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eNTERFACE'06
The SIMILAR NoE Summer Workshop
on Multimodal Interfaces
PARTICIPANT LIST
eNTERFACE '06
Summer Workshop
on Multimodal Interfaces
July 17- August 11, 2006
Centre for Advanced Academic Studies, Dubrovnik, Croatia
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Marcos Serrano
Yannis Stylianou
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Dimitrios Tzovaras
Pascale Woodruff
Goranka Zorić

LALE AKARUN
Computer Engineering Department
Boğaziçi University
80815, Bebek, İstanbul

EDUCATIONAL BACKGROUND

1992	Ph.D. in EE	Polytechnic University, Brooklyn, NY, USA
1986	M.S. in EE	Boğaziçi University, İstanbul, Turkey
1984	B.S. in EE	Boğaziçi University, İstanbul, Turkey

PROFESSIONAL EXPERIENCE

1995-2006 *Boğaziçi University, İstanbul*
Faculty member, CmpE Department (full professor since 2002)

1993-1995 *Boğaziçi University, İstanbul*
Assistant Professor, EE Department

1989-1992 *Polytechnic University, Brooklyn, NY*
Teaching Fellow, CS Department.

1984-1987 *Boğaziçi University, İstanbul*
Research and Teaching Assistant, EE Dept.

PERSONAL

Date of Birth : March 10th, 1962
Other Languages : German, Turkish
Memberships: IEEE Senior Member

RESEARCH INTERESTS

- Gesture recognition
- Face recognition
- 3D facial modelling, facial animation
- Quantization and dithering of color images.

RECENT PUBLICATIONS IN RELATED FIELDS

1. Arman Savran, Levent M. Arslan and Lale Akarun, "Speaker Independent 3D Face Synthesis Driven by Speech and Text", Signal Processing, accepted for publication.
2. L. Akarun, B. Gökberk, A.A. Salah, “3D face recognition for biometric applications”, European Signal Processing Conference, EUSIPCO, Antalya, September 2005.
3. O. Aran, C. Keskin, L. Akarun, “Sign Language Tutoring Tool”, European Signal Processing Conference, EUSIPCO Demonstration Session, Antalya, September 2005.
4. C. Keskin, O. Aran, L. Akarun, “Real-time gestural interface for generic applications”, European Signal Processing Conference, EUSIPCO Demonstration Session, Antalya, September 2005.
5. B. Gokberk, A.A. Salah, L. Akarun, “Rank-based decision fusion for 3D shape-based face recognition”, Audio- and Video-based Biometric Person Authentication (AVBPA), Terrytown, New York, July 2005.
6. A. Savran, L. Arslan, L. Akarun, “Speech Driven MPEG-4 facial animation for Turkish”, Proceedings SPECOM2004, St. Petersburg, September 2004.

7. M. O. İrfanoğlu, B. Gökberk, L. Akarun, “3D Shape-based Face Recognition using Automatically Registered Facial Surfaces”, Proceedings of the 17th International Conference on Pattern Recognition (ICPR2004), 2004, Cambridge.
8. B. Gökberk, L. Akarun, B. Aksan, “How to deceive a face recognizer?”, Proceedings of the Biometrics: Challenges arising from Theory to Practice Workshop (BCTP2004), 2004, Cambridge.
9. B. Gökberk, M.O. İrfanoğlu, L. Akarun, E. Alpaydın, “Optimal Gabor kernel location selection for face recognition”, Proc. ICIP, Barcelona, Spain, September 2003.
10. B. Gökberk, L. Akarun E. Alpaydın, “Selection of Kernel Location, Frequency, and Orientation Parameters of 2-D Gabor Wavelets for Face Recognition”, Perception, Vol.32, pp.1-1., 2003, Paris.
11. A. Erkan, C. Keskin, L. Akarun, “Real time hand tracking and 3D gesture recognition for interactive interfaces using HMM”, Proc. ICANN/ICONIP, pp. 567-570, İstanbul, June 2003.
12. Gökberk, B., L. Akarun, E. Alpaydın, “Feature selection for pose invariant face recognition,” Proc. ICPR 2002, Quebec City, Canada, August 2002.
13. A.A. Salah, E. Alpaydin, and L. Akarun, “A Selective Attention Based Method for Visual Pattern Recognition with application to handwritten digit recognition and face recognition”, IEEE Trans. Pattern Analysis and Machine Intelligence, vol 24, no.3, pp. 420-425, March 2002.
14. Z. Melek, L. Akarun, “Automated lip synchronized speech driven facial animation”, Proceedings IEEE Int. Conf. On Multimedia and Expo., July 2000, New York.
15. E. Demir, L. Akarun, E. Alpaydın, “Two-stage approach for pose-invariant face recognition”, Proceedings ICASSP 2000, June 2000, İstanbul, Turkey.

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Oya Aran

Curriculum Vitae

Date of Birth: December 20, 1978 (Turkey)

Academic Background

- **PhD student**(September, 2002 - present)
  Bogazici University, Department of Computer Engineering
  Supervisor: Prof. Dr. Lale Akarun
  Research areas: Hand Gesture Recognition, Sign Language Recognition
- **MS in Computer Engineering** (September, 2000 - July, 2002)
  Bogazici University
  Supervisor: Prof. Dr. Ethem Alpaydin
  Thesis : "Incremental Neural Network Construction Algorithms for Training MLPs"
- **BS in Computer Engineering** (September, 1996 - July, 2000)
  Bogazici University
  Supervisor: Prof. Dr. Lale Akarun
  Project: Multimedia Earthquake Education, A Game for Kids

Teaching Experience

- **Research and Teaching Assistant**, Bogazici University , TR
  Introduction to Computing (C, Pascal), Digital Design, Object Oriented Programming, Software Engineering, Human Computer Interaction

Industrial Experience

- **ALARKO A.S**. (January 2000 – October 2000)
- **KOC A.S**. (internship, July – August 1999)
- **ELIAR A.S.** (March 1997 – October 1997)

Publications

- Mehmet Emre Sargin, Ferda Ofli, Yelena Yasinnik, Oya Aran, Alexey Karpov, Stephen Wilson, Yucel Yemez, Engin Erzin and A. Murat Tekalp, "Combined Gesture-Speech Analysis and Synthesis", Proceedings of eNTERFACE 2005, Mons, Belgium
- Aran, O., Keskin, C., Akarun, L., "Sign Language Tutoring Tool", EUSIPCO, September 2005, Antalya, Turkey.
- Keskin, C., Aran, O., Akarun, L., "Real Time Gestural Interface For Generic Applications", EUSIPCO, September 2005, Antalya, Turkey.
- Aran, O., Alpaydin, E., "An Incremental Neural Network Construction Algorithm for Training Multilayer Perceptrons", ICANN, June 2003, Istanbul, Turkey.
- Aran, O., Incremental Neural Network Construction Algorithms for Training Multilayer Perceptrons, MS Thesis, Bogazici University, 2002

Workshops /Summer School Attended

- eNTERFACE'05, Mons, Belgium (June-August, 2005)
- MLSS'04, Berder Island, France (September, 2004)

Languages

- Turkish (native), English (fluent, TOEFL: 257), French (little), German (little)

İSMAİL ARI

Contact Information

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Personal Information

Date of Birth:	06.08.1983
City of Birth:	Adapazarı
Nationality:	Turkish

Education

2006, Istanbul:	Boğaziçi University, Faculty of Engineering, Computer Engineering Department, Senior Student. Language of Education: English
1999–2001, Bilecik:	Bilecik Science High School. Language of Education: Turkish
1998–1999, Kocaeli:	Kocaeli Körfez Science High School. Language of Education: Turkish
1994–1998, Bilecik:	Bilecik Anatolian High School (with English prep. class). Language of Education: English

Language

Fluent English (writing – reading – speaking)

Achievements

2001:	Turkey 318th in Turkish University Exam (ÖSS)
2005:	Turkey 348th in Turkish Master Education Exam (LES)

Computer Knowledge

Programming:	C, C++, Perl, Java, Assembly, CGI, ASP, MATLAB, SQL, OpenGL, Scheme, Prolog
Application Programs:	MS Office, Adobe Photoshop, Macromedia Dreamveawer, Adobe Premiere, Adobe After Effects, Ulead VideoEditor
Operating Systems :	Windows, Linux

Societies and Organizations

- 2005 Computer Engineering Department Student Representatives Vice-chair
- 2005 Engineering Faculty Student Representatives Member
- Boğaziçi University Folklore Club Dance Unit Membership (*"Semah–Doğu–Balkan" (March 2002)*, *"Gündönümü" (May 2002)*, *"Rengâhenk" (March 2003)*, *"Bahar" (May 2003)*, *"Yedi Diyar" (May 2004)*, *"Şenlik" (May 2005)* Dance–Music Performances; *"Düğün" (November 2005)* Dance–Theater)

Courses taken

- Introduction to Computer Engineering (including c programming lang.)
- Introduction to Object-Oriented Programming (including c++)
- Systems Programming (including Perl, CGI, Assembly, Linux, Unix)
- Data Structures and Algorithm Analysis in Java
- Digital Design
- Analysis of Algorithms
- Operating Systems
- Computer Organization
- Automata Theory
- Numerical Methods
- Introduction to Database Systems
- System Simulation
- Concept of Programming Languages
- Software Engineering
- Introduction to Artificial Intelligence
- Applied Fourier Analysis
- Introduction to Computer Graphics
- Image Processing

Working Experience

Boğaziçi University "Introduction to Computing" Course's Student Assistant

Position: Lab Lecturer, Field: Education, Period: Oct 2005 – still working, Address: Boğaziçi Üniversitesi 34342 Bebek/ İstanbul, Web: http://www.cmpe.boun.edu.tr/courses/cmpe150/fall2005

Sabancı Telekomünikasyon Hizmetleri A.Ş.

Position: Trainer, Field: NGN (Next Generation Networks), Period: July 2005 – August 2005, Address: Sabancı Center 4.Levent , Web: http://www.sabancitelekom.com

Boğaziçi University "Introduction to Computers" Course's Student Assistant

Position: Lab Lecturer, Field: Education, Period: Oct 2004 – June 2005, Address: Boğaziçi Üniversitesi 34342 Bebek/ İstanbul, Web: http://haydut.cmpe.boun.edu.tr/eng101/eng101.htm

Tekersan Jant Sanayi A.Ş.

Position: Trainer, Field: IT, Period: Aug 2004 – Sep 2004, Address: Paşalar Mevkii, Bayırköy/Bilecik PK:11120, Web: http://www.tekersan.com.tr/

Bilko Computer Control and Automation Co.

Position: Trainer, Field: Automation and Control, Period: June 2004 – July 2004, Address: Perpa Ticaret Merkezi B Blok Kat: 13 No: 2568, Web: http://www.bilko-automation.com

Web Pages Prepared:

http://bufk.boun.edu.tr	Bogazici University Folklore Club
http://www.cmpe.boun.edu.tr/~otk	Computer Engineering Student Represantatives
http://www.abfoods.com.tr	A.B. Foods

Interested Fields

Image Processing, Computer Graphics and Digital Signal Processing.

Hobbies

Dancing, computers, talking, reading, walking.

BARAKOS IOANNIS

Work address:
Informatics and Telematics Institute
Centre for Research and Technology Hellas
Augmented and Virtual Reality Laboratory
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Thessaloniki, Zip: 57001, P.O.Box 361
Tel: +30-2310-464160 (ext. 149)
Fax: +30-2310-464164
e-mail: barakos@iti.gr

Electrical and Computer Engineer

Date of birth: 25 May 1980

♦ Education

2003 - 2004	MSc in Internet Computing, Department of Electronic Engineering, Queen Mary, University of London, UK. Awarded with Distinction. MSc Project: "Intelligent Service Application Using Web and Fax Machines". Supervisor: Dr Eliane L Bodanese
2000 - 2003	BSc (Hons) in Internet Technology, Department of Electronic and Computer Engineering, University of Portsmouth, UK. BSc Final year project: "Linux Package Management Development"

♦ Research – Professional Experience

2006 -	Postgraduate Research Associate, Informatics and Telematics Institute / Centre for Research and Technology Hellas (ITI/CERTH).

♦ Foreign Languages

English	Perfect Knowledge.

♦ Technical Skills

Operating systems:	Windows 95/98/00/XP, Linux, UNIX (HP/UX)
Programming languages:	Java (J2EE, J2ME), C, C++, Visual C++, Perl (CGI), Python, ADA95
Software:	Netbeans 4, Microsoft Visual Studio 6, Microsoft Visual Studio.NET, Borland C++ Builder 5, MS Office 2000/XP, JADE, (my)SQL

♦ Research Interests

Virtual Reality, Human Computer Interaction, Gesture Recognition, Computer Vision, Multimedia.

Alexandre BENOIT
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phD student in Signal and Image processing

Work Experience

2003-2006 **phD studies at the LIS (Image and Signal Processing Lab.) - INPG-Grenoble:**
↳Main research interest : Global head motion detection and interpretation.
In a more general way , motion detection and analysis with the help of the human visual system modelling.

- ***Skills*** : biological modelling (retina, cortex), real time processing, c/c++/matlab coding.
- ***Related activities***: participations to ENTERFACE, the workshop of the SIMILAR network of excellence : european team research (I worked on the project: driver simulator for hypovigilance detection) ; participations to national and international conferences.

2002-2003 **Engineering internships on acoustics analysis and 3D rendering in the CSTB-Grenoble:**
↳Signal processing and real time processing for holophony audio systems.
↳Measure automation processes.

2000 **Internship at the Material and Process engineering Lab. LMGP – Grenoble:**
↳Automation for silicon substrate layers control for MOCVD process.

Skills Summary

- **Research interest**
  ↳Image and signal processing, statistics, real time processing, Matlab/C/C++ programming
  ↳Particular skills : human visual system modelling : retina filter/velocity computing and high level analysis inspired from the visual cortex modelling.
- **Engineering skills** : Electronics, mecanics, chemistry, management.
- **Languages** ↳French: mother toungue.
  ↳English: fluent spoken and written.
  ↳German: bases.

Higher Education and Diplomas

2003-2006	phD studies in image and signal processing LIS - INPG-Grenoble
2002-2003	master diploma in image and signal processing INPG-Grenoble
2002-2003	engineer diploma in industrial computing and signal processing Polytech'Grenoble
1998-2000	high level technical studies diploma on physics and measurments - UJF-Grenoble
1998	bac S (A level aquivalent) scientific option.

Activities and Interest

- **Sports :** windsurf , in line skates, snowboard, hicking , martial arts.
- **Cultural activities :** theatre, cinema, music.
- **Other :** 3D modelling, programming, design.

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EDUCATION

2005 UNIVERSITY OF PLYMOUTH (U.K.) : **PH.D.** candidate
computing, communications and electronics

1997-2001 MCGILL UNIVERSITY : **MA**
music technology

1997 COLLÈGE INTER-DEC : **AEC**
3D animation and multimedia

1993-96 UNIVERSITÉ DU QUÉBEC À MONTRÉAL
français écrit (langue seconde), until advanced level II

1990-92 YORK UNIVERSITY (Toronto) : **MFA**
photography, installation, music and psychoacoustics

1989-90 UNIVERSITY OF GUELPH : **BA** (with distinction)
art history, theory and studio

1983-88 YORK UNIVERSITY (Toronto)
studies in music and visual arts

1983 ROYAL CONSERVATORY OF MUSIC (Toronto)
studies in electroacoustic music

1982-85 ONTARIO COLLEGE OF ART : **AOCA** diploma
experimental arts

1980 UNIVERSITY OF ROCHESTER (Eastman School of Music)
sound recording technology summer workshop

E M P L O Y M E N T

2004-2005 CONCORDIA UNIVERSITY - FACULTY OF FINE ARTS
lecturer in computation arts

2005 BATH SPA UNIVERSITY (UK) - SCHOOL OF MUSIC
lecturer in creative music technology

1999-2004 MCGILL UNIVERSITY - FACULTY OF MUSIC
lecturer in music technology

2001-2002 MCGILL UNIVERSITY – WEB COMMUNICATIONS GROUP
system administrator and programmer

2000-2002 GALERIE OBORO
research and development of new technologies

2000-2001 MCGILL UNIVERSITY - CANARIE ANAST PROGRAMME
researcher - “McGill-Calgary Advanced Learnware Project”
music.mcgill.ca/~brouse/research/canarie

1999 CCA (CENTRE CANADIEN D’ARCHITECTURE) - PUBLICATIONS
implementation of web site “5 Architects” : cca.qc.ca/installations

1996 CENTRE INTERCULTUREL STRATHEARN
technical director - theatre and gallery spaces

1995 CENTRE INTERCULTUREL STRATHEARN
production assistant and technician

1991-92 YORK UNIVERSITY, FACULTY OF FINE ARTS
instructor - matrix studio

1990-91 YORK UNIVERSITY, FACULTY OF FINE ARTS
teaching assistant- sculpture

Pavel Campr

Curriculum Vitae

Personal Details

Name	Pavel
Surname	Campr
Date of Birth	9th October 1981
Nationality	Czech

Contact

Address	Department of Cybernetics Faculty of Applied Sciences University of West Bohemia in Pilsen Univerzitní street 8 306 14 Pilsen, Czech Republic
Phone	+420 604 315 777
E-mail	pavel@campr.cz

Education

2005-present	**PhD student** University of West Bohemia in Pilsen, Czech Republic Research areas: gesture and sign language recognition
2000-2005	**MS in Cybernetics** University of West Bohemia in Pilsen, Czech Republic specialization: Artificial Intelligence thesis: Generating 3D models of human tissues from Computed Tomography data
2004/2005 (6 months)	**student exchange programme "Erasmus"** Technological and Educational Institute of Crete, Heraklion, Greece attending lessons, work on thesis

Languages

Czech	native
Slovakian	native
English	advanced (B2)
German	pre-intermediate

Work Experience

2005-present	University of West Bohemia in Pilsen teaching assistant (Control Theory)
2005-present	self-employed programmer
2004-present	www.djshop.cz webmaster, author of business and information system
2003-2005	Webstart s.r.o., Prague design & development of internet applications

Skills

signal processing
modelling, simulation and control of dynamical systems
design of information and control systems
artificial intelligence: digitalized voice processing, dialogue systems
digitalized image processing

information technologies

programming languages	C, C++, C#, PHP, Java, Matlab + Simulink, Python, ...
database systems	MS Access, MySQL
markup languages	XHTML, CSS, VoiceXML

development of digital image processing applications (C, C++, OpenCV, Matlab)
development of internet applications (XHTML, CSS, JavaScript, PHP, MySQL)

general skills in computer networks, computer graphics, artificial intelligence, programming, hardware and electronics

Hobbies

travelling (exploring foreign countries and cultures, hiking)
sports (squash, climbing, bike, swimming, skiing...)
music (listening, guitar)
literature

References

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Pilsen, 10th July 2006

CURRICULUM VITAE

PERSONAL INFORMATION

Name	**ALEKSANDRA ČEREKOVIĆ**
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E-mail	**aleksandra.cerekovic@fer.hr**
Nationality	Croatian
Date of birth	25. 4. 1982

EDUCATION AND TRAINING

• Name and type of organisation providing education and training	**Faculty of Electrical Engineering and Computing, Department of Telecomunications** **Diploma thesis supervisor, Igor S. Pandzic, PhD.**
• Principal subjects/occupational skills covered	Experience in projects worked on faculty: - **LipSync** – module for Speech recognition included in library Lipsync for automatic lip synchronization of virtual humans. Module consists of generation of MFCC coeficients needed for train of neural networks and later recognition, and of neural networks that do classification from given input into related viseme class. - **ENA** – Next Generaton ECA – project is in process of development between Kyoto University and Faculty of Electrical Engineering and Computing in Zagreb. My application for 1. project on eNTERFACE '06 Workshop is a result of this collaboration. I am interested in continuing of my education as Scientific researcher in this area. Involvement in projects not related to faculty: - projects of student's organization BEST – 3 Job Fairs, 2 cultural exchanges, 2 educational and 1 competition event. Five projects included participation of international students. Therefore I have experience in team-working and working in multicultural environments, also organizational and social skills.
• Title of qualification awarded	Undergraduate Student

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE	**CROATIAN**		
OTHER LANGUAGES			
	ENGLISH	**GERMAN**	**ITALIAN**
• Reading skills	excellent	good	good
• Writing skills	excellent	good	good
• Verbal skills	excellent	good	basic

eNTERFACE '06 Prefered project to work on:

1. **An Agent Based Multicultural User Interface in a Customer Service Application** (Coordinator: Hung-Hsuan Huang, Kyoto University, Japan; Advisors: Prof. Toyoaki Nishida, Kyoto University, Japan, Prof. Yukiko Nakano, Tokyo University of Agriculture and Technology, Japan, Prof. Igor Pandzic, University of Zagreb, Croatia). To improve communication of embodied conversational agent (ECA) systems with their human users, the importance of their capability to cover the cultural differences emerged. This project aims to explore the possibility of rapidly building multicultural ECA interfaces for customer service applications with a common framework connecting their functional blocks.

This project is part of "Next generation ECA" project between "Kyoto University" and "Faculty of Electrical Engineering and Computing" within my assistant professor , Igor S. Pandzic, PhD, is one of the leaders. I am involved in project as undergraduate student with tendency to continue research work in this area.

List of skills to offer for this project:

Three months ago, when I accepted proposal of my diploma thesis supervisor, prof. Igor S. Pandzic, to work on NG-ECA project, I started to research State of the Art of embodied conversational agents (ECAs) by reading scientific articles and working with Kyoto University in parallel.
Now I am collaborating with Hung-Hsuan Huang, coordinator of this project, on development of OpenAir specification that will be used as primary protocol for communication between modules in the ECA system.

Guillaume Chanel
Computer Science Department - University of Geneva
24 rue du Général-Dufour
1211 Geneva 4
Switzerland
Tel: +41 (22) 379 76 35
E-mail : Guillaume.Chanel@cui.unige.ch

Research interest

My research interest is to detect emotional states from recordings of EEGs and other physiological signals. This research can find several applications in fields such as human-computer interfaces, brain-computer interfaces or entertainment.

Report of my current work

Guillaume Chanel, Julien Kronegg, Didier Grandjean and Thierry Pun, Emotion Assessment: Arousal Evaluation Using EEG's and Peripheral Physiological Signals. Computer Vision and Multimedia Laboratory, Computing Centre, University of Geneva, December 15 2005.

Research experience

2005 — **Enterface 2005 participant,** project "Multimodal Focus Attention Detection in an Augmented Driver Simulator"

2002 - 2003 — **Research fellow in combinatorial optimisation**, collaboration between the company SABATE and the laboratory LERIA

- Optimisation of an automatic system to allow for corks classification.
- Study of a decision help tool to improve the process scheduling. Two objectives: decrease delivery delays and stocks.
- *Tools / skills:* metaheuristics, CSOP, Visual C++.

2002 — **DEA (master equivalent) in vision** at LIRMM (computing, robotic and microelectronic laboratory of Montpellier).
Omnidirectional image analysis to obtain the camera displacement.
Tools / skills: signal processing, Lucas-Kanade algorithm, Matlab.

Education

2001 - 2002 — Doctoral school of Montpellier II. DEA SYAM (Automatic Systems and Microelectronics).
1999 - 2002 — Engineering degree in computing and robotics. IMERIR. Perpignan (France).
1997 - 1999 — University of technology in computing and industrial systems. Bourg en Bresse (France).

Computing skills

AI: metaheuristics, neural networks, modelling (CSP, graphs…)
Industrial computing: Petri nets, GRAFCET, 68xxx family
Operating systems: DOS**,** Windows 9X/NT, UNIX
Languages:, C/C++, Pascal, SQL, LISP, Assembler
Tools: VC++, Delphi, Windev, Access, Matlab
API SDK: Win32, MFC, DirectX, OpenGL
Conception methods: UML / OMT, SART, Merise

Language

French — Mother tongue
English — Intermediate written and spoken

List of 3 preferred projects

Here comes the list of projects that seem relevant to me by decreasing order of interest:

- **Project 7: Emotion Detection in the Loop from Brain Signals and Facial Images**

My interest in this project concerns multimodal emotion recognition. It is well known that emotion can be expressed via several channels such as facial expressions, voice, gestures but also physiological signals. Physiological signals can be divided in two categories: from the peripheral nervous system (heart rate, galvanic skin response, etc.) or from the central nervous system (cerebral activity recordable by EEGs or fNIRS). Using both of these physiological signals as an additional modality in a multimodal emotion recognition system will likely improve performance. For example, systems using facial images for emotion detection have difficulties to differentiate between “sad” and “neutral” expressions; arousal assessment from physiological signals (see “report of my current work” section of the CV) could help to solve this problem.

Skills: signal processing (especially for EEGs), Matlab.

- **Project 9: Multimodal Driving simulator**

Attention is strongly linked to emotions. For example, emotions such as “boredom” or “interest” gives direct information about attention. Arousal, a basic component of emotions, is also directly linked to the notion of fatigue or excitation. For these reasons, detection of emotions from physiological signals can be useful to infer user’s attentional state.

Skills: signal processing (especially for EEGs), Matlab.

- **Project 6: An instrument of sound and visual creation driven by biological signals**

It is clear that music or sounds elicits particular emotions in the listener and that a composer tries to put particular kinds of emotion in his work. From this point of view, detecting emotions from biological signals and using this information to influence sound generation can be interesting. The multimodal aspect of this project is also of great interest to me.

Skills: signal processing (especially for EEGs), Matlab, music knowledge and interest.

Koray Çiftçi

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❖ Education

[2002 – …..]	Institute of Biomedical Engineering, Boğaziçi University
Phd candidate	
[1996 – 2001]	Institute of Biomedical Engineering, Boğaziçi University
M.S. degree	
Thesis	A multichannel telemetry system for the acquisition of respiratory sounds
[1992 – 1996]	Boğazici University, Electrical & Electronics Engineering,
B.S degree	
Graduation Project	Detection of aortic stenosis by artificial neural networks
[1989 – 1992]	İzmir Fen Lisesi

❖ Work Experience

[08/1996 - 05/1999] and [10/2000 - …..]	Research Assistant, Institute of Biomedical Engineering, Boğaziçi University
[07/1999 – 09/2000]	Research and development engineer, SAR Elektronik A.Ş
Summer 1995, Internship	Vestel Elektronik A.Ş.
Summer 1994, Internship	EKA Elektronik A.Ş.

❖ Computer Skills

Programming Language	C
Package Programs	Matlab, PSpice, MSOffice
Operating Systems	Windows, Macintosh

❖ Language Proficiency

Good level of English

❖ Selected Publications

Koray Çiftçi, Yasemin P. Kahya, Bülent Sankur, Ata Akın, "Complexity analysis of functional near infrared spectroscopy signals," *European Signal Processing Conference*, Istanbul, Turkey, September1-4, 2005.

Kubilay Aydın, Koray Çiftçi, Ege Terzibaşoğlu, Mehmed Özkan, Serra Sencer, Özenç Minareci, "Quantitative proton MR spectroscopy findings of cortical reorganization in the auditory cortex of musicians," *American Journal of Neuroradiology* , vol. 26, pp. 128-136, 2005.

Koray Çiftçi, Yasemin P. Kahya, "Estimation of airflow from respiratory sounds," *28th Annual Conference of the International Lung Sounds Association*, Cancun, Mexico, September 15-16, 2003.

Koray Çiftçi, Mete Yeginer, Yasemin P. Kahya, "A Multi-Channel Telemetry System for the Acquisition of Respiratory Sounds," *2nd European Medical & Biological Engineering Conference*, Vienna, Austria, 4-8 December, 2002.

- The project to work on in eNTERFACE 2006 : Emotion Detection in the Loop from Brain Signals and Facial Images
- fNIRS data acquisition and statistical signal processing algorithms in the way to detect emotion from fNIRS signals are offered.

Dr. YANNIS DAMOUSIS

ELECTRICAL AND COMPUTER ENGINEER, PhD

E-mail: damousis@iti.gr
WEB : http://server-5.iti.gr/damousis/public_html/index.htm

♦ EDUCATION

1997-2003	Ph.D. Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki. Subject: Genetic Algorithm Development and Application to Power Systems Optimization Problems.
1991-1997	Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki. Telecommunications Division.

♦ RESEARCH – WORKING EXPERIENCE

2005 – CERTH/ITI	"HUMABIO: **Hu**man **M**onitoring and **A**uthentication using **B**iodynamic **I**ndicators and Behavi**o**ural Analysis" http://www.iti.gr/db.php/en/projects/HUMABIO.html Author, project manager
2004 – CERTH/ITI	"SENSATION: Advanced Sensor Development for Attention, Stress, Vigilance and Sleep / wakefulness Monitoring" http://www.sensation-eu.org Project manager - Researcher
2001-2003 Aristotle University of Thessaloniki	"MORE CARE: More Advanced Control Advice for Secure Operation of Isolated Power Systems with Increased Renewable Energy Penetration and Storage", Contract No. ERK5-CT1999-00019, funded by EU. Researcher-developer: Development of advanced genetic algorithms
2000-2001 1997-1998 Aristotle University of Thessaloniki	"CARE: Advanced Control Device for Power Systems with Large Scale Integration of Renewable Energy Sources" funded by EU. Researcher-programmer: Development of an expert system (Genetic Fuzzy System) for wind speed and power forecasting at wind farms and genetic algorithms for the optimization of economic dispatching in the electrical grid of the Crete island.

♦ SCIENTIFIC INTERESTS

Genetic algorithms, fuzzy logic, expert systems, artificial intelligence, optimization methods.

♦ PUBLICATIONS

5 publications in international scientific journals and several presentations at international conferences
(see http://server-5.iti.gr/damousis/public_html/PUBLICATIONS.htm)

Benoît Deville
Computer Science Department - University of Geneva
24 rue du Général-Dufour
1211 Geneva 4
Switzerland
Tel: +41 (22) 379 76 41
E-mail : Benoit.Deville@cui.unige.ch

Research interest

My research interest lies in image processing. My current work concerns segmentation and simplification of images in order to sonify them. The objective is to make visually impaired people "see" these images using other senses. This research could be used to help the displacements of visually impaired people , or to share visual art with them.

Research experience

2005 **DESS (master equivalent) in computer imaging** at IRCAD
Software development: an interactive 3D segmentation tool using deformable simplex.
Tools / skills: deformable models, simplex meshes, C++, Eclipse, SubVersion.

2003 **DEA (master equivalent) in computer science** at LSIIT (computer science, signal processing, automatics and remote sensing laboratory of Strasbourg).
Study of the evolution of multiple sclerosis lesions on 3D MRI sequences, using mathematical morphology tools.
Tools / skills: mathematical morphology, C++, ViM.

Education

2004 – 2005 DESS RSI (Networks, Systems, Images). Reims (France).
2002 – 2003 DEA Informatique (Computer science). Strasbourg (France).
1998 – 2002 Computer science studies. Strasbourg (France).

Computing skills

Image processing: mathematical morphology, deformable models, mean shift,...
Operating systems: Linux**,** Windows, Unix
Languages: C/C++, Pascal, Java
Tools: VC++, Eclipse, Matlab
API SDK: DirectX, OpenGL, ITK, WxWidgets

Language

French Native language
English Good writing and spoking
German Basic knowledge

List of 3 preferred projects

Here are the 3 projects I am mostly interested in, by decreasing order of interest:

- **Project 2: Multimodal tools and interfaces for the intercommunication between visually impaired and "deaf and mute" people**

This project interests me because one of its objectives is to help visually impaired people, as in my doctoral research project. The information we will have to convey from a deaf and mute person to a visually impaired one is gestural, i.e. visual. This information will be converted so that a visually impaired person can understand it (by touch or by hearing, for example). This needs a visual analysis stage. The image sequence could be simplified in order to obtain an outline of the gestures and attitudes, using techniques like object-tracking, skeletonization, etc. This outline would then be compared to a database of known gestures.
This part of the project would also be useful to enhance the communication between deaf and mute people and people who do not know the sign language.

Skills: image processing, computer programming (Matlab, C++, Java), currently working on a project for visually impaired people.

- **Project 3: Sign Language Tutoring Tool**

This project seems quite similar to the part of the project number 2 I am interested in. The main difference resides in the fact that the video analysis and the comparison to the knowledge database have to be performed in real-time: correcting the student a little bit late would lead to misunderstanding and hamper efficient learning.

Skills: image processing, computer programming (Matlab, C++, Java), no knowledge in sign language (would be a good person to test this tool).

- **Project 7: Emotion Detection in the Loop from Brain Signals and Facial Images**

Face is one of the media to express emotions (e.g., the mime). Common attitudes and movements are easily identifiable by a human on the moving parts of the face (mouth, cheeks, eyes, eyebrows, forehead). Analyzing the movements of characteristic points on the face can lead to a better decision between different possible emotions.
I think it should be noted down that it is easy to simulate emotions on the face. That's why physiological signals are really important.

Skills: image processing, computer programming (Matlab, C++, Java).

Ognjen Dobrijević, Curriculum Vitae

PERSONAL INFORMATION

Name	**Ognjen Dobrijević**
Work address	Department of Telecommunications, Faculty of Electrical Engineering and Computing, Unska 3, HR-10000 Zagreb, Croatia
Telephone	Fixed: +385 (0)1 612 97 38
Fax	Fixed: +385 (0)1 612 98 32
E-mail, Web address	ognjen.dobrijevic@fer.hr, http://www.tel.fer.hr/odobrijevic
Date of birth	25.02.1981.

WORK EXPERIENCE

Dates (from – to)	From September 2004 to present
Name of employer	Faculty of Electrical Engineering and Computing, University of Zagreb
Occupation or position held	Research Assistant
Main activities and responsibilities	Involvement in Research and Scientific Projects • Scientific Project "Mobility of users and services in new generation networks" supported by Croatian Ministry of Science, Education and Sports; 2004 - 2005 • Research Project "Network Virtual Reality in IMS" in collaboration with the Ericsson Nikola Tesla company from Zagreb; 2005 - present Teaching • Multimedia Communications • Fundamentals of Virtual Environments (2005) • Virtual Environments (2004) • Mobility in Networks • Telematic Services

OTHER WORK EXPERIENCE

Dates (from – to)	From July to September 2003
Event	The 3rd Summer Camp SC 2003 (workshop organized in the collaboration between the Faculty of Electrical Engineering and Computing and the Research Department of the Ericsson Nikola Tesla company)
Project assignment	3D representation of hierarchical structure specified with geographical coordinates (which resulted in the article, see publications)
Dates (from – to)	From July to September 2002
Event	The 2nd Summer Camp SC 2002 (workshop organized in the collaboration between the Research Department of the Ericsson Nikola Tesla company and the Faculty of Electrical Engineering and Computing)
Project assignment	Overview of traffic generators, monitors and analyzers in IPv6 networks

EDUCATION

Date	From November 2004 to present
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Electrical Engineering and Computing, University of Zagreb
Title or qualification awarded	Working towards Ph.D. in Electrical Engineering
Date	From October 1999 to June 2004
Place of education	Zagreb, Croatia
Name and type of organisation providing education	Faculty of Electrical Engineering and Computing, University of Zagreb
Title or qualification awarded	Dipl.-Ing. degree in Electrical Engineering (9 semesters)

PUBLICATIONS	Article: "3D Visualization of the Geographical & Organizational Structure of the Grid", MELECON 2004, Dubrovnik, Croatia, 05/2004 Article: "Open Source Tools for Multimedia Desktop Conferencing and Media Streaming over IPv6: Comparison Criteria and Survey", MIPRO 2005, Opatija, Croatia, 06/2005

PERSONAL SKILLS

Mother tongue	Croatian

Other languages

Language	English	German
Speaking	Excellent	Basic
Writing	Excellent	Good
Understanding (listening and reading)	Excellent	Good

COMPUTER SKILLS	Java programming Multimedia communications TCP/IP and Network administration Linux OS administration

PREFERRED PROJECT TO WORK ON	5. Introducing Network-Awareness for Networked Multimedia and Multi-modal Applications

SKILLS TO OFFER TO THE PROJECT	Knowledge of Java programming Experience with SIP signalling protocol Experience with multimedia applications and 3D virtual environments Experience with Linux OS administration

POSSIBILITY TO BRING A LAPTOP	Yes

CV

Name : Boris DOVAL
Address : LIMSI-CNRS, BP 133, 91403 ORSAY Cedex
Tel : +33 / 1 69 85 81 19
Fax : +33 / 1 69 85 80 88
Email : boris.doval@limsi.fr

Current position

- Associate professor, Université Panthéon-Assas, Paris II, FRANCE
- Researcher, LIMSI-CNRS, Orsay, FRANCE

Diplomas

1994 Phd thesis in computer science, University PARIS VI, France
Subject : Fundamental frequency estimation of sound signals
1989 DEA IARFAG, PARIS VI
Master in artificial intelligence, pattern matching, algorithmics and graphics
1987 Engineer from École CENTRALE de PARIS

Research

- Topics : Speech and singing, voice source analysis, glottal flow modelisation, voice quality
- Author or co-author of 7 journal papers or chapters in books, about 20 papers in international conference proceedings, 1 patent
- co-organizer of the VOQUAL'03 ISCA workshop and editor of its proceedings
- Reviewer for Speech Communication, JASA, Acta Acustica

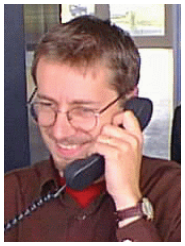
Teaching

- Speech analysis and synthesis
- Signal processing
- Pattern recognition
- Computer science (algorithmics, languages, databases, web)

Music

2003- Pianist and leader of the AOC jazz quartet
1997-2003 Pianist of the "Little Big Band" at the Souillac jazz festival.
1995-2003 Choir tenor at the "Choeur de Chambre de la Cité"
1989-1993 Music writing class (harmony, counterpoint, fugue) at the CNSMDP (Conservatoire National Supérieur de Musique et de Danse de Paris)

THIERRY DUTOIT



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Web : http://tcts.fms.ac.be/~dutoit

Belgian.
Born on March, 7th, 1966, Beloeil (Belgique).
Married, two children.

Current position : Full professor at the Faculté Polytechnique de Mons (Belgium),
TCTS labs (head : Prof. J. Hancq), since 2002.
Visiting professor in several European universities or enginnering schools (EPFL – Univ. Lille, Valenciennes, Orléans)

DIPLOMAS

Electrical engineer from the Faculte Polytechnique de Mons in June 1988.
PhD from the Faculté Polytechnique de Mons, in December 1993.

RESEARCH ACTIVITIES

Main research activity in the areas of :

1. Speech Processing (PhD thesis, many publications and communications);
2. Biomedical Signal Processing.

Member of the ISCA (European Association for Speech Communication).
Member of the IEEE Signal Processing and Biomedical Signal Processing societies.
Associate Editor of the IEEE Transactions on Audio and Speech Engineering.

PostDoctoral consultant for AT&T Research Labs, Florham Park, NJ, from July 1996 to August 1997.

Chairperson for a large number of international conferences on speech processing (*Eurospeech, ICSLP, IEEE Workshops, etc.*).

Reviewer for the several international magazines (*Speech Communication, Journal of the Acoustical Society of America, IEEE Trans on Speech and Audio, Signal Processing, etc.*).

Invited lecturer in several workshops and international conferences.

Author of 2 books on speech processing, editor of the eNTERFACE'05 proceedings.

Author or co-author of 15 journal papers/chapters in books, and of more than 60 papers in international conference proceedings.

Author of 4 patents (B, EU, US).

Coordinator of the international MBROLA speech synthesis project
(http://tcts.fpms.ac.be/synthesis/mbrola)

Yohann FABRE

24 ans
Téléphone : 0622878706

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59310 Auchy les Orchies
France

Objectifs

Recherche de stage en ingienerie des systemes image et son

Formation

Septembre 2004 à aujourd'hui — **Université de Valenciennes et du Hainaut Cambresis**
Master Audiovisuel & Multimédia option ISIS (Ingenierie des Systemes Image et Son)

Septembre 2002 Juin 2004 — **Université de Valenciennes et du Hainaut Cambresis**
Licence Audiovisuel & Multimedia (3ème année)

Septembre 1999 Juin 2002 — **Université de Valenciennes et du Hainaut Cambresis**
DUT GEII (Génie Electrique et Informatique Industrielle)
Spécialisation : Automatisme et Système

Septembre 1998 Juin 1999 — **Lycée Ernest Coutaux (St Amand les Eaux)**
Baccalauréat Scientifique option Technologie Industrielle

Expérience

Janvier 2004 Février 2004 — **MJC Orchies**
Stagiaire
Mission : Enregistrements de groupes régionaux. Création de sites internet

Juillet 2003 Aout 2003 — **Clinique Lille-Sud**
Archiviste
Mission : Reclassement et repérage des archives de la Clinique Lille-Sud

Mai 2001 Aout 2002 — **RxTx**
Stagiaire
Mission : 2 stages d'été + quelques heures par semaine sur la création d'un système de mesure.

Audiovisuel & Informatique

Logiciels : Protools, Photoshop, 3DSmax, Première,
Langages : C, C++, Java, UML, Html, Php, MySql, 3DSmax
Connaissances : Compression, Traitement du son, traitement des images

Langues

Anglais Oral : Scolaire Ecrit : Scolaire

Divers

Musique
Enregistrements et sonorisation de groupes amateurs
Musicien au sein de l'harmonie de Nomain et de plusieurs groupes amateurs.

Permis B

Fanard François-Xavier

Electromechanical Engineer, Ph.D. student
Born on July 3rd, 1981
Belgian, single

Av. Wellington, 39
1420 Braine L'Alleud, Belgium
+32 (0) 2 387 48 08
fanard@tele.ucl.ac.be

General description

I received the Electromechanical Engineering degree from the *Université catholique de Louvain* (UCL), Louvain-la-Neuve (Belgium) in June 2004. In october 2004, I joined the Communication and remote sensing laboratory (TELE) at the *Université catholique de Louvain* as Walloon Region funded researcher. I am also pursuing a Ph.D. degree on the topic of "Multimodal Facial Animation".

My research interests are in the fields of facial synthesis using MPEG4 facial animation standard and MPEG4 AVC video compression.

Skills

As I mainly work on facial synthesis, I have developped several tools to animate virtual faces based on the the facial animation part of the MPEG4 standard. I also made an extended study about emotions and I actually work on achieving a dynamic and realistic framework modeling their interactions with speech.

Moreover, thanks to my last year final work and my present collaboration with NeuroTV (partner company of the Walloon Region fund), I am very familiar with image (JPEG2000) and video (MPEG4 AVC) compression techniques.

I also have a very good knowledge of programming languages such as C/C++ and Python. I can easily bring my laptop with the required developping tools.

Finally, I also consider myself as a pleasant team partner with good communication skills. I really appreciate sharing my ideas and put them together with other project partners ideas in order to achieve a common goal.

Recent achievements

- "From feature detection to facial expression recognition : an integrated probabilistic approach", submitted for publication in the *7th international workshop on image analysis for multimedia interactive services (WIAMIS 2006)*, Incheon, South-Korea.
- "Statistical study for realistic MPEG-4 facial synthesis", submitted in the *11th international conference speech and computer (SPECOM 2006)*, St-Petersburg, Russia.

Projects interest

I selected the following projects I am interested to work on :

1. Sign Language Tutoring Tool
2. Multimodal Driving Simulator
3. Multimodal Character Morphing

Jehan-Julien FILATRIAU – research assistant - PhD student
Communications and Remote Sensing Lab
Université catholique de Louvain (UCL), Belgium
filatriau@tele.ucl.ac.be

Date of birth: 02/01/1980
Nationality: French

EDUCATION

2004-now: PhD student at Université Catholique de Louvain, Belgium (Faculty of Engineering) on *"Gestural control of sonic textures synthesis*". Supervisor: Pr. B. Macq (UCL) and Pr.D. Arfib (LMA-CNRS, Marseille).

2003-2004: DEA (master) of Acoustics at Aix-Marseille II University.

1997-2002: ENIC Telecom Lille I (French Engineering School) with specialization in Signal and Image Processing.

PROFESSIONNAL EXPERIENCE

October 2004–now : research assistant at the Communications and Remote Sensing Lab (Université catholique de Louvain, Louvain la Neuve, Belgium)

- PhD student on "*Gestural control of sonic textures synthesis*"
- TIFANIS project (European co-operation project)
- Project leader at Enterface '05 (2005 SIMILAR Summer workshop on multimodal interfaces)

2004 *(6 months*): master thesis at CNRS-LMA (Laboratoire de Mécanique et d'Acoustique, Marseille, France), Computer Music team, supervisor: Pr. D. Arfib. *"Design of a sonic textures synthesis instrument driven by an advanced gestural control".*

2003 *(6 months):* training period at LIAM (Laboratoire d'Informatique, Acoustique et Musique, Université de Montréal, Canada), Supervisor Dr C. Traube. *"Relation between acoustics, timbre and instrumental gesture applied to the flute "*.

2002 *(8 months)*: training period – Alterface (Louvain la Neuve, Belgium). *"Integration of sound processing functions in a mixed-reality application*"

1997-2001: 7 other three-months training periods (engineering school) in the field of network engineering in France and Portugal.

PUBLICATIONS

- Filatriau J-J, Arfib D., "*Instrumental gestures and sonic textures*"**,** in Proceedings of the Sound and Music Computing International Conference (SMC'05), November 24-26 2005, Salerno, Italy, 2005.
- Arslan, B., Brouse, A., Castet, J., Filatriau, J.J., Lehembre, R., Noirhomme, Q., Simon, C., *"From Biological signals to music"*, In Proceedings of the 2nd International Conference on Enactive Interfaces (Enactive05), Genoa, Italy, 2005.
- Arslan B., Brouse A., Castet J., Filatriau J.J., Lehembre R., Noirhomme Q., Simon C*., "A biologically-driven musical instrument"*, In Proceedings of the 1st summer workshop on multimodal interfaces (eNTERFACE05), Mons, Belgium, 2005, pp.35-45.
- Arfib D., Couturier J-M, Filatriau J-J. *"Some experiments in the gestural control of synthesized sonic textures",* in LNCS/LNAI Proceedings of International Gesture Workshop., Springer Verlag (ed.), 2005.

SKILLS and INTERESTS

Programming: C/C++, Matlab, Max-MSP-Jitter, CSound.
Languages: French (mother tongue), English (fluent), Spanish (basic).
Music: piano, accordion, bass guitar. Concerts with several pop music bands.
Other: sport (running, squash, mountain hiking), cinema, traveling

Kosta Gaitanis

Civil Engineer, PhD student

Av. Alfred Giron, 5
1050 Brussels, Belgium
+32 (0) 485/345.313
Born on May 30th, 1981
Greek, single
gaitanis@tele.ucl.ac.be
http://www.tele.ucl.ac.be/~gaitanis

Kosta Gaitanis was born in Athens (Greece) in 1981. He received the Electro-mechanical Engineering degree from the Université catholique de Louvain (UCL), Louvain-la-Neuve (Belgium) in June 2004.

Since October 2004, he is a Ph.D. student on the topic of "Group behavior recognition using Dynamic Bayesian Networks" supervised by Macq Benoit (UCL-TELE).

His research interests are in the fields of Dynamic Bayesian Networks, Rao-Blackwellized Particle filter, learning with DBNs, plan recognition on coordinated multi-agent systems.

The projects I'm interested to work on :

1. Realtime and Accurate Control of Expression in Singing Synthesis
2. Multimodal tools and interfaces for the intercommunication between visually impaired and "deaf and mute" people
3. Multimodal Driving Simulator

Skills :

I have an extended knowledge on probabilistic belief networks and can quickly develop new models. My research has pushed me to create many tools that can be used for fast creation of any Bayesian network, learn the parameters involved and finally perform inference on it.

During my research I also developed an extension of the Hierarchical HMM for use in multi-agent systems that can be used to perform multi-modal data fusion. Such an approach, analyzes data from each modality both individually and at coordination with the other modalities.

I believe that I can offer the possibility to coordinate in time and space all the signals needed for a project, in order to obtain a coherent output that takes account for observation errors, modelization errors as well as time modelization.

I'm very familiar with C++ and Python programming languages and with MatLAB. I have the possibility to bring a laptop.

Recent achievements :

"Modelization of Limb Coordination for Human Action Detection", submitted for publication in the *IEEE International Conference on Image Processing* , submitted in January 2006.

http://www.tele.ucl.ac.be/~gaitanis/publications/ICIP-2006.pdf

OpenBayes :

I'm currently one of the main developers of OpenBayes for Python. The idea of OpenBayes is to transfer the well known BNT library from MatLAB to a real programming language. More information can be found at http://www.cs.ubc.ca/~murphyk/OpenBayes/index.html, or by googling 'OpenBayes'

More information can be found at my personal web page: http://www.tele.ucl.ac.be/~gaitanis

Curriculum Vitae

Name	André Holzapfel
Adress	Andromachis 1 71414 Gazi Iraklio Greece
Phone	0030/ 2810 821481 0030/ 6942273179
E-Mail	andre.holzapfel@arcor.de

23.4.1976	Born in Essen, Germany
August 1996	Start of an industrial training in the Panasonic Service Center, Essen, as a Television Engineer
August 1999	Finish of the industrial training half a year before the scheduled time, with best grades as 3rd best of the region Nordrhein (northern Rhein)
September 1999	Start of studies in the field of Media Technology at the University of Applied Sciences, Duesseldorf, Germany
March 2000	Start of work as a network assistant in the PC Pool of the University of Applied Sciences Duesseldorf
September 2000	Attendance at lectures at the Cisco Academy for Network Administration to receive basic practical and theoretical knowledge in this items
September 2001	Intermediate Diploma in scheduled time
	Start of Studies of Philosophy at the comprehensive university of Essen, attendance at courses in Philosophy of the New Age and Philosophy of Sciences
March 2002	Start of a practical training at the company Creamware, Bonn, Germany, in the field of Musical Software Engineering, development of software mainly for the use in guitar amplification
September 2003	End of the practical training, Signing of a contract as a part-time employee at Creamware
March 2003	Start of a term at the Technological Educational Institute of Crete in order to prepare for the thesis in Duesseldorf
November 2003	Start of thesis work, Subject: Development of a classifier for a speech recognition system based on a Relevance Vector Machine.
July 2004	Final exams at the University of Applied Sciences, Duesseldorf, degree 1,7
September 2004	Begin of studies in the Master programme at the Computer Science Department, University of Crete, Greece
Oktober 2005	After successful passing of all exams start of work on the Master thesis, Subject: Component based music similarity measures in MPEG-7

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André Holzapfel Date

Curriculum Vitae

Name: HUANG, Hung-Hsuan
Affiliation: Department of Intelligence Science and Technology, Graduate School of Informatics, Kyoto University, Japan
Position: PhD student in the 3rd year
Nationality: Taiwan
Birth Date: Nov. 27, 1975
Gender: male
Marriage: unmarried
Residence: Kyoto City, Japan
E-mail: huang@ii.ist.i.kyoto-u.ac.jp
Tel: +81-75-753-5387

Educational Background:

Sep. 1991-Jun. 1994	Taipei City Municipal Chien-Kuo Senior High School, Taipei, Taiwan
Sep. 1994-Jun. 1998	Department of Computer Science, National Chen-Chi University, Taipei, Taiwan
Sep. 1998-Jul. 2000	Laboratory of Intelligent Mobile Robot, Graduate School of Computer Science and Information Engineering, National Taiwan University, Taipei, Taiwan
Jul. 2002-Sep. 2003	The Yamasa Institute (Japanese language school), Aichi, Japan
Oct. 2003-present	Nishida-Sumi Laboratory, Department of Intelligence Science and Technology, Graduate School of Informatics, Kyoto University, Kyoto, Japan

Occupational Career:

Jun. 1999-Aug. 2000	research assistant, the Laboratory of Adaptive Intelligent Internet Agents, the Institute of Information Science, National Academia Sinica, Taipei, Taiwan
Oct. 2000-Jun. 2002	2nd Lieutenant, the political warfare director and the vice-commander of an army company, Matsu Island, Taiwan

General Research Interests: intelligent software agent, software Web robot, multi-agent system, information visualization, photo collection management, gesture interface, embodied conversational agent, general computer user interfaces

Publications:

Master Thesis:

Hung-Hsuan Huang: *Design and Implementation of a Configurable Wrapper for Web Information Integration.* Master Degree Thesis, National Taiwan University. Taiwan. July 2000.

International Journal:

(1) Huang, H.H., Sumi, Y., Nishida, T.: Personal Image Repositories as Externalized Memory Spaces, *International Journal of Knowledge-based and Intelligent Engineering Systems*, IOS Press. (to be published)

International Conferences:

(1) Huang, H.H., Sumi, Y., and Nishida, T.: Gallery: in Support of Human Memory. Lecture Notes in Computer Science Vol. 3213/2004, The *Proceedings of Knowledge-Based Intelligent Information and Engineering Systems: 8th International Conference* (KES 2004), Springer, Wellington, New Zealand. September 2004.

(2) Okamoto, K., Nakano Y., Okamoto, M., Huang, H.H., and Nishida, T.: Producing Camerawork in CG Movies Based on a Cognitive Shot Transition Model, Lecture Notes in Computer Science Vol. 3683/2005, The *Proceedings of Knowledge-Based Intelligent Information and Engineering Systems: 9th International Conference* (KES 2005), Sprinter, Melbourne, Australia, September 2005.

Domestic Conferences:

(1) Huang, H.H., Sumi, Y., and Nishida, T.: *Gallery: in Support of Human Memory*, JSAI 2004, Kanazawa, June 2004. (in Japanese)

(2) Huang, H.H., Nomura, S., Sumi, Y., and Nishida, T.: *Toward Contents Management with Somatic Sensation*, JSAI 2005, Kita-Kyushyu, June 2005. (in Japanese)

Preference project:

An Agent Based Multicultural User Interface in a Customer Service Application (project investigator)

Skills to offer:

- project management
- Java, C#, C programming

Possibility to bring a laptop PC: Yes

Ana Huerta Carrillo

Birth: 10 - 02 - 1981
Nationality: Spanish
E-mail: ana.huerta[]gmail.com
Group: Speech Technology Group
Departament: Electronic Engineering at ETSIT
University: Technical University of Madrid
Possibility to bring a laptop: **YES**

EDUCATION

(1999): Honors list in high school.
(1999-2005): Signal Processing Specialty (Image, Audio and Speech) Telecommunication engineering. Technical University of Madrid.
(2005): Currently doing the Master Project:
Title: "**Visual Environment for Designing Gestures using a 3D Avatar**".
Supervisor: Rubén San-Segundo.
Speech Technology Group. Dept. Electronic Engineering. UPM.

MUSIC:

Currently: MASTER OF MUSIC (Speciality PIANO). Music Professional Conservatory of Madrid.
(1989-2004): BACHELOR OF MUSIC (Speciality PIANO). Music Professional Conservatory of Móstoles and Music Professional Conservatory of Getafe.
(1992-1997): Elemental studies of percussion and accordion. Music School of Fuenlabrada.

LANGUAGES:

ENGLISH: Advanced level: reading, writing and speaking.
FRENCH: Intermediate level: reading, writing and speaking.

COMPUTING SKILLS:

OPERATIVE SYSTEMS:	Linux, Windows98/NT/2000/XP
PROGRAMMING LANGUAGES:	C, C++, Java.
TOOLS:	Xface, WinCandide, Praat, eSIGN technology, Matlab, Maple, Office97/2000, Microsoft Project, Khoros (Cantata), Microsoft Visual Studio, 3DSMax, Toon3D, OpenGL, Lightwave, Coold3D, Voacap (tool for HF communications).

PUBLICATIONS

- **"Proposing a Speech to Gesture Translation Architecture for Spanish Deaf-mute People"**. Submitted to the Journal of Visual Languages and Computing.
- **"Generating Gestures from Speech"** Proc. of the International Conference on Spoken Language Processing (ICSLP'2004). Isla Jeju (corea). October 4-8, 2004. (ISSN: 1225-441x).
- **"Multimodal Caricatural Mirror"** (ISBN: 2-87463-003-9) Proceedings of eNTERFACE 2005, The Summer Workshop on Multimodal Interfaces, Faculté Polytechnique de Mons, Belgium

PROFESSIONAL EXPERIENCE

VODAFONE (2001- 2005): Mobile phone seller for the Vodafone company.

COIT-AEIT (Spanish Association of Telecommunication Engineers) (2005-currently):

Supervision of Telecommunication Projects.

OTHERS:

(1997-1999): Collaborating Volunteer in the MYDIAN association: aid of disable children.
(2003-2005): Experience working as a music teacher.

PREFERRED PROJECTS AND SKILLS TO OFFER

1. Sign Language Tutoring Tool

Skills to offer for this project:

- Knowledge of artificial simulation of human senses.
- High knowledge of the gestures belonging to the Spanish Sign Language.
- C and C++ programming.
- 3D graphics programming with OpenGL.
- Knowledge of 3D programs: 3DS max, Lightwave and Cool3D.
- Experience characterizing kinematics of 3-D human movements.

2. Multimodal tools and interfaces for the intercommunication between visually impaired and "deaf and mute" people

Skills to offer for this project:

- Knowledge of artificial simulation of human senses.
- High knowledge of the gestures belonging to the Spanish Sign Language.
- C and C++ programming.
- 3D graphics programming with OpenGL.
- Knowledge of 3D programs: 3DS max, Lightwave and Cool3D.
- Experience characterizing kinematics of 3-D human movements.

3. An Agent Based Multicultural User Interface in a Customer Service Application

Skills to offer for this project:

- Knowledge of artificial simulation of human senses.
- C and C++ programming.
- 3D graphics programming with OpenGL.
- Knowledge of 3D programs: 3DS max, Lightwave and Cool3D.
- Experience characterizing kinematics of 3-D human movements.

BRIEF SUPERVISOR CV: Rubén San Segundo

Rubén San-Segundo received his MSEE degree from Technical University of Madrid in 1997, and Ph.D. degrees from the same university in 2002. Ruben visited *The Center of Spoken Language Research* (CSLR) at the University of Colorado (Boulder), as visiting student. During these stays, he worked in the DARPA Communicator project.

From Sep. 2001 through Feb. 2003, Rubén worked at the Speech Technology Group of the Telefónica I+D. During this period, he worked in confidence estimation for speech recognition, acoustic modelling of speech, and he was involved in the design of several services considering these technologies. Ruben has collaborated in the definition of proposals for new research projects.

Currently, Rubén is professor at the department of Electronic Engineering at ETSIT of UPM and he is member of the Speech Technology Group (GTH).

BRIEF MASTER PROJECT DESCRIPTION

Title: Visual Environment for Designing Gestures using a 3D Avatar.
Author: Ana Huerta Carrillo
Supervisor: Prof. Rubén San Segundo Hernández
Speech technology Group (GTH). Dept. Electronic Engineering at ETSIT

Description: The project consists of the implementation of an environment to create and develop animations with virtual 3D avatars. We have considered two main utilities: the first one is to define and create avatar positions, and the last one is to generate animations from the defined positions. The system is used in two ways, as an independent system or as a part of another complex system.

- As a part of a complex system: Our system will be able to play animations, from the data provided by a complex system: natural Language to gesture sequence translator. The avatar represents the gestures belonging to the Spanish Sign Language.
- As an independent system: providing a visual environment to design avatar animations in a easy way. It will include the definition of high level parameters for describing hand and arm movements. It will ready for speech therapists.

Application for eNTERFACE summer workshop 2006

Matthieu JOTTRAND

Rue Alsaut 49
6240 Farciennes
BELGIUM
Date of birth : 07/02/1982
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matthieu.jottrand@tcts.fpms.ac.be

Short CV

Working experience

Since September 2005 : PhD student in TCTS lab (FPMs). Currently working on the IRMA project (www.irmaproject.net) in the field of automatic speech recognition and spoken document indexation.

2004 : 1-month intership at CEGELEC
Collaborate to the installation of a low voltage electrical network.

Education

2004-2005 : Master degree in Electrical Engineering from the Faculté Polytechnique de Mons (FPMs, Belgium) obtained with Great Distinction, specialization in telecommunication and signal processing.

Master thesis, as Erasmus student, at Linköping Institute of Technology in the Image Coding Group. Title: "Support Vector Machines for Classification applied to Facial Expression Analysis and Remote Sensing".

2000 : Secondary school diploma from Athénée Royale Vauban (Charleroi, Belgium).

Language skills

French : native language

English : fluent

Dutch : basic knowledge

Computer knowledges

Matlab, C, basic knowledge in Linux, Windows (95,98,Xp), Word, Excel, OpenOffice.

Other activities

Scouting : Responsible of a scout group for 5 years

Preferred projects to work on

- Multimodal Character Morphing
- Multimodal tools and interfaces for the intercommunication between visually impaired and "deaf and mute" people
- Emotion Detection in the Loop for Brain Signals and Facial Images

Skills

Since September 2005, I'm working in TCTS lab, in the field of Speech Recognition. I have knowledge of statistical methods for speech recognition which could be useful for these three project. Also programming skills in C, Matlab.

I can bring a laptop.

Lawson Jean-Yves Lionel

Master in Computer Science and Engineering

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5170 Profondeville
Belgium
+32 485 95 72 36(c)
+32 10 456 456(h)
jeanyves_lawson@yahoo.fr

Belgian (M), Single
Born on December 27th, 1982 (23 years old)

Professional Objectives

Short term Deploying, Learning and Improving good software engineering methods/techniques along with solid programming and analytic skills for the realization of reliable products.

Long term Actively take part in projects targeting the introduction, the integration of IT in several promising fields.

Formation

August 2003-December 2003 *Erasmus* at «University of Virginia » (USA).

1999-2004 *Computer Science and Engineering*, Université Catholique de Louvain-la-Neuve.

Final Dissertation: *Multi-Robot Learning* using Reinforcement Learning techniques. Implemented in Mozart OZ and supervised by professor Peter Van Roy.

Professional Experiences

September 2004 to February 2007 *Software Engineer* in the Communications and Remote Sensing Laboratory of the "Université Catholique de Louvain"(Belgium)

August 2002 JAVA Developer at Denali S.A (Student's job)

Languages

French Mother language.

English Excellent knowledge.
6 Years of active learning and *5 months as exchange student* at "University Of Virginia" (USA).

Nederland Passive knowledge.
2 years of learning in high school and currently improving skills by attending complementary classes.

Technical knowledge

Programming/script Languages Mozart OZ, C, C++, JAVA, Matlab, ASM PIC, ASM x86, XML, Perl, PHP, JavaScript, SQL, HTML, CSS…

Operating System Linux (*Intermediary+*), Mac OS X (*Basic*), Windows (*Expert*).

Others Practical Knowledge in Software Engineering (component & object-based), Relational Database, Network, Distributed software, Artificial Intelligence, Real-time software.

The Projects I would like to work on:

Actually I should be working only on **Project 9** (as stated in the project 9 description). But I also include a second choice in case of irresolvable conflicts.

1- **Project 9:** Multimodal Driving Simulator.
2- Project 2: Multimodal tools and interfaces for the intercommunication between visually impaired and “deaf and mute” people

My Motivations for **Project 9**:

-I’ve worked on project 9 during eNTERFACE 05.

-I’m responsible for the development of the ***OpenInterface*** **Middleware** that allows heterogeneous software to be integrated together.

-Project 9 relies on the *OpenInterface* platform to perform the integration of various tools written in different languages.

I can bring a laptop.

RÉMY LEHEMBRE

Laboratoire TELE *(0032 (0)10 47 80 72); lehembre@tele.ucl.ac.be*

Education

- **Université catholique de Louvain**—Louvain la Neuve, Belgium
  PhD since october 2005
  - Subject thesis : Tracking of temporal variations in EEG's (Electroencephalograms) using particle filters
- **Université catholique de Louvain**—Louvain la Neuve, Belgium
  Electrical Engineering
  - Distinction
  - June, 2005
  - Final work subject : Towards a Brain-Computer Interface

Experience

- Participation in eNTERFACE05 in Mons
- co-authored "Biologically driven musical instrument" in Proceedings of eNTERFACE05 summer workshop on multimodal interfaces,Mons,Belgium,2005

Skills

- **Computer Languages:**
  - Matlab, Eagle, Quartus, Java, LaTeX
- **Methods**
  - Wavelets, Kalman filtering, Particle filters

Language

- French : Mother tongue
- English : Advanced level
- Spanish : Intermediate level

Hobbies

- Music : Guitar, bass guitar
- Reading, writing, theatre

Informations

- Co-leader with Jean-Julien Filatriau for project 6 : An instrument of sound and visual creation driven by biological signals
- Possibility to bring a laptop : yes

List of skills

- Know-how : Experienced in the use of EEG equipment
- Knowledge: Signal processing methods for EEG analysis
- Software : Implementation of different methods for EEG analysis
- Hardware : EEG acquisition blockset

dipl.ing. Vjekoslav Levačić
vjekoslav.levacic@inet.hr
A.Šenoe 48, Šenkovec, 40000 Čakovec
Tel: (+385) 98879354

Personal Information

- Date and place of birth: 27.11.1981., Čakovec, Croatia
- Driver licence: A (Motorcycle) and B (Car) category

Languages

- Croatian - native
- English – very good
- German - beginner

Formal education

- 1988 – 1996 III. Primary School Čakovec
- 1990 – 1996 Primary Music School Čakovec, piano
- 1996 – 2000 High School of Math and Natural Sciences, Čakovec
- 1997 – 2001 High Music School Varaždin, piano
- 2000 – 2005 Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia.

Field: Computing

Graduate thesis: "Distribution of Agency News to Mobile Platforms". Thesis was based on scientific research work sponsored by MSES* under mentorship of Prof. Igor S. Pandžić on Department of Telecommunications.

Average grade: 4.313 / 5.000

Computer skills

- *Programming languages:* Extensive knowledge of Java and C#, very good knowledge of C++ and C, OpenGL, DirectInput
- *Internet technologies*: J2EE, Struts, Spring, Tapestry, Velocity, PHP, XML, Flash, CSS, JavaScript, HTML
- *Databases* MySQL, Oracle, Hibernate framework, SQL
- *Development tools*: Eclipse, MS Visual Studio.NET, Matlab, KDevelop, QT
- *Operating systems*: MS Windows NT&XP, Linux (Mandrake, SUSE)

Certificates

- Certificate of Achievement MOC 2152: Implementing MS Windows Professional and Server

Qualifications

- Very good knowledge of project management (experience with waterfall based development, prototyping and agile based development, design patterns)
- Strong analytical and organizational skills

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* Ministry of Science, Education and Sports

Projects I participated in:

(1) Ring Anti-dialer (2005)

Description: This software will be able to block unknown telephone calls from customer's computers. I am developing anti-dialer for my current employer - Ring Datacom (www.ring.hr), and it will be used by well-known Croatian telecommunication company.

(2) Multimodal Focus Attention Detection in an Augmented Driver Simulator (2005)

Description: Project was held in Belgium during the Enterface 2005 (www.enterface.net) summer workshop. Purpose of this one-month long project was to detect different driver states (hypovigilence and stress) during car drive. In project, we used image processing techniques and biological data acquisition (ECG, EMG, heart rate).

Project length: 1 month + 1 month preparation

People involved: Three senior researchers, 3 postgraduates and two undergraduates.

Activities: Building communication infrastructure between components, data fusion, XML messages, force feedback wheel control implementation using Microsoft DirectInput library, participated in creation of OpenInterface* platform.

(3) MInfo – Mobile News Distribution System (master thesis, 2005)

Description: Minfo is J2EE application that delivers news on mobile phones via SMS and MMS messages. Full customization of news content, delivering and administration of news subscribers is supported. Project was sponsored by MSES and done in co-operation with HINA, the Croatian News Agency.

Project length: 1 year

People involved: I worked in cooperation with HINA's IT Manager and my Mentor.

Activities: In this project I further learned about J2EE platform and way to build complex Information systems.

(4) CHAIRMAN – Conference Management System (2004 - 2005)

Description: Chairman is a Web-based J2EE application that helps organizing conferences through paper and participant management. Project was sponsored by MSES. Over 150 people who attended international conference, ISPA 2005 (Image and Signal Processing and Analysis), used the Chairman successfully for managing the conference. MIPRO 2006, leading international conference in Croatia in the field of electrical and computer engineering is also going to use it.

Project length: 1 year

People involved: 3 undergraduate students, Prof. Sven Lončarić and his assistant helped in defining the Software Requirements Specification.

Activities: **Lead developer**, project manager, system business processes planning. Through Chairman I learned a lot about building complex systems and project management.

(5) Simple IPv6 network emulator, Ericsson Summer Camp 2004, Zagreb (2004)

Description: The project goal was to build a Linux IPv6 network emulator tool. The conference paper based on this project work is currently in preparation. The summer camp was sponsored by Ericsson Nikola Tesla in order to stimulate best students.

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* OpenInterface (www.openinterface.org), future standard for connecting cross-platform components, will enable component communication written in different languages.

Project length: 1 month

Activities: Ericsson R&D department was very satisfied with final project outcome. Since, two undergraduates have used emulator for testing IPv6 network conditions in their graduate thesis work. This year, Department of Telecommunications has decided to assign new undergraduate students to continue my work.

(6) GCC compiler structure and optimizing algorithms research. (2003 - 2004)

Description: Project at course "Optimizing compilers" involved determining the way GCC optimizes compiled code.

Project length: 4 months

People involved: 3

Activities: We examined the Open Source GCC compiler optimization techniques. I worked with two of the best students in generation. They became my close friends, and it was a great experience.

(7) Bluetooth kiosk (2003)

Description: Bluetooth kiosk presents faculty news to subscribed students on kiosk display screen.

Activities: Database and Web design

(8) Building simple compiler at course Automata, formal languages, and compiler design II (2003)

Description: Building the simple compiler that is used for moving the robotic arm

People involved: 10

Activities: Team leader, project management. This project was my first experience with project and people management. All accepted leaders were among 10 best students at course AFLCD I.

Other activities at faculty

- I assisted at three faculty courses, writing lab instructions, and helping other students:
  - Measurements in Electrotechnics
  - Basics of Virtual Environments
  - Virtual Environments

Workshops and organization efforts

- I am **a co-organizer** of **Enterface 2006 workshop**, Dubrovnik, Croatia. Currently, I work maintaining the web pages, and in summer 2006 I'll help conducting the workshop
- *Enterface 2005, summer workshop on multimodal interfaces*, 2005. , Mons, Belgium
- *Ericsson summer camp 2004*, 2004. Zagreb, Croatia
- *International Summer School of Jazz, 2000*. , Pučišće Croatia
- *EPTA Summer Piano Workshop*, 1997. , Dubrovnik, Croatia

Papers

- Levačić Vjekoslav, Bogunović Hrvoje; Lončarić Sven, Kuzmić Boris; Blažona Bojan "*Chairman – conference management system*", Proceedings of MIPRO 2005 Conference, Computers in Technical Systems, 2005. 25-30
- Alexandre Benoit, Laurent Bonnaud, Alice Caplier, Phillipe Ngo, Lionel Lawson, Daniela G. Trevisan, Vjekoslav Levacic, Celine Mancas, Guillaume Chanel "*Multimodal Focus Attention Detection in an Augmented Driver Simulator*" Enterface 2005 Proceedings, 2005. 34-43
- Komerički Hrvoje, Levačić Vjekoslav, ChaNet – IPv6 network emulator – currently under review for Melecon 2006 conference

Work experience

- Ring Datacom, where I started to work in September 2005, provides solutions in billing and anti-fraud systems for foreign telecommunication companies.

Hobbies and interests

- Most of my life, especially high school period, has been filled with music: piano lessons, practicing and performances. I accompanied choirs and instrumentalists performing the classical music at High Music School Varaždin.

- Four years I played in **Big Band Cakovec**. With them I spent many wonderful days, found how musicians enjoy their lives, travelled a lot, and performed in over 50 concerts with some of the greatest Croatian jazz musicians. We recorded two CDs and one cassette. I know how to improvise on piano, attended improvisation lessons and jazz school and people find me quite creative in it.

- I always try to fill my weeks with bicycling, jogging or fitness. Recently, you can see me playing badminton with my friends after a hard-work day.

- I have travelled quite a lot. I have been in England for four weeks, Ireland, Italy, Greece, one month in Belgium, Netherlands, Czech Republic, Austria, Hungary, Germany, and recently in Tunis. I enjoy seeing and meeting people and my wish is to travel as much as I can. My parents encourage me in that and I am thankful to them for their support.

Benoit Macq

Benoit Macq was born in 1961.
He is currently Professor at Université catholique de Louvain (UCL), in the Telecommunication Laboratory.
Benoit Macq is teaching and doing is research work in image processing for visual communications.
His main research interests are image compression, image watermarking and image analysis for medical and immersive communications.

Ferran Marques

Ferran Marqués received a degree on Electrical Engineering from the Technical University of Catalonia (UPC), Barcelona, Spain, in 1988. From 1989 to 1990, he joined the Digital Image Sequence Processing and Coding Group at the Signal Processing lab. of the Swiss Federal Institute of Technology (EPFL). In June 1990, he joined the Department of Signal Theory and Communications of the Technical University of Catalunya (UPC). From June 1991 to September 1991, he was with the Signal and Image Processing Institute (SIPI) at the University of Southern California (USC). He received the Ph.D. from the UPC in 1992.

In 1993 he joined the Technical University of Catalonia where he is currently Professor. He is lecturing on the area of communications, signal processing, digital image processing and image and video compression. His current research interests include image and video analysis, multiview image analysis, image and video segmentation, semantic image and video for indexing, human face detection and recognition, image and video coding, motion estimation and compensation, mathematical morphology and biomedical applications.

IOANNIS MARRAS

Personal data:

- Sex: Male
- Date of birth: 9th September 1980
- Language skills: English
- Programming Languages: C++, Pascal, Java, HTML, Prolog, Flex.
- Operating Systems: DOS, Linux, Windows 95-NT-2000-XP.
- Studies:
    1. Diploma in Informatics, Aristotle University of Thessaloniki, Greece 2005 (4-year course of study).
    2. PhD candidate since March 2005, dissertation subject: "**Digital Image processing and Virtual Reality**", supervisor: professor Ioannis Pitas, Aristotle University of Thessaloniki (Aristotle University of Thessaloniki is a SIMILAR partner).
- E-mail: imarras@aiia.csd.auth.gr

Research activities:

March 2005-

Participation in the SIMILAR project, research and integration work on Medical Application (wp10) and Edutainment applications (WP12).

Published Work:

- "**A General Methodology for Creating Virtual Museums**", Dionysios Politis, Gerasimos Vaiou, Ioannis Marras, Athanasios Papaioannou, Charalampos Laftsidis, *WSEAS Trans. On SYSTEMS*, Issue 6, Volume 4, June 2005.

- "**Creation of a virtual dental patient head and dental drilling simulation in a VR environment** " (in Greek), I. Marras, G. Moschos, G. Mikorgeorgis, K. Lyroudia, N. Nikolaidis, I. Pitas, *25th Greek Dentistry Conference*, October 2005.

Submitted work:

- " Virtual Dental Patient: A system for virtual drilling", I. Marras, L. Papaleontiou, N. Nikolaidis, K. Lyroudia and I. Pitas, ICME 2006.

Research areas/interests:

- Developing multimodal interfaces that allow the effective use of haptic devices.
- 3D Face modelling & animation.
- Virtual reality in medicine & dentistry (virtual tooth drilling).

ENTERFACE projects to work on:

In order of preference:

- **Multimodal tools and interfaces for the intercommunication between visually impaired and "deaf and mute" people** (Coordinator: Prof. Dimitrios Tzovaras, Informatics and Telematics Institute (ITI-CERTH), Greece). Skills to bring into the project: Experience in working with haptic devices (Phantom Desktop), face modelling/animation.

- **Multimodal Driving Simulator** (Coordinators: Dr. Laurent Bonnaud and Dr. Alice Caplier, Institut National Polytechnique de Grenoble, France, Prof. Laurence Nigay, Université Joseph Fourier, Grenoble, France, Dr. Dimitrios Tzovaras, Informatics and Telematics Institute, Greece). Skills to bring into the project: face modelling/animation.

- **Multimodal Character Morphing** (Coordinators: Prof. Thierry Dutoit, Faculté Polytechnique de Mons, Belgium, Prof. Ioannis Stylianou, University of Crete, Greece, Prof. Antonio Bonafonte, Universitat Politècnica de Catalunya, Spain). Skills to bring into the project: face modelling/animation.

It is possible to bring a laptop to the workshop.

Maja Matijasevic received her Dipl.-Ing. (1990), M.Sc. (1994), and Ph.D. (1998) degrees in Electrical Engineering from the University of Zagreb, Croatia, and the M.Sc. in Computer Engineering (1997) from the University of Louisiana at Lafayette, LA, USA. She is presently an Associate Professor in the Department of Telecommunications, Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia. She was a Research Associate in the Virtual Reality and Multimedia Laboratory of the A-CIM Center at the University of Louisiana at Lafayette, from August 1996 to April 1999, and a visiting researcher at the Technical University of Graz, Austria, on several occasions between 1992 and 1996. Her main research interests include networked virtual environments, quality of service, and advanced multimedia services in next generation networks. She is currently a team member of a national project on mobility of users and services in next generation network, and a team leader in a joint project in the area of networked virtual reality with the Ericsson Nikola Tesla telecommunications company. She has more than 40 refereed conference and journal publications. She has been involved in organization of conferences, serving as a Program, Registration and Publicity Chair. Dr. Matijasevic is a member of IEEE Communications, Computer, and Control Systems Societies, ACM, and Upsilon Pi Epsilon Honor Society in the Computing Sciences. She is presently the Chair of the IEEE Communications Society Croatia Chapter.

Eduardo Miranda

Professor Eduardo R Miranda served as a senior research scientist at Sony Computer Science Laboratory in Paris before moving to the University of Plymouth in 2003 to lead research in the fields of computer music and intelligent interactive systems in the Faculty of Technology. His research is aimed at gaining a better understanding of the fundamental cognitive mechanisms employed in sound-based communication systems, with particular focus on the role of our musical capacity in the development of spoken languages. He is the regional editor for South America of Organised Sound (CUP) and member of the editorial boards of Leonardo Music Journal (MIT Press) and Contemporary Music Review (Routledge). He is an active composer in his own right. His music has won prizes and distinctions in Europe and South America.

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Alexis Moinet

Miscellaneous	• Nationality : Belgian • Age : 23 • Place of birth : Ixelles (Belgium)
Objective	To achieve a PhD thesis in the field of speech processing. More exactly, in the fields of voice conversion and voice activity detection
Education	Bachelor in applied sciences, 2002, F.P.Ms, Belgium Master in applied sciences : electrical engineer, 2005, F.P.Ms, Belgium (Master thesis on formants tracking at IBM, T.J. Watson research center) Currently working on my thesis in the signal processing department of F.P.Ms
Languages	French (native), a good knowledge of English (6-months master thesis in NY, USA)
Computer science knowledge	Windows, Matlab, Java, C, notions of Visual C++
Leisure activities	Sports (acrobatic gymnastic, badminton, running, juggling), reading (franco-belgian comic books, books)

Preferred projects

4. Multimodal character morphing
8. Real-time and accurate control of expression in singing synthesis
2. Multimodal tools and interfaces for the intercommunication between visually impaired and "deaf and mute" people

Skills

Speech analysis and synthesis, speech source/tract decomposition, HMM, Viterbi, ZZT, formants tracking

Possibility to bring a laptop

Yes

eNTERFACE '06 Workshop
July 17 – August 11, 2006, Dubrovnik, Croatia

APPLICATION FOR PARTICIPATION AT eNTERFACE SUMMER WORKSHOP

CV:

Miran Mosmondor received his Dipl. Ing. (2004) degree in electrical engineering from the University of Zagreb, Croatia. Since 2004 he has been employed as a research engineer in the Research and Development Center of the Ericsson Nikola Tesla company in Croatia, working in the area of networked virtual reality. Currently he is also working towards his Ph.D. degree at the Faculty of Electrical Engineering and Computing, University of Zagreb. As an undergraduate student with state scholarship he participated in the Summer Camp 2003: "Agent and Visualization Technologies" workshop, jointly organized by Ericsson Nikola Tesla in cooperation with the Faculty of Electrical Engineering and Computing, University of Zagreb. Later, he became one of the project leaders at Summer Camp 2005 "Exploring ICT Frontiers: Agents, IP Multimedia Subsystem, and Distributed Computing". He published several conference papers, some of which were awarded (IEEE 12th MELECON 2004; Best Student Paper Award, MUM 2003; Best Paper Award). He also received the Rector's Award at University of Zagreb in academic year 2003/2004 for the work on personalized virtual characters in mobile networks. His main research interests are in the field of multimedia communications, virtual environments and mobile applications development.

Principal Investigator for project:

Introducing Network-Awareness for Networked Multimedia and Multi-modal Applications

eNTERFACE 2006 Workshop Application

Javier Cruz Mota

February 15, 2006

Curriculum Vitae

Personal Information

- ***Name:*** Javier Cruz Mota
- ***Date and place of birth:*** 12 May 1982, Barcelona (Spain)
- ***Mobile Phone:*** +41764589272
- ***E-Mail:*** javicm@gmail.com

Education

- M. Sc. in Mathematics by the UPC[1] (2000-2005)
- M. Sc. in Telecommunications by the UPC[1] (2000-2006) (M. Thesis pending)

Both degrees coursed simultaneously, in the mark of a special studies program for a reduced group of students at the UPC[1].

Languages

- Spanish and Catalan as mother tongues
- Good level of English
- Elementary level of French

Computer Skills

- ***Programming languages:*** C, C++, Java, Assembler, Perl, Shell scripting, PHP and JavaScript.
- ***Software:*** MatLab, Maple, R, LabView, Spice, Max Plus, Synario and Puff.
- ***Operating Systems:*** Linux and Windows.

Publications

- V. Vilaplana, C. Martínez, J. Cruz and F. Marqués, "Face recognition using groups of images in smart room scenarios", submitted to ICIP[2] 2006
- J. Cruz, "A unified approach to the position analysis of planar and spherical mechanisms using distance geometry", IRI[3]-Technical Report, 2005
- J. Cruz, R. Forcada, P. Rué and M.A. Peña, "Building a MOSIX cluster", Journal "S lo Programadores Mundo Linux", num. 51 and 52, 2003
- J. Cruz and M.A. Peña, "Interfaces programing with NCurses", Journal "S lo Programadores Mundo Linux", num. 34, 2001

Current Occupation

Now I am working on my Master Thesis as an exchange student at the EPFL[4]. The field of study is face detection and recognition in the context of smart rooms. I began this work at the UPC[1], in the group of image processing, working with Dr. Ferran Marqués, and now I am finishing it at the EPFL[4], in the group of signal processing, working with Dr. Jean-Philippe Thiran.

[1] Universitat Politècnica de Catalunya (http://www.upc.edu/)
[2] International Conference on Image Processing (http://www.icip06.org/)
[3] Institut de Robòtica i Informàtica Industrial (http://www-iri.upc.es/)
[4] École Polytechnique Fédérale de Lausanne (http://www.epfl.ch/)

Preferred Projects

- ***7.*** *Emotion Detection in the Loop from Brain Signals and Facial Images* (Coordinators: Bulent Sankur, Bogaziçi University, Turkey, Prof. Magnus Borga, Linköping University, Sweden (TO BE CONFIRMED), Prof. Alice Caplier, Université de Grenoble, France (TO BE CONFIRMED)). In this project, we intend to develop techniques for multimodal emotion detection, one modality being brain signals via fNIRS, the other modality being face video and the third modality being the scalp EEG signals.

- ***9.*** *Multimodal Driving Simulator* (Coordinators: Dr. Laurent Bonnaud and Dr. Alice Caplier, Institut National Polytechnique de Grenoble, France, Prof. Laurence Nigay, Université Joseph Fourier, Grenoble, France, Dr. Dimitrios Tzovaras, Informatics and Telematics Institute, Greece) Facing the sophisticated sensing and interaction technology available in modern cars, this project aims at designing and developing a multimodal driving simulator that is based on both multimodal driver's focus of attention detection and driver's state detection (i.e., stress and fatigue) as well as multimodal interaction for enhancing a driving task.

- ***3.*** *Sign Language Tutoring Tool* (Coordinators: Prof. Alice Caplier, l'Institut National Polytechnique de Grenoble, France, Prof. Lale Akarun, Bogaziçi University of Istanbul, Turkey). The goal of this project is the development of a real time sign language tutoring tool related to a limited number of well defined gestures which associate hand gestures and head motion and facial expressions. This will exhibit the feasibility of such a system which requires the fusion of three sources of information.

What can I offer?

- I have been working for several months with face detection and recognition algorithms, which gives to me a good background of experience in image processing and specially in face processing, as well as knowledge of the state of the art in learning and decision algorithms.
- My studies in mathematics give to me a solid mathematical background as well as a good knowledge of numerical methods.
- Due to my different studies (mathematics and telecommunications) and my interest in computers, I have a good knowledge of programming languages.

Laptop Availability

I can bring my own laptop.

MOUSTAKAS KONSTANTINOS

Electrical and Computer Engineer

Date of birth: 29 August 1980

Work address:
Informatics and Telematics Institute
Centre for Research and Technology Hellas
Augmented and Virtual Reality Laboratory (AVRL),
Thessaloniki, Zip: 57001, P.O.Box 361
Tel: +30-2310-464160 (ext. 119)
Fax: +30-2310-464164
e-mail: moustak@iti.gr

♦ Education

2003 -	PhD candidate at the Electrical and Computer Engineering Department of the Polytechnic Faculty of the Aristotle University of Thessaloniki. Supervisor: Michael. G. Strintzis.
1998 - 2003	Degree of the Electrical and Computer Engineering Department of the Polytechnic Faculty of the Aristotle University of Thessaloniki (Electronics and Computer section). Final Thesis Subject: Development of a semi-automatic tool for depth estimation for the generation of stereoscopic sequences from monoscopic.

♦ Research – Professional Experience

2003 -	Postgraduate Research Fellow, Informatics and Telematics Institute / Centre for Research and Technology Hellas (ITI/CERTH). Participation in the following R&D projects:
2003 -	VR@Theater: Virtual Reality Toolbox for Theater Professionals", GSRT, EPAN-Culture, 2003-2006.
2005	Co-Leader of the eNTERFACE summer workshop Project 7 (A Multimodal "Gesture+Speech" Interface for 3D Model Search and Retrieval Integrated in a Virtual Assembly Application) held in Mons, Belgium (18/7-12/8) in the context of the SIMILAR IST NoE.
2003	POLEIS: Virtual Cultural Tours, GSRT, PABET-NE.

♦ Teaching Experience

2004 - 2005 2005 - 2006	Lecturer in the course "Digital Filters" of the 8th semester of the Electrical and Computer Engineering Department of the Aristotle University of Thessaloniki.

♦ Foreign Languages

English	Perfect Knowledge. Proficiency in English (University of Cambridge)
German	Perfect Knowledge. Oberstuffe.

♦ Technical Skills

Operating systems:	Windows 95/98/00/XP
Programming languages:	C, C++, Visual C++, PASCAL, FORTRAN.
Software:	Microsoft Visual Studio 6, Microsoft Visual Studio.NET, Borland C++ Builder 5, MS Office 2000/XP, Matlab 6, 3Dsmax, Poser.

♦ Research Interests

Virtual Reality. Realistic simulations of complex virtual environments. Alternative modeling of rigid virtual 3D objects. 3D content-based search and retrieval. Dynamical simulation of deformable virtual objects. Stereoscopic vision and processing. Computer vision. Multimedia.

The work in the aforementioned areas has lead to over 20 publications in international journals, edited books and refereed conferences

Laurence Nigay
Professor at the University Joseph Fourier Grenoble 1, FRANCE
Member of the SIMILAR NoE
Laurence.Nigay@imag.fr

PhD in Computer Science, Laurence Nigay is full professor at Université Joseph Fourier (UJF, Grenoble 1) and at Institut Universitaire de France (IUF). She has been a member of the CLIPS-IMAG (Communication Langagière & Interaction Personne Système) laboratory since 1994.

Her research interests focus on the design and development of user interfaces. In particular her research studies centre on Multimodal and Augmented Reality (AR) user interfaces such as the component-based approach named ICARE (Interaction Complementarity, Assignment, Redundancy and Equivalence) for the development of multimodal and AR interfaces. She has published more than 120 articles in conferences, journals and books.

From 1998-2004, she was vice-chair of the IFIP working group WG 2.7/13.4 “User Interface Engineering”. She was responsible of the CNRS national working group on multimodality and is now managing the one on Mobility and Ubiquity (co-creator of the UBIMOB conference). She is a founding member of French association for computer human interaction and is involved in many international scientific societies and events, as well as European research projects (coordinator of the OpenInterface project FP6-2005-IST-5).

Laurence Nigay has received several scientific awards (including the CNRS Bronze medal in 2002 and the UJF gold medal in 2003 and again in 2005) for excellence in her research.

More information available at:
http://iihm.imag.fr/nigay/

CURRICULUM VITAE

NIKOLAKIS GEORGIOS

Date of Birth: 6 March 1974
ADDRESS:
P. Syndika 63
GR 54644 – THESSALONIKI
Tel.: +30 2310 861608, +30 6944 352 933
E-MAIL: gniko@iti.gr

Mr. George Nikolakis was born in Kavala Greece, in 1974.

◆ Education

He received the Electrical Engineering diploma from the Electrical Engineering Department of the Aristotle University, Thessaloniki, Greece in 1997. His final thesis subject was: “Image and image sequence compression using fractal transformations” and was supervised by professor M.G. Strintzis. He has a master of science in medical informatics in the Medical department of the Aristotle University of Thessaloniki. The final thesis subject: “Haptic environment for the blind and visually impaired”, Supervised by professor M.G. Strintzis.

◆ Research and Professional Activities

He worked in the Research and Development department of Omron Corporation in Japan for two months during summer 1995 as an assistant researcer. He has also worked for 8 months during 1997 and 1998 as an assistant engineer in special design for mobile phone comunications. Works for the Informatics and Telematics Institute, Centre for Research and Technology (ITI/CERTH) since November 2000. He is cooperating with the Augmented and Virtual Reality Laboratory (AVRL) since June 2001. He is employed as Technical and Research assistant of the AVRL since November 2003. He has participated in several research projects including projects for people with disabilities. G. Nikolakis is a member of the Technical Chamber of Greece.

◆ Technical Skills

Has worked on Windows, DOS, Linux, UNIX operating systems. Has worked with various programming languages such as C++, C, VRML, BASIC and data processing packages (Matlab, Excel).

◆ Languages

Greek	Native language
English	First Certificate in English (University of Cambridge).

◆ Research Interests

His research interests include computer human interaction, rehabilitation and assistive technology, hpatic interfaces.

◆ Selected Publications

[1] D. Tzovaras, **G. Nikolakis**, G. Fergadis, S. Malasiotis and M. Stavrakis, ``Design and Implementation of Haptic Virtual Environments for the Training of Visually Impaired'', IEEE Trans. on Neural Systems and Rehabilitation Engineering, Vol. 12, No. 2, pp.266-278, June 2004.

[2] K. Moustakas, **G. Nikolakis**, D. Tzovaras and M.G. Strintzis, "Haptic Access to Virtual Models of Real Data for Training the Visually Impaired", Applied Technologies in Medicine and Neuroscience, Verlag Integrative Psychiatrie, ISBN 3-85184-027-5, 2005.

[3] **G. Nikolakis**, D. Koutsonanos, P. Daras, K. Moustakas, D. Tzovaras and M.G. Strintzis, “Haptic Interaction in Medical Virtual Environments”, Encyclopedia of Biomedical Engineering, John Wiley & Sons, accepted for publication.

Short CV of Toyoaki Nishida

Toyoaki Nishida is a professor of Department of Intelligence Science and Technology, Graduate School of Informatics, Kyoto University. He received the B.E., the M.E., and the Doctor of Engineering degrees from Kyoto University in 1977, 1979, and 1984, respectively. His research centers on artificial intelligence and human computer interaction. His current research focuses on social intelligence design and communicative intelligence. He leads several projects, including a JSPS (Japan Society for the Promotion of Science) project on intelligent media technology for supporting natural communication between people, and a RISTEX (The Research Institute of Science and Technology for Society) project on conversational knowledge process for risk communication. He is a member of the board of directors of IPS Japan. He serves as an editorial board member of numerous publications, including New Generation Computing (area editor of intelligent systems track), Autonomous Agents and Multiagent Systems, Knowledge and Information Systems, Web Intelligence and Agent Systems, and Springer book series on Advanced Information and Knowledge Processing. He is a founder of a series of international workshops on social intelligence design, originating in JSAI-Synsophy International Workshop on Social Intelligence Design (SID2001), May 2001.

Toyoaki Nishida proposed Social Intelligence Design as a new research field and has been working on it, as well as co-chairing a series of international workshops on Social Intelligence Design. Social Intelligence Design as a research field attempts to integrate understanding and designing social intelligence. Engineering aspects of Social Intelligence Design involve design and implementation of systems and environments, ranging from group/team oriented collaboration support systems that facilitate common ground building, goal-oriented interaction among participants, to community support systems that support large-scale online-discussion. Scientific aspects involve cognitive and social psychological understanding of social intelligence, attempting to provide a means for predicting and evaluating the effect of a given communication medium on the nature of discussions, interaction dynamics, and conclusions. Nishida places a particular emphasis on the use of conversational communications in the knowledge process and introduces a computational framework of conversational knowledge process. He has been working on the development of a suite of intelligent media technology for analyzing and augmenting conversational knowledge process, comprising socially intelligent agents that can be embedded in the human society, socially intelligent environments that help social actors to interact with each other, intelligent contents that can adapt themselves in the communication context, and persistent memory that helps social actors and environments build personal or collective memory that persists and grows. Currently, he addresses a theoretical framework of articulated conversation, called conversation quantization, which may enable to implement a rather robust conversational system by basing the conversational system the large amount of conversational quanta collected from the real world. The current focus of his research is acquisition, annotation, adaptation, and understanding of conversational quanta.

Major Publications

[1] Hidekazu Kubota, Toyoaki Nishida, and Tomoko Koda. Exchanging Tacit Community Knowledge by Talking-virtualized-egos, in: Proceedings of Agent 2000, pp.285-292, 2000.
[2] Toyoaki Nishida (ed.): Dynamic Knowledge Interaction, CRC Press LLC, 2000.
[3] T. Nishida: Social Intelligence Design for Knowledge Creating Communities, Invited Paper, The 2001 International Conference on Intelligent Agent Technology (IAT-2001), Maebashi, Japan, October 23-26, 2001.
[4] Kaoru Sumi and Toyoaki Nishida. Telme: A Personalized, Context-Aware Communication Support System, IEEE Intelligent Systems, Vol.16, No. 3, pp. 21-27, 2001.
[5] Toyoaki Nishida: Communicative Reality for Social Intelligence Design, invited talk, The IEEE International Workshop on Knowledge Media Networking (KMN'02) , CRL keihanna, Kyoto, July 10-12 (2002).
[6] T. Nishida. Social Intelligence Design for Web Intelligence, Special Issue on Web Intelligence, IEEE Computer, Vol. 35, No. 11, pp. 37-41, November, 2002.
[7] Toyoaki Nishida: Supporting the Conversational Knowledge Process in the Networked Community, Special Invited Talk, presented at 3rd Workshop on Databases in Networked Information Systems (DNIS '03), University of Aizu, Japan, September 22-24, 2003.
[8] T. Nishida. Social Intelligence Design and Communicative Intelligence for Knowledgeable Community, Invited Talk, International Symposium on Digital Libraries and Knowledge Communities in Networked Information Society DLKC'04, Kasuga Campus, University of Tsukuba, March 2 - 5, 2004.
[9] Toyoaki Nishida: Towards Intelligent Media Technology for Communicative Intelligence, Keynote Speech, in Proceedings of International Workshop on Intelligent Media Technology for Communicative Intelligence (IMTCI), pp. 1-7, 2004.
[10] Toyoaki Nishida: Conversational Knowledge Process for Social Intelligence Design, Invited Talk, in: A. Aagesen et al. (Eds.): INTELLCOMM 2004, LNCS 3283, Springer, pp. 28-42, 2004.
[11] Toyoaki Nishida: Conversation Quantization for Conversational Knowledge Process, Special Invited Talk, S. Bhalla (Ed.): DNIS 2005, LNCS 3433, Springer, pp. 15-33, 2005.

Ferda Ofli

Current Address:
Koc University Rumeli Feneri Kampusu
Rumeli Feneri Yolu 34450 Sariyer / Istanbul
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Permanent Address:
Liman Mah. Ozan Sok. Park Sitesi
C – Blok No: 11/18 55100 Samsun
+90 362 4471387

GSM: +90 533 4272698
E-mail: fofli@ku.edu.tr

Career Objective

To become a successful researcher in the area of signal processing, specifically in image and video processing.

Education

2005 – present ***Koc University College of Engineering, Istanbul, Turkey***
M.Sc. in Electrical and Computer Engineering, 2007
Full Scholarship

2000 – 2005 ***Koc University College of Engineering, Istanbul, Turkey***
B.Sc. in Electrical and Electronics Engineering
GPA 3.48/4.0
Merit scholarship recipient
Vehbi Koc Scholar

2000 – 2005 ***Koc University College of Engineering, Istanbul, Turkey***
B.Sc. in Computer Engineering
GPA 3.48/4.0
Merit scholarship recipient
Vehbi Koc Scholar

1993 – 2000 ***Milli Piyango Anadolu Lisesi, Samsun, Turkey***
Graduated with first rank, honor of the school

1988 – 1993 ***30 Agustos Ilkogretim Okulu, Samsun, Turkey***
Graduated with first rank, honor of the school

Work Experience

2/2006 – 6/2006 ***Koc University, Istanbul, Turkey***
Teaching Assistant
Worked with Asst. Prof. Ahmet Akkas for Comp306 class, titled as "Database Management Systems", and graded homework and quizzes

10/2005 – 1/2006 ***Koc University, Istanbul, Turkey***
Teaching Assistant
Worked with Asst. Prof. Deniz Yuret for Comp101 class, titled as "Structure and Interpretation of Computer Programs", and organized weekly laboratory sessions for the course

8/2005 – 9/2005 ***Enterface'05: The SIMILAR NoE Summer Workshop on Multimodal Interfaces, Faculté Polytechnique de Mons, Mons, Belgium***
Project Member
Took part in the project "Combined Gesture-Speech Analysis and Synthesis" for a month. The paper written at the end of the workshop is accepted in IEEE Int. Conference on Multimedia, Expo (ICME'06).

2/2004 – 6/2005 ***Koc University, Istanbul, Turkey***
Teaching Assistant
Worked with Asst. Prof. Deniz Yuret for Comp101 class, titled as "Structure and Interpretation of Computer Programs"

9/2002 – 6/2005 ***Koc University, Istanbul, Turkey***
Resident Assistant (RA)
Took part in the residence assistance program at Koc University dormitories

7/2004 – 9/2004 ***STMicroelectronics, Istanbul, Turkey***
Summer Internship
Developed team projects on analog and digital design of microelectronic circuits

9/2002 – 1/2004 ***Koc University, Istanbul, Turkey***
Mentor
Took responsibility in the mentorship program to welcome new students to the university and try to help them about any question they had related to classes, university life, etc.

9/2001 – 1/2004 ***Koc University, Istanbul, Turkey***
Research Assistant
Worked with Asst. Prof Engin Erzin in the Multimedia, Vision & Graphics Laboratory mainly on speech recognition

9/2000 – 6/2001 ***Koc University, Istanbul, Turkey***
Part-time Student
In Computer & Information Technology (CIT) Office

Professional Skills

- Advanced level of English
- Programming languages, i.e. Fortran, C,, C++, Java, Lisp, Scheme, Perl, VHDL
- Design languages, i.e. UML
- Circuit Simulation Tools, i.e. Spice, Magic, Xilinx, Max+plus, Matlab, Cadence
- Operating Systems, i.e. Windows 2000, NT, XP, Linux, Unix

Training

- Advanced training on effective communication skills and conflict management, presented by Dr. Sema Suvarioglu from Pusula Training & Management Counseling, September 2002
- Seminar on drug and alcohol abuse, presented by Assoc. Prof. Kultegin Ögel, MD, May 2002

Activities

- Treasurer of Koc University Graduate Student Association (GSA), 2005 – present
- Treasurer of Koc University Folklore Club, 2001 – 2003
- Member of Engineering Club, 2000 – 2003
- Member of Computer Club, 2001 – 2005
- Secretary of Computer Club, 2001 – 2002
- Member of Koc Gonulluleri, 2001 – 2004
- Performing folk dances in festivals (4. European Youth Festival, Ankara, 2002)
- Teaching high school lessons at Halk Egitim Merkezi, Sariyer, 2002 – 2003
- Player in volleyball team of Koc University, 2001 – present
  in Samsun DSI Spor, 1995-1999, first rank in city and region

Personal

- Born in March 27, 1982. Samsun
- Special interests in reading, writing, listening to music, watching movies, any kinds of sports, computers
- Awarded by governor of Samsun for a poem related to 19th of May, Youth and Sports Day, 2000

Igor S. Pandzic

Igor S. Pandzic is an Assistant Professor at the Department of Telecommunications, Faculty of Electrical Engineering and Computing, University of Zagreb , Croatia . He teaches several undergraduate and postgraduate courses in the fields of virtual environments and multimedia communications.

His main research interests are in the field of computer graphics and virtual environments, with particular focus on facial animation, embodied conversational agents, and their applications in networked and mobile environments. Igor also worked on networked collaborative virtual environments, computer generated film production and parallel computing. He published three books and around 60 papers on these topics.

Formerly he worked as a Senior Assistant at MIRALab, University of Geneva , Switzerland , where he obtained his PhD in 1998. The same year he worked as visiting scientist at AT&T Labs, USA . In 2001-2002 Igor was a visiting scientist in the Image Coding Group at the University of Linköping , Sweden, and in 2005 at the Department of Intelligence Science and Technology, Kyoto University, on a Fellowship awarded by Japan Society for Promotion of Science. Igor received his BSc degree in Electrical Engineering from the University of Zagreb in 1993, and MSc degreesfrom the Swiss Federal Institute of Technology (EPFL) and the University of Geneva in 1994 and 1995, respectively.

Igor was one of the key contributors to the Facial Animation specification in the MPEG-4 International Standard for which he received an ISO Certificate of Appreciation in 2000. He held various functions in organizing numerous international conferences and served as guest editor for a special topic in IEEE Communications Magazine. Igor has been active in international research collaborations within the EU research programmes since the 3rd Framework Programme, as well as in national research projects and collaboration with industry

Curriculum Vitae

Personal information

Surname / First name	**Pavlek, Jakov**				
Address:	Brdovecka 9, 10290 Zapresic, Croatia (Hrvatska)				
Telephone:	+38516129763	Mobile:	+385915751117	E-mail:	jakov.pavlek@fer.hr
Nationality:	Croatian	Date of birth:	11 February 1981	Gender:	Male

Occupational field	Academic researcher/Speech & Language Technologies
Work experience	
Occupation or position held:	Research assistant; Main activities and responsibilities: Language Technologies/Web Services
Organisation	Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia (Hrvatska)
Education	
Title of qualification awarded	(Still in progress, aimed title: M.Sc.)
Principal subjects / occupational skills	Discrete Math/Statistics and Probability/Artificial Intelligence/Machine Learning/Virtual Environments/Natural Language Processing/Croatian Language.
Organisation providing education	University of Zagreb, Faculty of Electrical engineering and computing.
Level in international classification	M.Sc.
Title of qualification awarded	(Still in progress, the aimed title: Hungarologist and prof. of Slovak language and literature)
Principal subjects / occupational skills	Slovak language and literature, Hungarian language and literature, translation.
Organisation providing education	University of Zagreb, Faculty of Philosophy.
Level in international classification	B.Sc.
Title of qualification awarded	Graduated Engineer of ELECTRICAL ENGINEERING, branch: Telecommunications and Information Technology (equivalent M.Sc. 301 ECTS points achieved)
Principal subjects / occupational skills	Electrical engineering, telecommunications, radiocommunications, computer science.
Organisation providing education	University of Zagreb, Faculty of electrical engineering and computing
Level in international classification	M.Sc. (300 ECTS points)
Skills	
Languages	**Croatian** (Mother tongue), **English** (C2 - Proficient user)**, German** (C1 -Proficient/B2-Independent user)**, Slovak** (B1- Independent user)**, Hungarian** (A2 - Basic User). Common European Framework of Reference (CEF) level
Social skills and competences	Good motivator, inspire people, create positive working atmosphere (feedback from colleagues); Team spirit, fast learning, easily adapting, good presentation skills.
Computer skills and competences	**Perl** (Conjugational Forms in Croatian Language - an Implementation of Generative Morphology Description, Unix Environment; Automatic self-improving of grading and test assessment in Fundamentals of Electrical Engineering - a test question database [planned/in progress]), **Java** (JGraph - application for operations and algorithms on graphs), **C/C++** (Graph Coloring - COSMOS C++ developing environment project, Graph Representation and Graph Algorithms - object-oriented C++ individual student project), **PHP**, **SQL**.
Other skills and competences	Photography, dancing, hiking, swimming, ice-skating
Publications / Conferences / Workshops / Courses	Publication article: Dembitz, S; Jojic, Lj; Pavlek, J., Artifical intelligence in lexicography: Croatian Encyclopaedic Dictionary Example // Annals of DAAAM for 2005 & proceedings of the 16th international DAAAM symposium / Branko Katalinic (ur.), Vienna: DAAAM International Vienna, 2005 16th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Young Researchers and Scientists", 19th-22nd October, 2005, Opatija, Croatia; Institute of Croatian Language and Linguistics, The Croatian Language Technologies Society (CLTS) & the University of Split: Workshop for Computational Modelling of Lexical Acquisition, Split (Croatia), 25th-28th July, 2005; BEST Course "Medical imaging for diagnosis, image guided surgery and drug discovery", Université catholique de Louvain, Louvain-la-Neuve (Belgium), 18th-31st July, 2004;

List of preferred projects to work on:

2.**Multimodal tools and interfaces for the intercommunication between visually impaired and "deaf and mute" people** (Coordinator: Prof. Dimitrios Tzovaras, Informatics and Telematics Institute (ITI-CERTH), Greece). The main objective of the project is to build a multimodal interface that combines visual, aural and haptic interaction with gesture-speech recognition, speech synthesis and sign language recognition and synthesis, in order to enable the communication of people exhibiting different kinds of disabilities.

3.**Sign Language Tutoring Tool** (Coordinators: Prof. Alice Caplier, l'Institut National Polytechnique de Grenoble, France, Prof. Lale Akarun, Boğaziçi University of Istanbul, Turkey). The goal of this project is the development of a real time sign language tutoring tool related to a limited number of well defined gestures which associate hand gestures and head motion and facial expressions. This will exhibit the feasibility of such a system which requires the fusion of three sources of information.

4.**Multimodal Character Morphing** (Coordinators: Prof. Thierry Dutoit, Faculté Polytechnique de Mons, Belgium, Prof. Ioannis Stylianou, University of Crete, Greece, Prof. Antonio Bonafonte, Universitat Politècnica de Catalunya, Spain). This project aims at performing high quality transformation on the multimodal recordings (audiovisual files) of a source speaker A. Using both voice conversion and video morphing, the result will be a set of audiovisual files with a target speaker B speaking with his/her own voice and acting like A does.

List of skills to offer for projects:
Matlab, C++, Java, Perl, PHP, SQL, HTML, UML.
Some experience in signal processing, image processing and natural language processing, teamwork experience, positive spirit, great enthusiasm and strong wish and will for learning.

1 laptop.

Curriculum Vitae

PhD Student

Javier Pérez Mayos

Universitat Politècnica de Catalunya (UPC)
Barcelona, Spain. (From May 2003)

e-mail: javierp@gps.tsc.upc.edu
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http://gps-tsc.upc.edu/veu/

Projects

TC-STAR	Technology and Corpora for Speech to Speech Translation EU Funded (FP6-506738)
LC-STAR	Lexica and Corpora for Speech-to-Speech Translation Components EU Funded (IST-2001-32216)
FAME	Facilitating Agent in Multicultural Exchange Translation Components. EU Funded (IST-2000-28323)
ALIADO	Speech and Language Technologies for a Personal Assistant Spanish National Project (TIC2002-04447-C02)

Publications

2006	*GAIA: A Common Framework for the Development of Speech Translation Techonologies* Javier Pérez, Antonio Bonafonte 5th Int. Conf. on Language Resources and Evaluation, LREC06
2006	*Acceptance Testing of a Spoken Language Translation System* Rafael Banchs, Antonio Bonafonte, Javier Pérez 5th Int. Conf. on Language Resources and Evaluation, LREC06
2006	*ECESS Inter-Module Interface Specification for Speech Synthesis* Javier Pérez, Antonio Bonafonte *et al.* 5th Int. Conf. on Language Resources and Evaluation, LREC06
2005	*Automatic Voice-Source Parameterization of Natural Speech* Javier Pérez, Antonio Bonafonte. Proc. of Interspeech 2005

Education

2001/12	***Royal Institute of Technology (KTH), Stockholm, Sweden*** ***Universitat Politècnica de Catalunya, Barcelona, Spain*** Master of Science in Electrical Engineering

Skills

Languages	Catalan & Spanish: written and spoken, mother tongue. English: fluently spoken and written. Swedish: intermediate level. Arabic: begginer level.

PERSONAL INFORMATION

Surname(s) / First name(s)	**Pišković Ivan**
Address(es)	Hrvoja Macanovića 10, 10000 Zagreb, Croatia
Telephone(s)	+385 1 3633 094; +385 98 254 645
E-mail(s), Web address(s)	ivan.piskovic@fer.hr
Date of birth	29.03.1983.

EDUCATION

Date	2001. – 2006.
Place of education	Zagreb, Croatia
Name and type of organization providing education	Faculty of Electrical Engineering and Computing
Date	1997. – 2001.
Place of education	Zagreb, Croatia
Name and type of organization providing education	5th Gymnasium

PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s)	Croatian
Other language(s)	
Language	English
Speaking	excellent
Writing	excellent
Understanding (listening and reading)	excellent
Language	German
Speaking	good
Writing	good
Understanding (listening and reading)	good

TECHNICAL SKILLS AND COMPETENCIES

knowledge about computer networks, computers, programming in Java, mobile telecommunications

PREFERRED PROJECTSS

5. Introducing Network-Awareness for Networked Multimedia and Multi-modal Applications
9. Multimodal Driving Simulator
4. Multimodal Character Morphing

LAPTOP

Yes

DRIVING LICENCE(S)

B category

Michele Rombaut

Michele Rombaut is a professor in the Laboratory of Images and Signal in Grenoble (France).
Michele Rombaut works on Data Fusion for fifteen years, in the begining on Intelligent vehicle, on medical images and now, on videos.

Short Resume

Bülent Sankur has received his B.S. degree in Electrical Enginnering at Robert College, and has completed his M.Sc. and Ph.D. degrees at Rensselaer Polytechnic Institute, New York, USA. Since 1976 he has been teaching at Boğaziçi University in the Department of Electric and Electronic Enginering. His research interests are in the areas of Multimodal Biometrics, Man-Machine Interfaces, and Multimedia Indexing and Security. He has published more than hundred and fifty journal and conference papers, and has authored three books. He has also established a Signal and Image Processing laboratory at Boğaziçi University. Dr. Sankur has held visiting positions at University of Ottawa (Canada), Technical University of Delft (Holland) and Ecole Nationale Supérieure des Télécommunications (France).

Dr. Sankur has worked as an industrial consultant in networking and signal processing areas at Teletaş-Alcatel, Arçelik, Marmara Research Center as well as at the Project Office of the Turkish General Staff. He was the chairman of IEEE Signal Processing Society of the Turkish chapter (1994-1996). He initiated a series of conferences on Signal Processing in Turkey, chaired two international conferences, ICT'96: International Conference on Telecommunications and EUSIPCO'05: European Signal Processing Conference. Presently he is involved in several national and international (FP6) research projects.

Sample publications:

- B. Coskun, B. Sankur, N. Memon, Spatio-Temporal Transform-Based Video Hashing, submitted to IEEE Trans. on Multimedia, (to appear), 2006.
- E. Konukoğlu, E. Yoruk, J. Darbon, B. Sankur, Shape-Based Hand Recognition, IEEE Trans. on Image Processing, (to appear), 2006.
- Avcibas, M. Kharrazi, N. Memon, B. Sankur, Image Steganalysis with Binary Similarity Measures, Journal on Applied Signal Processing, 2749-2757, 17, 2005.
- Avcibas, B. Sankur, N. Memon, K. Sayood, A successively refinable lossless image coding algorithm, IEEE Trans. Communications, 53(3), 445-453, March, 2005.
- H.K. Ekenel, B. Sankur, Multiresolution Face Recognition, Image and Vision Computing, 23(5), 469-477, 2005.
- Ç. Erdem Eroğlu, B. Sankur, M. Tekalp, Performance Measures for Video Object Segmentation and Tracking, IEEE Trans. on Image Processing, 13(7), 937-951, July 2004.
- H.K. Ekenel, B. Sankur, Feature selection in the independent component subspace for face recognition, Pattern Recognition Letters, 25, 1377–1388, 2004.
- O. Ekici, B. Sankur, B. Coskun, U. Naci, M. Akcay, Comparative Assessment of Semifragile Watermarking Methods, Journal of Electronic Imaging, 13(1), 209-216, January 2004.

- B. Sankur, M. Sezgin, A Survey Over Image Thresholdıng Techniques And Quantitative Performance Evaluation, Journal of Electronic Imaging, 13(1), 146-165, January 2004.

ARMAN SAVRAN

Personal information:

- Member of BUMM in SIMILAR, Bogazici U., Istanbul, Turkey.

Adress: Bogazici University, EE Department, Bebek 34342, Istanbul, Turkey

Phone: +90-212-3596414 (Dept.)

E-mail: arman.savran@boun.edu.tr

Birthday: 21/11/1981

Gender: Male

Education:

- PhD student in Electrical & Electronic Eng., Bogazici University, Istanbul (Present).
- MS in Electrical & Electronic Eng, Bogazici University, Istanbul, Turkey (2004).
- BS in Electronic & Comm. Eng., Istanbul Technical U., Istanbul, Turkey (2002).

Research Objectives:

Doing research on facial motion analysis from video, especially on emotion and speech related facial motions. Planning to study on facial expression tracking and recognition from video data of a person for the PhD thesis. Also, doing research on synthesis of facial motion on virtual characters from video, audio or text.

Research Experience:

Enterface'05

Worked on facial animation for the project "Multimodal Caricatural Mirror"

Speech & Text Driven 3D Face Synthesis (2004 – present)

Funded by SIMILAR Network of Excellence within EU's 6th Framework Programme

Description: The goal of this project is to automatically generate facial animations from speech and text. This research focuses on the accurate synthesis of visual speech as well as emotions and facial gestures.

Publications:

- Savran, A., L. M. Arslan, L. Akarun, "Speaker Independent 3D Face Synthesis Driven by Speech and Text", Elsevier Signal Processing, in press.
- Savran, A., "Speech and Text Driven 3-D Face Synthesis for the Hearing Impaired", M.S. Thesis, Bogazici University, Sep. 2004.
- Savran, A., L. M. Arslan, L. Akarun, "Speech Driven MPEG-4 Facial Animation for Turkish", SPECOM 2004, St. Petersburg, Russia, Sep. 2004.

Preferred Projects:

Emotion Detection in the Loop from Brain Signals and Facial Images

Skills:

Graduate Courses

Speech Processing, Image Processing, Computer Vision, 3D Computer Vision, Digital Video Processing, Computer Graphics, Statistical Pattern Recognition, Artificial Neural Networks, Detection & Estimation Theory, Adaptive Filter Theory, Statistical Signal Analysis, Multiresolution Signal Processing.

Computer Skills

- Matlab (advanced)
- Programming Languages: C/C++ (Visual C++ .NET), Perl
- Interface APIs: wxWidgets, MFC
- Computer Graphics: OpenGL API, Cg (NVIDIA's GPU programming lang.)
- Computer Vision: OpenCV
- Speech Processing: HTK, Microsoft Speech SDK (for TTS)

Laptop:

For the time being, it is uncertain. Probably, I can bring.

eNTERFACE'06 inscription

Marcos SERRANO
Cv: see page 2

Skills:

- I work with Laurence Nigay in Université Joseph Fourier (Grenoble), implementing software solutions for rapidly developing multimodal interfaces. I consider that my experience in Multimodality would be interesting in the project "Multimodal Driving Simulator", in which Laurence Nigay works as coordinator.
- I think that my language skills are also interesting in this multinational context, as I speak Spanish and French as mother tongues (in fact my real mother tongue is Spanish, but I studied in a French school, so I speak French as well as Spanish), and I speak fluent English and Portuguese.
- I am very interested in working in a different and exciting environment, like eNTERFACE.

Laptop:

- I can bring a laptop (Dell Precision M70)

Preferred projects:

- Preferred project: 9 "Multimodal Driving Simulator"

Marcos SERRANO BRIEGA
Date of birth: 05/08/1981
Spanish
Email: marcos.serrano@imag.fr

Single
Home address: 33 Chemin de l'Eglise
38100 Grenoble (France)
Mobile phone: (0033) 0-662900081

COMPUTER SCIENCE ENGINEER

Specialized Human Machine Interaction

Work and Research Experience

1 June 2000- 31 July 2000	Internship in Norma-4 (Madrid, Spain) Programming in Visual-Basic
1 Mars 2004 30 June 2004	Internship in France Telecom R&D (Meylan) Programming in java and testing of an electronic vote solution.
1 Mars 2005 30 June 2005	Internship in IIHM team in CLIPS laboratory of IMAG (Grenoble). Implementation of a multimodal human machine interaction platform. Programming in java.
1 Oct 2005- 30 Dec 2005	CDD in CLIPS : Implementation of a multimodal application on mobile phone for France Telecom R&D (Lannion)

Education

June 1999	Baccalauréat Général (French school final degree)
June 1999	Selectividad degree (Spanish school final degree)
2003-2004	Last year in ENSIMAG ("Distributed Systems and Networks")
2004-2005	Last year in ENSIMAG ("Images and Virtual Reality") in a double degree exchange.
June 2005	Computer Science Engineer degree in ENSIMAG
2005-2006	"Intelligence, Interaction and Information" Master in UJF (Grenoble)
	Computer Science Engineer in Polytechnic University of Madrid

COMPUTER SKILLS AND LANGUAGES

Programming Languages	Java, C++, C, C#, Ada, Huskell, Prolog, Modula-2, Html, SQL, VHDL
Software	Netbeans, Eclipse, Visual Studio C++, Visual Studio .Net, Webmin, Matlab, JUnit, Jmeter, Adobe Première, Adobe AfterEffects
Others	OpenGL, scripts Maya, JSP, Torque, CVS, Jetspeed, Turbine, Ant, Visual-Basic, Corba, JavaScript

Languages	Spanish	Mother tongue
	French	"Mother tongue" (Scholarship in French school)
	English	fluent
	Portuguese	fluent
Interests	Sports	Ski, Climbing, Hiking, Football, Basket
	Others	Literature, Cinema

Yannis Stylianou

Yannis Stylianou is Associate Professor at University of Crete, Department of Computer Science. He received the Diploma of Electrical Engineering from the National Technical University, NTUA, of Athens in 1991 and the M.Sc. and Ph.D. degrees in Signal Processing from the Ecole National Superieure des Telecommunications, ENST, Paris, France in 1992 and 1996, respectively. From 1996 until 2001 he was with AT&T Labs Research (Murray Hill and Florham Park, NJ, USA) as a Senior Technical Staff Member. In 2001 he joined Bell-Labs Lucent Technologies, in Murray Hill, NJ, USA. Since 2002 he is with the Computer Science Department at the University of Crete. He was Associate Editor for the IEEE Signal Processing Letters from 1999 until 2002. He is Associate Editor of the EURASIP Journal on Speech, Audio and Music Processing. He was served on the Management Committee for the COST Action 277: "Nonlinear Speech Processing" and he is one of the two proponents for a new COST Action on Voice Quality Assessment. He holds 8 patents. Prof. Stylianou participates in the SIMILAR Network of Excellence (6th FP) coordinating the task on the fusion of speech and handwriting modalities.

PERSONAL INFORMATION

Surname(s) / First name(s)	**Sužnjević Mirko**
Address(es)	Jarunska 2, 10000 Zagreb, Croatia, Donje Selište 30, 44400 Glina, Croatia
Telephone(s)	+385 44 880 453; +385 98 19 34 215; + 385 95 901 34 25
E-mail(s), Web address(s)	mirko.suznjevic@fer.hr
Date of birth	31.01.1983.

EDUCATION

Date	2001. – 2006.
Place of education	Zagreb, Croatia
Name and type of organization providing education	Faculty of Electrical Engineering and Computing
Date	1997. – 2001.
Place of education	Glina, Croatia
Name and type of organization providing education	Gymnasium Glina

TRAINING

Year	2005
Place of training	Zagreb, Croatia
Name and type of organisation providing training	Ericsson Nikola Tesla
Principal subjects/Occupational skills covered	IP Multimedia Subsystem, 3D application development in a multiuser and multimedia networked virtual environment

PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s)	Croatian
Other language(s)	
Language	English
Speaking	excellent
Writing	excellent
Understanding (listening and reading)	excellent

TECHNICAL SKILLS AND COMPETENCIES knowledge about computer networks, mobile telecommunications, computers, programming in Java,

PREFERRED PROJECTSS

5. Introducing Network-Awareness for Networked Multimedia and Multi-modal Applications
9. Multimodal Driving Simulator
4. Multimodal Character Morphing

LAPTOP Yes

DRIVING LICENCE(S) B category

OTHER I would like to be considered for undergraduate student grant funding

Application for eNTERFACE'06

Kateryna Tarasenko e-mail : katerynataras@yahoo.com

Personal details

- Date and place of birth: 23 February 1980 , Kiev, Ukraine
- Marital status: Single. No Children.

Education

September 1997 – June 2003–"Institute of Applied System Analysis", the National Technical University of Ukraine "Kiev Polytechnic Institute". Bachelor's and master's degrees in computer science, specialty – "Intelligence systems for decision making".
January 2002 – June 2002 – Students exchange program in Germany at the Technical University of Munich, the Faculty of Electrical and Information Engineering. Worked on a part of the project "European Installation Bus(EIB) for house-automation (Intelligent House) technology for transmission of device information". Designed and developed of a database for storage of EIB devices values.
April 2005 – entered Graduate School of Informatics of Kyoto University, Japan.
February 2006 – took entrance exams to enter the PhD course in April 2006. Intelligence systems department of the Graduate School of Informatics, Kyoto University. Research interests lie in: Embodied conversational agents, robots, modeling of non-verbal communicational behaviors.

Software development tools and technologies

Delphi, C/C++, Visual Studio(C++ /MFC), Oracle SQL,PL/SQL, MySQL, ODBC, Measurement Studio, ErWin, CorelDraw, Photoshop.

Languages

- English– excellent knowledge. Cambridge certificate in Advanced English
- German – excellent knowledge, technical translations. Certificate "Zentrale Mittelstufenpruefung" with distinction.
- French – good knowledge, Certificate "DELF"
- Japanese – intermediate knowledge, Certificate of passing Japanese Language Proficiency test(Noryoku shiken), 2 level.
- Spanish – basic knowledge
- Ukrainian, Russian – mother tongues

Hobbies

Kyudo(Japanese archery), Aikido, Japanese culture in general, learning of foreign languages and cultures, reading, music, tap-dance, tourism, psychology.

Project to participate in:

“An Agent Based Multicultural User Interface in a Customer Service Application”

Relevant Skills:

1) Theoretical background in ECA:
- familiar with works of J.Cassel, T.Bickmore, Y.Nakano on development of agent based interfaces, implementation of non-verbal behaviors, development of ECA’s and robots with social behaviors and emotions;
- familiar with OpenAir protocol and blackboard concept;
- studied works in the field of psychology and anthropology on non-verbal and multicultural communication (A.Kendon, McNeil etc.);

2) Mathematical modeling background:
- have good knowledge of neural networks, Bayesian networks, fuzzy logic etc.
- both bachelor and master theses’ output were mathematical models and algorithms

3) Intercultural experience:
- have traveled to many and lived in several foreign countries(Germany , Japan)
- familiar with different European and some Asian cultures
- actively learn Japanese culture

4) Programming skills: please refer to the CV above

Possibility to bring a laptop: Yes.

eNTERFACE 2006
The SIMILAR NoE Summer Workshop on Multimodal Interfaces
July 17 - August 11, 2006
Faculty of Electrical Engineering and Computing
Dubrovnik, Croatia

Application

I would like to parcipate. I will hereby provide:

- CV
- Project preferences
- Skills

Curriculum Vitae (CV)

Name	Margus Treumuth
Position	PhD student Institute of Computer Science University of Tartu Estonia
Address	Fortuuna 1-16, Tartu, Estonia
E-mail	treumuth@ut.ee
Date of birth	05.02.1976
Educational history	2002, University of Tartu, BSc in Computer Science 2004, University of Tartu, MSc in Computer Science
Academic degrees	MSc in Computer Science from the University of Tartu, 2004, "A software tool for the Estonian Dialogue Corpus"
Current research program	Computational Linguistics, Dialogue Systems
Publications	M. Treumuth. A software tool for the Estonian Dialogue Corpus. Proceedings of the International Conference The Second Baltic Conference on Human Language Technologies, 4-5 Apr. 2005.

Project preferences

I would prefer to work on project no. 1. An Agent Based Multicultural User Interface in a Customer Service Application.

Other two preferred projects are:
No. 5. Introducing Network-Awareness for Networked Multimedia and Multi-modal Applications
No. 7. Emotion Detection in the Loop from Brain Signals and Facial Images

Skills
Good programming skills in PHP and Oracle database systems.
I have developed some practical conversational agents (air-travel assistant, theater schedule assistant).

I can and will certainly bring a very good laptop.

Best wishes,

Margus Treumuth

DIMITRIOS TZOVARAS

Date of Birth: Februrary 2, 1970
Parafentidou 83
55535 – Pylaia – Thessaloniki
Tel.: +30 6977 307787, +30 2310 329594
E-MAIL: Dimitrios.Tzovaras@iti.gr

◆ EDUCATION

1992-1997	**Ph.D. in the Electrical and Computer Engineering,** Electrical and Computer Engineering Department of the Polytechnic School of the Aristotle University of Thessaloniki. **Supervisor: Prof. Michael G. Strintzis**. Ph.D. thesis title: ***"2D and 3D Image Compression"***.
1987-1992	**Electrical and Computer Engineering Degree,** Electrical and Computer Engineering Department of the Polytechnic School of the Aristotle University of Thessaloniki. **Final Grade 9, rank 4/200**. Diploma thesis title: ***"Stereoscopic Image Compression Using Neural Networks"***.

◆ RESEARCH – PROFESSIONAL EXPERIENCE

- **Managing Director, VRSENSE S.A.**, since February 2005.
- **Researcher Grade B' (Associate Professor)**, Centre for Research and Technology – Hellas, Informatics and Telematics Institute (CERTH/ITI) since 16/2/2006.
- ***Researcher Grade C' (Assistant Professor)***, Centre for Research and Technology – Hellas, Informatics and Telematics Institute (CERTH/ITI) since 10/1/2003.
- ***Researcher Grade D' (Lecturer)***, Centre for Research and Technology – Hellas, Informatics and Telematics Institute (CERTH/ITI) since 10/1/2000.

Scientific responsible in the following R&D projects of CERTH/ITI:

2005-	**HUMABIO:** Human Monitoring and Authentication using Biodynamic Indicators and Behavioural Analysis, IST-STREP", 2006-2008, ITI budget € 828.180.
2005-	**GoodRoute:** Dangerous Goods Transportation Routing and Monitoring", IST-STREP, 2006-2008, ITI budget € 600.000.
2005-	Advanced Methods of Visual Computing for Cultural Heritage Applications, (GSRT- PENED), ITI budget €14.700.
2004-	**ASK-IT:** Ambient Intelligence System of Agents for Knowledge-based and Integrated Services for Mobility Impaired Users, IP, IST FP6, funding: 160.000 Euro.
2004-	**3DTV:** Integrated Three-Dimensional Television - Capture, Transmission and Display, NoE, IST FP6, funding: 330.000 Euro
2003-	**IntelCities**: Intelligent Cities, IP, IST FP6, CERTH/ITI funding : 60.000 Euro
2003-	**Sensation**: Advanced Sensor Development for Attention, Stress, Vigilance and Sleep / wakefulness Monitoring, IP, IST FP6, CERTH/ITI funding : 70.000 Euro

2003-	**SIMILAR**: The European Research Taskforce Creating Human-Machine Interfaces SIMILAR to humans, NoE, IST FP6, CERTH/ITI funding : 270.000 Euro
2003-	**VRLAB**: Experimental Remote Control Laboratories using Virtual Reality Technologies, GSRT-InfoSoc - "e-learning", CERTH/ITI funding:105.000 Euro
2003-	**REACH**: New Forms of Distributed Organization and Access to Cultural Heritage, GSRT-RTD CONS NP – Culture, CERTH/ITI funding:160.000 Euro
2003-	**APEIRO**: Interactive Presentation and Simulation of Ancient Greek Technologies, GSRT-RTD CONS NP – Culture, CERTH/ITI funding:160.800 Euro
2003-	**VR@THEATER**: Virtual Reality Toolbox for Theater Professionals, GSRT-RTD CONS NP – Culture, CERTH/ITI funding:125.000 Euro
2002-	**POLEIS**: Virtual Cultural Visits, GSRT PABET, CERTH/ITI funding: 45.000 Euro
2002-	**VRSENSE**: An Advanced Design Tool for Virtual Reality Applications, GSRT PRAXE, CERTH/ITI funding: 30.000 Euro
2002-	**A Virtual Environment** for Component Fitting with Application to Industrial Planning, CERTH/ITI funding: 30.000 Euro
2001-	**"ENORASI: Virtual Environments for the Training of Visually Impaired"** (IST-2000-25231), total budget for CERTH/ITI : 286.858 EURO.
2001-	**"REGNET: Regional Networks of Cultural Heritage"** (IST-2000-26336), total budget for CERTH/ITI : 83.500 EURO.
2001-	**"Telemedicine Services Provision Using the WAP Protocol"**, (Greek Secretariat for Research and Technology (GSRT), Greece-Cyprus Cooperation Programme).
2001	**"Study for the Design of Informatics Companies Providing E-Commerce Services"**, (Work contract from B.C.I. (Balkan Consulting & Investment) company).

Participation into the following projects :

2000	**"Transportation and Re-Installation of the Informatics and Telematics Institute in Thermi-Thessaloniki"** (GSRT EPET-II).
2000-	**"Supply and Installation of the Basic Infrastructure of the Informatics and Telematics Institute"**, (GSRT EPET-II).

- ***Post Doctoral Research cooperation***, Centre for Research and Technology – Hellas, Informatics and Telematics Institute, (CERTH/ITI) for the period 1/5/1999 – 10/1/2000.

Participation into the following R&D projects:

1999-	**"Value added e-Services for the Reconstruction Programmes of the Balkan Economies"**, (GSRT, EPET-II).
1999-2000	**"GAIA**: **Design and Development of Educational Multimedia Software for the Greek Curriculum"**, (Greek Ministry of Education, EPEAEK).
1999-2000	**"High Speed 3D and Color Interface to the Real World"** (IST-1999-10087).

- **Gnomon Informatics** software house, Medical Image Analysis, 1998-1999.

- ***Informatics Technology Support Center***, Aristotle University of Thessaloniki, 1998-1999.

- Member of the research group of the **Information Processing Laboratory, of the Electrical and Computer Engineering Department of the Aristotle University of Thessaloniki**, supervised by Prof. Michael G. Strintzis.

Participation in the following R&D projects:

1997-1999	**"VIDAS: VIDeo ASsisted with audio coding and representation"**, (ACTS II, 1996-2000).
1995-1997	**"NIKA: Generalised Medical Image Analysis and Management System"**, (GSRT, EPET-II).
1996-1999	**"Object Based Coding of Image Sequences"**, (GSRT-YPER).
1995-1999	**"Distance Learning Using Facial Image Sequence Coding and 3D Modeling"**, (GSRT-PENED).
1996-1999	**"PANORAMA: Package for New Autostereoscopic Multiview Systems and Applications"**, (EC ACTS 097).
1995-1998	**"SAMMIE: Software Applied to Multimodal Images and Education"**, (TELEMATICS for health).
1993-1998	**"Video Coding in Multimedia Communication"**, (COST 211quat, 1993-1998).
1992-1998	**"Stereoscopic Television"**, (COST 230, 1992-1998).
1992-1996	**"DISTIMA: Digital Stereoscopic Imaging and Applications"**, (EC RACE-II)

- Cooperation with engineering firms in Katsikas, Ioannina, Greece, 1994-2000.

- Public Electricity Company, Greece, 1989.

◆ TEACHING EXPERIENCE

2001-2003	"**Computers I**" and "**Computers II**", University of Macedonia, Department of Economics, Visiting Professor (407).
1992-2000	Teacher in more than twenty seminars at the **Aristotle University of Thessaloniki**, in the "**Psyfion**" and "**Aristotelis**" KEK and the **University of Macedonia**.
1993-1998	"Pattern Recognition", **Electrical and Computer Engineering Department, Polytechnic School, Aristotle University of Thessaloniki**.
1992-1998	"Time Series Analysis", **Electrical and Computer Engineering Department, Polytechnic School, Aristotle University of Thessaloniki**.
1992-1994	"Numerical Analysis", **Electrical and Computer Engineering Department, Polytechnic School, Aristotle University of Thessaloniki**.

◆ FOREIGN LANGUAGES

English	Very good knowledge. First Certificate in English (University of Cambridge)

◆ HONORS AND AWARDS

1987-1992	Scholarship from the Foundation for National Scholarships
1990-1992	Scholarship from the Greek Chamber of Technology

◆ REVIEWER

Dr. Tzovaras has served as a reviewer for a large number of scientific journals and international conferences (IEEE Trans. Image Processing, IEEE Trans. Circuits and Systems for Video Technology, IEEE Trans. Medical Imaging, etc.).

He has also served as an evaluator for the 8th Call of the IST Programme of the FP6 and the Greek Secretariat for Research and Technology Programmes.

◆ TECHNICAL SKILLS

Operating Systems:	UNIX, WINDOWS, DOS
Programming Languages:	C, C++, VRML, PHP, PASCAL, FORTRAN
Data Processing:	MATLAB
Word Processing:	LaTEX, WORD

◆ SCIENTIFIC INTERESTS

- Virtual reality, multimodal interfaces, human-computer interaction, multimedia, visualizations, image and video compression and coding, content-based search and retrieval, image processing, computer vision, interactive TV, stereoscopic TV, e-commerce, parallel processing, grid applications.

◆ TECHNICAL ACTIVITIES

- Member of the Technical Chamber of Greece.
- Member SPIE, 1997-1999.

◆ PUBLICATIONS (http://www.iti.gr/db.php/en/publications/Dimitrios_Tzovaras.html)

Book Chapters

[1] **D. Tzovaras**, G. Nikolakis, G. Fergadis, S. Malassiotis and M. Stavrakis, "Virtual Environments for the Training of Visually Impaired", S Keates, PJ Clarkson, PM Langdon and P Robinson (eds.), *Universal Access and Assistive Technology*, SPRINGER-VERLAG LONDON LIMITED, London, March 2002.

[2] Ioannis Tsampoulatidis, **Dimitrios Tzovaras** and M.G.Strintzis: "Ontology-Based E-government Thematic Services Based on Topic Maps", *On the Move to Meaningful Internet Systems 2004*, eds. R. Meersman, Z. Tari and A. Corsaro, Springer-Verlag Heidelberg, October 2004.

[3] N. Karatzoulis, K. Davarakis and **D. Tzovaras**, "Synthesis and Analysis Techniques for the Human Body: R&D Projects", in *Strintzis and Sarris Editors, 3D Modeling and Animation: Synthesis and Analysis Techniques for the Human Body* IDEA Group Publishing, 2004.

[4] G. Nikolakis, G. Fergadis, **D. Tzovaras** and M. G. Strintzis, "A Mixed Reality Learning Environment for Geometry Education", in *Lecture Notes in Artificial Intelligence*, Springer Verlag, 2004.

[5] **D. Tzovaras** "Multimodal Interfaces for people with Disabilities", in SIMILAR Dreams, <ultimodal Interfaces in Our Life, UCL Presses, pp 107-131,ISBN:2-930344-91-1.

[6] P.Daras, D. Zarpalas, **D.Tzovaras**, D. Simitopoulos and M.G.Strintzis: "Combined Indexing and Watermarking of 3D Models using the Generalized 3D Radon Transform", in Multimedia Security Handbook, B.Fuhrt and D.Kirouski Eds, CRC Press, pp 733-758, ISBN 0-8493-2773-3, December 2004.

[7] K. Moustakas, G. Nikolakis**, D. Tzovaras** and M.G. Strintzis: "Haptic Access to Virtual Models of Real Data for Training the Visually Impaired", Applied Technologies in Medicine and Neuroscience, Verlag Integrative Psychiatrie, ISBN 3-85184-027-5, June 2005.

[8] K. Moustakas, G. Nikolakis, **D. Tzovaras** and M.G. Strintzis: "Haptic Interface for the Performance of a Remote Echography Examination", Applied Technologies in Medicine and Neuroscience, Verlag a Remote Echography Examination, June 2005.

[9] G. A. Triantafyllidis, N. Thomos, G. Nikolakis, **D. Tzovaras**, G. Litos and M. G. Strintzis, "User Interface environment and Image Communication in Mobile Tele-Echography", *M-Health: Emerging Mobile Health Systems*, Kluwer Academics, December 2005.

[10] K. Moustakas , P. Daras, **D. Tzovaras** and M.G. Strintzis, "Interactive Simulation of Deformable Objects for Medical Applications", Encyclopedia of Biomedical Engineering, John Wiley & Sons, accepted for publication.

[11] G. Nikolakis, D. Koutsonanos, P. Daras, K. Moustakas, **D. Tzovaras** and M.G. Strintzis, "Haptic Interaction in Medical Virtual Environments, Encyclopedia of Biomedical Engineering, John Wiley & Sons, accepted for publication.

Refereed Journals:

[1] **D. Tzovaras**, M. G. Strintzis, H. Sahinoglou, "Evaluation of Multiresolution Techniques for Motion and Disparity Estimation", *Signal Processing:Image Communication*, Vol. 6, No. 1, Mar. 1994, pp. 59-67.

[2] N. Grammalidis, S. Malassiotis, **D. Tzovaras**, and M. G. Strintzis, "Stereo Image Sequence Coding based on 3-D Motion Estimation and Compensation", *Signal Processing:Image Communication*, Vol. 7, 1995, pp. 129-145.

[3] **D. Tzovaras**, N. Grammalidis, and M. G. Strintzis, "Joint Three-Dimensional Motion/Disparity Segmentation for Object-Based Stereo Image Sequence Coding", *SPIE Optical Engineering Journal, Special Section on Visual Communications and Image Processing*, Vol.35, No.1, Jan. 1996, pp.137-144.

[4] **D. Tzovaras**, N. Grammalidis, M. G. Strintzis, "Object-Based Coding of Stereo Image Sequences using Joint 3-D Motion/Disparity Compensation", *IEEE Trans. on Circuits and Systems for Video Technology*, Vol. 07, No. 2, Apr.1997, pp. 312-328.

[5] S. N. Efstratiadis, **D. Tzovaras**, M. G. Strintzis, "Hierarchical Partition Priority Wavelet Image Compression", *IEEE Trans. on Image Processing*, Vol. 5, No. 7, July 1996, pp. 1111-1124.

[6] **D. Tzovaras**, N. Grammalidis, and M. G. Strintzis, "3-D Camera Motion Estimation and Foreground / Background Separation for Stereoscopic Image Sequences," *Optical Engineering*, vol. 36, No. 2, Feb. 1997, pp. 574-579.

[7] A. Saflekos, **D. Tzovaras**, S. Malassiotis and M. G. Strintzis, "Coding of 3D Moving Medical Data using a 3D Warping Technique," *Signal Processing, (Fast Communications Section)*, 55(2), Dec. 1996, pp. 247-252.

[8] **D. Tzovaras**, N. Grammalidis and M. G. Strintzis, "Disparity Field and Depth Map Coding for Multiview 3D Image Generation," *Signal Processing : Image Communication*, Vol. 11, No. 3, Jan 1998, pp. 205-231.

[9] **D. Tzovaras**, S. Vachtsevanos and M. G. Strintzis, "Optimization of Quadtree Segmentation and Hybrid 2D and 3D Motion Estimation in a Rate-Distortion Framework," *IEEE Trans. on Selected Areas in Communications, Special Issue on Very Low Bit Rate Coding*, Vol. 15, No. 9, Dec. 1997, pp. 1726-1738.

[10] **D. Tzovaras**, N. Grammalidis, M. G. Strintzis and S. Malassiotis, "Coding for the Storage and Communication of Visualizations of 3D Medical Data," *Signal Processing: Image Communication*, Vol. 13, No. 1, Jul. 1998, pp. 65-87.

[11] M. G. Strintzis and **D. Tzovaras**, "Optimal Construction of Subband Coders Using Lloyd-Max Quantizers," *IEEE Trans. on Image Processing*, Vol. 7, No.5, May 1998, pp. 649-667.

[12] M. G. Strintzis and **D. Tzovaras**, "Optimal Pyramidal Decomposition for Progressive Multidimensional Signal Coding using Optimal Quantizers," *IEEE Trans. on Signal Processing, Special Issue on Theory and Applications of Filter Banks and Wavelets*, Vol. 46, No. 4, Apr. 1998, pp. 1054-1068.

[13] **D. Tzovaras** and M. G. Strintzis, "Motion and Disparity Field Estimation using Rate-Distortion Optimization", *IEEE Trans. On Circuits and Systems for Video Technology*, Vol. 8, No. 2, Apr. 1998, pp. 171-181.

[14] **D. Tzovaras**, S. Vachtsevanos and M. G. Strintzis, "Optimization of Wireframe Model Adaptation and Motion Estimation in a Rate-Distortion Framework", *International Journal of Imaging Systems and Technology (IJIST) Special Issue in Image Sequence Processing, Motion Estimation, and Compression of Image Sequences*, Vol.9, Jan. 1998, pp.238-247.

[15] M. G. Strintzis and **D. Tzovaras**, "Optimal Pyramidal and Subband Decompositions for the Hierarchical Representation of Vector Valued Signals", *Signal Processing*, Vol. 65, No. 1, July 1998.

[16] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "Flexible 3D Motion Estimation and Tracking for Multiview Image Sequence Coding", *Signal Processing: Image Communication, Special Issue on 3D Video Technology*, no. 14, 1998, pp. 95-110.

[17] **D. Tzovaras** and M. G. Strintzis, "Use of Non Linear Principal Component Analysis and Vector Quantization for Image Sequence Coding", *IEEE Trans. Image Processing, Special Issue on Applications of Neural Networks to Image Processing*, Vol. 7, No. 8, Aug. 1998, pp. 1228-1222.

[18] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "3-D Model-Based Segmentation of Videoconference Image Sequences", *IEEE Trans. on Circuits and System for Video Technology*, Vol. 8, No. 5, September 1998.

[19] **D. Tzovaras**, I. Kompatsiaris and M. G. Strintzis, "3D Object Articulation and Motion Estimation in Model-Based Stereoscopic Videoconference Image Sequence Analysis and Coding", *Image Communication*, Vol. 14, No. 9, August 1999.

[20] **D.Tzovaras**, N.Ploskas, M.G.Strintzis: "Rigid 3D Motion Estimation Using Neural Networks and Initially Estimated 2D Motion Data", *IEEE Trans. on Circuits and Systems for Video Technology*, Vol.10, No.1, pp.158-166, February 2000.

[21] **D.Tzovaras** and M.G.Strintzis: "Optimal Construction of Reduced Pyramids for Lossless and Progressive Image Coding*", IEEE Trans. on Circuits and Systems II*, Vol.47, No.4, pp.332-340, April 2000.

[22] I.Kompatsiaris, **D.Tzovaras**, V.Koutkias and M.G.Strintzis: "Deformable Boundary Detection of Stents in Angiographic Images", *IEEE Trans. on Medical Imaging*, Vol. 19, No.6, pp. 652-662, June 2000.

[23] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "Occlusion and Visible Backgroumd and Foreground areas in Stereo: A Bayesian Approach", *IEEE Trans. on Circuits and Systems for Video Technology*, *Special Issue on 3D Video Technology*, Vol.10, No.4, pp.563-576, June 2000.

[24] **D.Tzovaras** and M.G.Strintzis: "Lossless Coding of Multichannel Signals Using Optimal Vector Hierarchical Decomposition", *IEEE Trans. on Image Processing*, Vol. 9, No. 10, pp.1811-1817, October 2000.

[25] N.V.Boulgouris, **D.Tzovaras** and M.G.Strintzis: "Lossless Image Compression Based on Optimal Prediction, Adaptive Lifting and Conditional Arithmetic Coding", *IEEE Trans.on Image Processing*, Vol.10, No.1, pp. 1-14, January 2001.

[26] **D.Tzovaras**, N.V.Boulgouris, K.Argyraki and M.G.Strintzis: "Rate-distortion Optimal Fast Thresholding for MPEG-2 Image Sequence", *European Transactions on Telecommunications*, Vol. 12, No. 3, pp.189-195, May 2001.

[27] I. Kompatsiaris, **D.Tzovaras** and M.G.Strintzis: "Hierarchical Representation and Coding of Surfaces using 3D Polygon Meshes", *IEEE Trans. on Image Processing*, vol 10, no. 8, pp.1133-1151, August 2001.

[28] G.Triantafyllidis, **D.Tzovaras**, D.Sampson and M.G.Strintzis: "Combined Frequency and Spatial Domain Algorithm for the Removal of Blocking Artifacts", *EURASIP Journal on Applied Signal Processing (JASP), Special Issue on Image Analysis for Multimedia Interactive Services, Part II*, vol. 2002(6), pp. 601-612, June 2002.

[29] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "A Bayesian Approach for Segmentation in Stereo Image Sequences", *EURASIP Journal on Applied Signal Processing (JASP), Special Issue on Signal Processing for 3D Imaging and Virtual Reality*, Vol. 2002, No. 10, October 2002.

[30] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "Blocking Artifact Detection and Reduction in Compressed Data", *IEEE Trans. on Circuits and Systems for Video Technology*, Vol.12, No.10, pp.877-890, October 2002.

[31] N.Ploskas, D. Simitopoulos, **D.Tzovaras**, G.A.Triantafyllidis and M.G.Strintzis: "Rigid and Non-Rigid 3D Motion Estimation from Multiview Image Sequences", *Elsevier Signal Processing: Image Communication Journal*, Vol. 18, Issue 3, pp.185-202, March 2003.

[32] F.Tsalakanidou, **D.Tzovaras** and M.G.Strintzis: "Use of Depth and Color Eigenfaces for Face Recognition", *Elsevier Mathematics & Computer Science: Pattern Recognition Letters*, vol. 24/9-10, pp. 1427-1435, June 2003.

[33] G.A.Triantafyllidis, M.Varnuska, D.Sampson, **D.Tzovaras** and M.G.Strintzis: "An Efficient Algorithm for the Enhancement of JPEG Coded Images", *Computers & Graphics: An International Journal of Systems & Applications in Computer Graphics*, vol. 27(4), pp. 529-534, August 2003.

[34] **D.Tzovaras**, G.Nikolakis, G.Fergadis, S.Malasiotis and M.Stavrakis: "Design and Implementation of Haptic Virtual Environments for the Training of Visually Impaired", *IEEE Trans. on Neural Systems and Rehabilitation Engineering*, Vol. 12, No. 2, pp.266-278, June 2004.

[35] I.Kolonias, **D.Tzovaras**, S.Malasiotis and M.G.Strintzis: "Fast Content-Based Search of VRML Models Based on Shape Descriptors", *IEEE Trans. on Multimedia*, Vol. 7, No 3, pp. 114-126, February 2005.

[36] K. Moustakas, **D.Tzovaras**, and M.G.Strintzis: "Stereoscopic Video Generation Based on Efficient Structure and Motion Estimation from a Monoscopic Image Sequence", *IEEE Transactions on Circuits and Systems for Video Technology*, Vol 15, No8, pp 1065-1073, August 2005.

[37] P. Daras, D. Zarpalas, **D.Tzovaras** and M.G.Strintzis: "Efficient 3D Model Search and Retrieval Using Generalized 3D Radon Transforms", *IEEE Trans. on Multimedia*, accepted for publication.

[38] K. Moustakas, **D. Tzovaras** and M.G. Strintzis, "SQ-Map: Efficient Layered Collision Detection and Haptic Rendering", IEEE Transactions on Visualization and Computer Graphics, accepted for publication.

Conferences:

[1] **D. Tzovaras**, M. G. Strintzis and I. Pitas, "Image Coding Using Non-linear Principal Component Analysis and Vector Quantization", in *Proc. ISSSE'92 Int'l Conference*, Paris, Sept 1992.

[2] **D. Tzovaras**, M. G. Strintzis, and I. Pitas, "Stereo Quantization Error Analysis for Convergent Camera Configurations", *in XXIVth General Assembly of the International Union of Radio Science (URSI)*, Kyoto, Japan, Aug. 1993.

[3] **D. Tzovaras**, M. G. Strintzis, H. Sahinoglou, I. Pitas, "Use of Multiresolution Techniques for Vector Field Coding in Motion and Disparity Estimation", in *Proc. International Congress on Communication and Control*, Rhodes, Greece, Jun. 1993.

[4] **D. Tzovaras**, M. G. Strintzis, H. Sahinoglou, I. Pitas, "Multiresolution Block Matching Techniques for Motion and Disparity Estimation", in *Picture Coding Symposium '93, (PCS '93)*, Lausanne, Switzerland, March 1993.

[5] **D. Tzovaras**, S. N. Efstratiadis and M. G. Strintzis, "Wavelet Image Compression using IIR Minimum Variance Filters, Partition Priority, and Multiple Distribution Entropy Coding", *in SPIE Conference on Visual Communications and Image Processing*, Chicago, pp. 489-500, Sep. 1994.

[6] **D. Tzovaras**, N. Grammalidis and M. G. Strintzis, "Object-Based Coding of Stereo Image Sequences using Joint 3D Motion/Disparity Segmentation", in *Visual Communications and Image Processing '95*, Taiwan, May 1995.

[7] N. Grammalidis, S. Malassiotis, **D. Tzovaras**, and M. G. Strintzis, "3-D Motion Estimation and Compensation for Stereoscopic Image Sequence Coding", in *Proc. 4th European Workshop on 3DTV*, Rome, 1993.

[8] **D. Tzovaras**, N. Grammalidis, S. Malassiotis, M. G. Strintzis, "Coding for Monoscopic and Stereoscopic 3-D Medical Data Visualization", in *Int 'l. Workshop on Image Processing*, Budapest, Hungary, Jun. 1994.

[9] **D. Tzovaras**, N. Grammalidis, S. Malassiotis, L. Kontis, C. Chrysafis, G. Georgiou, H. Sahinoglou and M. .G. Strintzis, "Coding and Transmission of Medical Imagery", in *Proc. 3rd Int'l Conference on Medical Informatics*, Thessaloniki, May 13-15, 1994.

[10] **D. Tzovaras** and M. G. Strintzis, "Image Sequence Coding Based on 3D Model Objects", in *Proc. International Congress on Communication and Control 95, Rhodes, Greece, Jun. 1995*.

[11] N. Grammalidis, **D. Tzovaras** and M. G. Strintzis, "Temporal Frame Interpolation for Stereoscopic Sequences using Object-based Motion Estimation and Occlusion Detection", in *Proc. International Congress on Communication and Control 95, Rhodes, Greece, Jun. 1995*.

[12] N. Grammalidis, **D. Tzovaras** and M. G. Strintzis, "Temporal Frame Interpolation for Stereoscopic Sequences using Object-based Motion Estimation and Occlusion Detection", in *Int'l Conf. on Image Processing (ICIP'95)*, Washington, D.C., USA, Oct. 1995.

[13] M. G. Strintzis, **D. Tzovaras**, N. Grammalidis, "Depth Map and Disparity Field Coding for the Communication of Multiview Images", Invited paper, in *Int'l Conference on Digital Signal Processing (DSP'* 95), Nicosia, Cyprus, Jun. 1995.

[14] **D. Tzovaras** and M. G. Strintzis, "Triangular Hierarchical Interpolation Algorithm for Lossless 2-D and 3-D Medical Data Compression", in *Int'l Workshop on Stereoscopic and Three Dimensional Imaging*, (Santorini), Greece, 6-8 Sep. 1995.

[15] **D. Tzovaras**, N. Grammalidis and M. G. Strintzis, "Depth Map Coding for Stereo and Multiview Image Sequence Transmission", in *Int'l Workshop on Stereoscopic and Three Dimensional Imaging*, (Santorini), Greece, 6-8 Sep. 1995.

[16] **D. Tzovaras**, N. Grammalidis, M. G. Strintzis, S. Malasiotis and H. Sahinoglou, "Coding for the Transmission and Storage of 3-D Medical Data", in *Proc. 1995 IEEE Medical Imaging Conference*, San Francisco, Oct. 25-28, 1995.

[17] **D. Tzovaras** and M. .G. Strintzis, "Image Sequence Coding Based on 3D Model Objects", in *Proc. 8th International Symposium on Theoretical Electrical Enginnering*, Thessaloniki, Greece, Sep. 1995.

[18] **D. Tzovaras** and M. G. Strintzis, "Use of Three Cameras to Improve Disparity Estimation for Spatial Image Interpolation and Coding", in *Picture Coding Symposium, PCS' 96*, Melbourne, Australia, Apr. 1996.

[19] **D. Tzovaras** and M. G. Strintzis, "Motion Estimation Using Rate Distortion Theory for Very Low Bit Rate Image Sequence Coding", in *Int'l Conf. on Communications*, Istanbul, Turkiye, 13-17 Apr. 1996.

[20] M. G. Strintzis and **D. Tzovaras**, "Optimal Subband Image Coders With Lloyd-Max Quantizers," *IMAGE COM. 96 Conference*, Bordeaux, France, May 1996.

[21] **D. Tzovaras**, and M. G. Strintzis, "3-D Camera Motion Estimation for Stereoscopic Image Sequences," *IMAGE' COM 96 Conference*, Bordeaux, France, May 1996.

[22] **D. Tzovaras**, and M. G. Strintzis, "Coding of Multichannel Images Using Optimal Vector Hierarchical Decomposition," *4th Bayona Workshop on Intelligent Methods in Signal Processing and Communications*, Bayona-Vigo, SPAIN, June 1996.

[23] **D. Tzovaras**, and M. G. Strintzis, "Use of Non-Linear Principal Component Analysis and Vector Quantization for Image Coding," *4th Bayona Workshop on Intelligent Methods in Signal Processing and Communications*, Bayona-Vigo, SPAIN, June 1996.

[24] **D. Tzovaras**, and M. G. Strintzis, "Optimal Vector Pyramidal and Subband Decompositions for the Coding of Multichannel Signals," *IEEE Workshop on Digital Signal Processing (DSPWS'96)*, Norway, Sep. 1996.

[25] M. G. Strintzis and **D. Tzovaras**, "Optimal Hierarchical Decompositions for Signals Coded Using Lloyd-Max Quantizers," *IEEE Workshop on Digital Signal Processing (DSPWS' 96)*, Norway, Sep. 1996.

[26] A. Saflekos, **D. Tzovaras**, S. Malassiotis and M. G. Strintzis, "Lossless and Lossy Coding of 3D Moving Heart Muscle MRI Data," *in the Int'l Conf. IEEE Computers in Cardiology*, USA, Sep. 1996.

[27] **D. Tzovaras**, N. Grammalidis and M. G. Strintzis, "Disparity Field and Depth Map Coding for Multiview Image Sequence Compression," *in IEEE Conf. on Image Processing (ICIP'96)*, Lausanne, Sep. 1996.

[28] M. G. Strintzis and **D. Tzovaras**, "Optimal Subband Image Coders Using Lloyd-Max Quantizers," *in IEEE Conf. on Image Processing (ICIP'96)*, Lausanne, Sep. 1996.

[29] M. G. Strintzis, **D. Tzovaras**, T. Sevintikidis and G. Gioumousia, "Optimal Pyramidal and Subband Decompositions for Hierarchical Coding of Noisy and Quantized Images," *in IEEE Conf. on Image Processing (ICIP'96)*, Lausanne, Sep. 1996.

[30] **D. Tzovaras** and M. G. Strintzis, "Optimal Vector Pyramidal and Subband Decompositions for the Coding of Multichannel Images," *in Int'l Workshop on Image Processing '96*, Manchester, UK, Nov. 1996.

[31] A. Saflekos, **D. Tzovaras**, S. Malassiotis and M. G. Strintzis, "Lossless and Lossy Coding of 3D Moving Medical Data," *in the 18th Int'l Conf. IEEE Engineering in Medicine and Biology (EMBS '96)*, Amsterdam, The Netherlands, Nov. 1996.

[32] **D. Tzovaras** and M. G. Strintzis, "Motion and Disparity Estimation Using Rate Distortion Theory for Very Low Bit Rate and Multiview Image Sequence Coding," *in the SPIE Visual Communications and Image Processing '97*, Vol. #3024, Feb. 1997.

[33] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "3D Motion Estimation and Object Articulation in Model-Based Stereoscopic Videoconference Image Sequence Coding", *Proceedinds 2nd Erlangen Symposium on ADVANCES IN DIGITAL IMAGE COMMUNICATION*, pp. 123-132, Erlangen, April 25, 1997.

[34] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "Use of Object Articulation and Motion Estimation for Video Production", *Proceedings Second European Conference on Multimedia Applications Services and Techniques(ECMAST'97)*, pp. 345-357, Milan, May 21-23, 1997.

[35] **D. Tzovaras** and M. G. Strintzis, "Optimal Reduced Pyramid Interpolation for Lossless and Progressive Image Coding," *in the First IEEE Signal Processing Society Workshop on Multimedia Signal Processing*, Princeton, USA, Jun. 1997.

[36] **D. Tzovaras** and M. G. Strintzis, "Hopfield Network for Stereo Correspondence Using Block-Matching Techniques," *in AIENG 97*, Capri (Naples), Italy, Jul. 1997.

[37] **D. Tzovaras** and M. G. Strintzis, "Disparity Estimation Using Rate-Distortion Theory for Stereo Image Sequence Coding," *in the IEEE 1997 Conference on Digital Signal Processing*, Santorini, Greece, Jul. 1997.

[38] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "Tracking of Deformable Surfaces in Multiview Image Sequence Coding" in *13th IEEE International Conference on Digital Image Processing (DSP'97)*, Vol I, pp. 417-420, Santorini, July 1-3, 1997.

[39] **D. Tzovaras**, N. Ploskas and M. G. Strintzis, "Rigid 3D Motion Estimation Using Neural Networks and Initially Estimated 2D Motion Data," *in IWSNHC3DI'97*, Rhodes, Greece, Sep. 1997.

[40] **D. Tzovaras**, I. Kompatsiaris and M.G. Strintzis, "3D Object Articulation and Motion Estimation for Efficient Multiview Image Sequence Coding" in *IEEE International Conference on Image Processing (ICIP'97)*, Santa Barbara, October 26-29, 1997.

[41] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "Model Based Tracking of 3D Deformations in Multiview Image Sequences", *IEEE International Workshop on MODEL-BASED 3D IMAGE ANALYSIS (in conjunction with ICCV'98)*, Mumbai, India, January 3, 1998.

[42] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "3D Model Based Non-Rigid Motion Estimation for Multiview Image Sequences Compression", in *Visual Communications and Image Processing '98*, San Jose, USA, January 24-30, 1998.

[43] **D. Tzovaras**, S. Vachtsevanos and M. G. Strintzis, "Optimization of Wireframe Model Adaptation and Motion Estimation in a Rate-Distortion Framework," *in the Eusipco'98 Workshop, Special Section in ``Video Compression and Communication*', Rhodes, Greece, Sep. 1998.

[44] **D. Tzovaras**, N. Karagiannis and M. G. Strintzis, "Robust Image Watermarking in the Subband or Discrete Cosine Transform," *in the Eusipco'98 Workshop, Special Section in Watermarking*, Rhodes, Greece, Sep. 1998.

[45] **D. Tzovaras** and M. G. Strintzis, "Optimal Construction of Reduced Pyramids for Lossless and Progressive 3D Volume Data Coding", *in IEEE Image and Multi-dimensional Digital Signal Processing (IMDSP'98)*, Austria, Jun. 1998.

[46] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "3D Model Based Analysis and Segmentation of Videoconference Image Sequences", *IEEE Image and Multi-dimensional Digital Signal Processing (IMDSP) Workshop 1998*, Alpbach, Austria, July 12-16, 1998.

[47] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "3D Model Based Segmentation of Videoconference Image Sequences", *IEEE International Conference on Image Processing '98 (ICIP'98)*, Chicago, Illinois, USA, October 4-7, 1998.

[48] I. Kompatsiaris, **D. Tzovaras** and M.G. Strintzis, "Object Articulation Based on Local 3D Motion Estimation", *European Conference on Multimedia Applications, Services and Techniques (ECMAST'99)*, Madrid, Spain, May 26-28, 1999.

[49] **D. Tzovaras**, D. Koutsos and M. G. Strintzis, "Efficient Head Detection Based on Color Eigenfaces", in *IWSNHC3DI'99*, Santoirini, Greece, Sep. 1999.

[50] N. Liogas, **D. Tzovaras** and M. G. Strintzis, "VRML 2.0 Authoring Tool Based on SGI's COSMO 3D", *in IWSNHC3DI'99*, Santorini, Greece, Sep. 1999.

[51] G. Triantafyllidis, **D. Tzovaras** and M. G. Strintzis, "Efficient Classification of Occlusion Areas in Stereo Pairs", *in IWSNHC3DI'99*, Santorini, Greece, Sep. 1999.

[52] I.Kompatsiaris, D.Tzovaras, V.Koutkias and M.G.Strintzis: "Deformable Boundary Detection of Stents in Angiographic Images", *SPIE Medical Imaging 2000*, San Diego, California USA, February 2000.

[53] I.Kompatsiaris, **D.Tzovaras** and M.G.Strintzis: "Hierarchical Representation of Surfaces using 3D Wireframes", *WSG'2000 international conference*, Plzen, Czech Republic, February 2000.

[54] I.Kompatsiaris, **D.Tzovaras**, V.Kontkias and M.G.Strintzis: "Deformable Boundary Detection of Stents in Angiographic Images", *SPIE's Int' Symposium Medical Imaging 2000*, San Diego, CA, February 2000.

[55] K.Argyraki, **D.Tzovaras**, N.V.Boulgouris and M.G.Strintzis: "Rate-Distortion Optimal Fast Thresholding for MPEG-2 Image Sequence Coding", *Packet Video 2000 Int'l Workshop*, Cagliari, May 2000.

[56] I.Kompatsiaris, **D.Tzovaras**, V.Koutkias, M.G.Strintzis: "Deformable Boundary Detection of Stents in Angiographic Images", *MIE 2000 Conference*, Hannover, August 2000.

[57] G.A.Triantafyllidis, **D.Tzovaras**, M.G.Strintzis: "A Bayesian segmentation of Stereopairs", *IEEE International Conference on Multimedia and Expo. (ICME2000)*, New York City, August 2000.

[58] **D. Tzovaras**, "Virtual Reality Applications in Art", *Images & Sounds of the Mediterranean* (invited paper), Spinalonga Festival 2000, Elounda, Crete, Greece, Sep. 26-30, 2000.

[59] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "A Compound Bayes Test for Detection of Occlusion and Visible Background and Foreground Areas in Stereo", *International Workshop on Digital and Computational Video, DCV'01*, February 2001.

[60] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "Blockiness Detection in Compressed Data", *IEEE International Conference on Acoustics, Speech, and Signal Processing ICASSP 2001*, Salt lake City, Utah, May 2001.

[61] I.Kolonias**, D.Tzovaras**, S.Malassiotis and M.G.Strintzis: "Content-Based Search of VRML Models Using Shape Descriptors", Proc. *Euroimage ICAV 3D 2001 Conference*, Mykonos, Greece, May 2001.

[62] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "DCT Coefficients adjustment for deblocking compressed images", Proc. *Euroimage ICAV 3D 2001 Conference*, Mykonos, Greece, May 2001.

[63] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "An Efficient Algorithm for Smoothing DCT Compression Artifacts", *5th WSES/IEEE World Multiconference on Circuits, Systems, Communications & Computers*, Rethymnon, Crete, July 2001.

[64] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "Occlusion Detection in Stereopairs", International Conference on Trends in Communications, *EUROCON 2001*, Bratislava, Slovakia, July 2001.

[65] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "Detection of Blocking Artifacts of Compressed Still Images", *11th International Conference on Image Analysis and Processing*, Palermo, Italy, September 2001.

[66] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "A Novel Algorithm for Blockiness Reduction", *EURASIP Conference on Digital Signal Processing for Multimedia Communications and Services*, Budapest, Hungary, September 2001.

[67] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "A Transform Domain Approach in Blocking Effect Detection", *International IEEE Conference on Electronics, Circuits and Systems, ICECS 2001*, Malta, September 2001.

[68] Ilias Kolonias, **Dimitrios Tzovaras**, Stratos Malassiotis and Michael G. Strintzis, "Content-Based Similarity Search of VRML Models Using Shape Descriptors", *International Workshop on Content-Based Multimedia Indexing*, University of Brescia, Italy, September 19-21, 2001.

[69] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "Blocking Artifact Reduction in Frequency Domain", *IEEE International Conference on Image Processing ICIP*, Thessaloniki, Greece, October 2001.

[70] I.Kolonias, **D.Tzovaras**, S.Malassiotis and M.G.Strintzis: "Fast Content-Based Search of VRML Models based on Shape Descriptions", accepted for presentation at the *International Conference of Image Processing, ICIP' 01*, Thessaloniki, Greece, October 2001.

[71] **D.Tzovaras**, N.Grammalidis, S.Malassiotis and M.G.Strintzis: "Coding for the transmission of 3D Medical Images", *International Conference of Image Processing, ICIP' 01*, Thessaloniki, Greece, October 2001.

[72] S.Petsas, **D.Tzovaras**, L.Makris and M.G.Strintzis: "WAP-based Personalised Health Care Services", Conference of the *IEEE Engineering in Medicine and Biology (EMBC 2001)*, Istanbul, Turkey, October 2001.

[73] N.Ploskas, **D.Tzovaras**, G.A.Triantafyllidis and M.G.Strntzis: "An Efficient Neural Network Approach for Rigid and Non-Rigid 3D Motion Estimation from Multiview Image Sequences", *Neuro Fuzzy Technologies Congress*, Cuba, January 2002.

[74] **D. Tzovaras**, G. Nikolakis, G. Fergadis, S. Malassiotis and M. Stavrakis, "Virtual Environments for the Training of Visually Impaired", *CUWATTS Conference*, Cambridge, March 2002, pp. 151-160.

[75] **D. Tzovaras**, G. Nikolakis, G. Fergadis, S. Malassiotis and M. Stavrakis, "Feasibility Study of a Human-Computer Interaction System for the Training of Visually Impaired", *2nd Hellenic Conf. On Artificial Intelligence (SETN-2002)*, Apr. 2002, Thessaloniki, Greece.

[76] **D. Tzovaras**, G. Nikolakis, G. Fergadis, S. Malassiotis and M. Stavrakis, "Design and Implementation of Virtual Environments for Training of the Visually Impaired", *International ASSETS 2002 SIGCAPH ACM Conference*, Edinburg, UK, July 2002.

[77] G.A.Triantafyllidis, D.Sampson, **D.Tzovaras** and M.G.Strintzis: "Blockiness Reduction in JPEG Coded Images", *14th International Conference on Digital Signal Processing*, pp. 1325-1328, Santorini, Greece, July 2002.

[78] S. Diplaris, N. Grammalidis, **D. Tzovaras** and M.G. Strintzis: "Generation of Stereoscopic Image Sequences Using Structure and Rigid Motion Estimation By Extended Kalman Filters", *IEEE International Conference on Multimedia and Expo*, Lausanne, Switzerland, August 2002.

[79] N.Ploskas, **D.Tzovaras**, G.A.Triantafyllidis and M.G.Strintzis: "A Neural Network Algorithm for Rigid 3D Motion Estimation from Multiview Image Sequences", *International Conference on Artificial Neural Networks ICANN* 2002, Madrid, Spain, August 2002.

[80] G.A.Triantafyllidis, **D.Tzovaras**, D.Sampson and M.G.Strintzis: "A Hybrid Algorithm for the removal of Blocking Artifacts", Proc. of the *IEEE International Conference on Multimedia and Expo*, pp. 161-164, Lausanne, Switzerland, August 2002.

[81] D. Simitopoulos, **D. Tzovaras**, M. G. Strintzis: "Image compression for indexing based on the encoding cost map", *11th European Signal Processing Conference (EUSIPCO 2002)*, Toulouse, France, Vol. III, pp. 463-466, September 2002.

[82] G.A.Triantafyllidis, **D.Tzovaras** and M.G.Strintzis: "Detection of Occlusion and Visible Background and Foreground Areas in Stereo Image Pairs", *International IEEE Conference on Electronics, Circuits and Systems, ICECS 2002*, Dubrovnik, Croatia, September 2002.

[83] S.Kyratzi, C.Collyda, G.Nikolakis, G.A.Triantafyllidis, **D.Tzovaras**, P.Daras and M.G.Strintzis: "A User Interface Environment in Mobile Tele-echography", *Proc. International Academic Conference on eHealth Telemedicine and Telecare, TELEMED 03*, London, January 2003.

[84] G. Nikolakis, G. Fergadis, **D. Tzovaras**, "Virtual Assembly Based on Stereo Vision and Haptic Force Feedback Virtual Reality", in *Proc. HCI International*, Crete, June 2003.

[85] K.Moustakas, **D.Tzovaras** and M.G.Strintzis: "Stereoscopic Video Authoring Tool based on Efficient Object-based Structure and Motion Estimation from a Monoscopic Image Sequence", *2nd International Workshop on ICTs, Arts and Cultural Heritage*, Athens, October 2003.

[86] P.Daras, D.Zarpalas, **D.Tzovaras** and M.G.Strintzis: "Generalized Radon Transform Based 3D Feature Extraction for 3D Object C classification", *5th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2004)*, Lisboa, Portugal, April 2004.

[87] G. Nikolakis, G. Fergadis, **D. Tzovaras** and M.G. Strintzis "A Mixed Reality Learning Environment for Geometry Education", *Setn 04 Proc*. Samos, May 2004.

[88] I.Tsampoulatidis, G.Nikolakis, **D.Tzovaras** and M.G.Strintzis: "Ontology Based Interactive Graphic Environment for Product Presentation", in *Proc. CGI 2004*, pp.644 - 647, Heraklion, Crete, Greece, June 2004.

[89] D.Zarpalas, P.Daras, **D.Tzovaras** and M.G.Strintzis: "3D Model Search and Retrieval Based on the 3D Radon Transform", *International Conference on Communications (ICC 2004)*, Multimedia Technologies and Services Symposium (MMTS), Paris, France, June 2004.

[90] K.Moustakas, **D.Tzovaras** and M.G.Strintzis: "Fast Hierarchical Simulation of Cloth and Deformable Objects using an Optimal Pyramidal Representation", *International Conference on Computer Animation and Social Agents, CASA2004*, Geneva, July 2004.

[91] K.Moustakas, G.Nikolakis, **D.Tzovaras** and M.G.Strintzis: "Extraction of 3D Scene Structure from a Video for the Generation of 3D Visual and Haptic Representations", *W3C Workshop on Multimodal Interaction*, Sophia Antipolis, France, July 2004.

[92] P.Daras, D.Zarpalas, **D.Tzovaras** and M.G.Strintzis: "3D Model Watermarking for Indexing Using the Generalized Radon Transform", *3D Data Processing, Visualization & Transmission (3DPVT 2004)*, Thessaloniki, September 2004.

[93] P.Daras, D.Zarpalas, **D.Tzovaras** and M.G.Strintzis: "Shape Matching Using the 3D Radon Transform", *3D Data Processing, Visualization & Transmission (3DPVT 2004)*, Thessaloniki, September 2004.

[94] K.Moustakas, **D.Tzovaras** and M.G.Strintzis: "A Non Causal Bayesian Framework for the Generation of Stereoscopic Image Sequences", *2nd International Symposium on 3D Data Processing, Visualization and Transmission (3DPVT'04)*, Thessaloniki, September 2004.

[95] G. Nikolakis, I. Tsampoulatidis, **D. Tzovaras** and M.G.Strintzis: "Haptic Browser: A Haptic Environment to Access HTML Pages", proceedings of the *9-th International Conference 'Speech and Computer' (SPECOM'2004)* St. Petersburg, September 2004.

[96] Georgios Nikolakis, **Dimitrios Tzovaras**, Serafim Moustakidis, M.G.Strintzis: "CyberGrasp and PHANTOM Integration: Enhanced Haptic Access for Visually Impaired Users", proceedings of the *9-th International Conference 'Speech and Computer' (SPECOM'2004)* St. Petersburg, September 2004.

[97] P.Daras, D.Zarpalas, **D.Tzovaras** and M.G.Strintzis: "3D Model Search and Retrieval Based on the Spherical Trace Transform", *IEEE International Workshop on Multimedia Signal Processing (MMSP 2004)*, Siena, Italy, October 2004.

[98] P.Daras, D.Zarpalas, **D.Tzovaras** and M.G.Strintzis: "Watermarking 3D Models for Data Hiding", *IEEE International Conference on Image Processing, ICIP 2004*, Vol. 1, pp. 47-50, Singapore, October 2004.

[99] K.Moustakas, **D.Tzovaras** and M.G.Strintzis: "Optimal Hierarchical Representation and Simulation of Cloth and Deformable Objects", *IEEE International Conference on Image Processing, ICIP2004*, Vol. 5, pp. 3013 – 3016, Singapore, October 2004.

[100] D. Koutsonanos, K. Moustakas, **D. Tzovaras** and M.G. Strintzis: "Interactive Cloth Editing and Simulation in Virtual Reality Applications for Theater Professionals", *5th International Symposium on Virtual Reality, Archaeology and Cultural Heritage (Eurographics)*, Brussels, December 2004.

[101] G. Nikolakis, **D. Tzovaras**, S. Malassiotis and M.G. Strintzis: "Simulation of Ancient Technology Works using Haptic Interaction and Gesture Recognition", *VAST 2004: 5th International Symposium on Virtual Reality, Archaeology and Cultural Heritage (Eurographics)*, Brussels, December 2004.

[102] K.Moustakas, G.Nikolakis, **D.Tzovaras** and M.G.Strintzis: "A Geometry Education Haptic VR Application Based on a New Virtual Hand Representation", in *IEEE VR2005*, pp. 245-248, Bonn, March 2005.

[103] K.Moustakas, G.Nikolakis, D. Koutsonanos, **D.Tzovaras** and M.G.Strintzis: "Haptic Feedback Using an Efficient Superquadric Based Collision Detection Method", in *First Joint Eurohaptics Conference and Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems*, pp. 649 – 650, Pisa, Italy, March 2005.

[104] K. Moustakas, P. Daras, **D. Tzovaras** and M.G. Strintzis: "Classification of 3D Models using Combined Semantical and Geometrical Information", in *First International Workshop Towards Semantic Virtual Environments (SVE2005)*, Villars, Switzerland, March 2005.

[105] A. Axenopoulos, P. Daras, **D. Tzovaras** and M. G. Strintzis: "3D Object Retrieval Using 3D Packet Wavelet Transform and Knowledge Interpretation", in *First International Workshop Towards Semantic Virtual Environments (SVE 2005)*, Villars, Switzerland, March 2005.

[106] D. Zarpalas, P. Daras, **D. Tzovaras** and M. G.Strintzis: "3D Model Search and Retrieval Based on Fourier Transforms", *6th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2005)*, Montreux, Switzerland, April 2005.

[107] P. Daras, D. Zarpalas, **D. Tzovaras** and M. G.Strintzis: "Protein Matching using Geometrical Characteristics", *6th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2005)*, Montreux, Switzerland, April 2005.

[108] G. Nikolakis, **D.Tzovaras**, S.Malassiotis and M.G.Strintzis: "Ancient Technology Works Presentation Using Haptic Interaction and Gesture Recognition", in *HCI International Conference 2005*, Las Vegas USA, July 2005, accepted for publication.

[109] K. Moustakas, D. Koutsonanos, **D. Tzovaras** and M.G.Strintzis: "Enhancing Costume designer Creativity Utilizing Haptic Interaction in Cloth Editing Applications", in *HCI International Conference 2005*, Las Vegas USA, July 2005, accepted for publication.

[110] K.Moustakas, G.Nikolakis, **D.Tzovaras** and M.G.Strintzis: "Haptic Interaction with a Virtual Environment Dynamically Created from a Monoscopic Video", in *HCI International Conference 2005*, Las Vegas USA, July 2005, accepted for publication.

[111] G.Nikolakis, K.Moustakas, **D.Tzovaras** and M.G.Strintzis: "Haptic Representation of Images for the Blind and the Visually Impaired", in *HCI International Conference 2005*, Las Vegas USA, July 2005, accepted for publication.

[112] D. Koutsonanos, M. Papadogiorgaki, E. Kalapanidas, **D. Tzovaras**, C.Davarakis and M.G.Strintzis: "Enhancing Electronic Music Tuition Systems with Virtual Reality Tools", 5th Open Workshop of MUSICNETWORK: Integration of Music in Multimedia Applications, Vienna, Austria, July 2005.

[113] P. Turner, S. Turner and **D. Tzovaras** "Reliving VE Day with Activated Schemata." In M. Slater (Ed.) Proc. 8 th International Workshop on Presence . London, 21st - 23rd September 2005, 33-38.

[114] **D.Tzovaras**, G. Nikolakis, T. Harissis, V. Matsos, K. Tanis, K. Karkaletsis "Ancient technology works presentation using interaction and gesture recognition" 2nd International Conference on Ancient Greek Technology, Athens, 17-21 October 2005, 43.

[115] A. Axenopoulos, P. Daras, D. Zarpalas, **D. Tzovaras** and M.G. Strintzis: "3D Content-based Search based on 2D Wavelet Transform", *IEEE International Conference on Image Processing (ICIP 2005)*, Genova, Italy, September 2005, accepted for publication.

[116] P. Daras, D. Zarpalas, **D. Tzovaras** and M.G. Strintzis: "3D Shape-Based Techniques for Protein Classification", *IEEE International Conference on Image Processing (ICIP 2005)*, Genova, Italy, September 2005, accepted for publication.

LUONG Hong Viet

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Marital status	Single
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PROFESSIONAL OBJECTIVES

- Domains of interest:
  1. Software Engineering, Semantic Web.
  2. Pattern recognition, image compression, speech processing.
- To obtain a PhD in Computer Science

EDUCATION

2004 - Présent	*Master in Computer Science* The Francophone Institute for Computer Science (IFI)
1999 - 2004	*Engineer of IT* Hanoi University of Technology
1996 – 1999	High school Hanoi-Amsterdam, Vietnam

COMPUTER SKILLS

Programming languages	C, C++, Microsoft Visual C++(MFC,ATL), Java, Visual Basic, Python, Pascal, JSP, Matlab
Programming tool	MS Visual Studio 98, MS Visual Studio 2003, Eclipse, KDevelop.
Data bases	MySQL, Access 2000, SQL Server 2000.
Method of analysis	UML.
Network	TCP/IP, OSI Model
Other skills	XML, RMI/RPC ,CORBA, COM/COM+

WORK EXPERIENCES

August 2005 – October 2005	- Collaboration with Vegasoft Project « SkyPath » - It is an application to communicate with Skype™ Internet phone (Skype) by using Skype's API (Application Program Interface) - Role: Project manager - C++ language and tool Microsoft Visual Studio 6.0
July 2003 – October 2004	*Engineer* Company Vegasoft JSC. (http://www.vegasoft.ws)

	– Design of system MailStartingSoft: It is an application to receive e-mail of server POP3 periodically. When it receives a specific e-mail, it will start or stop a service – Development of the system of help online "Live Help". Live Help is a system to help the remote users with video and phone. – Update of the Cytrader software. (Change of the interface of this software, and to add some functions) Role: Developer, System designer C++ language and tool Microsoft Visual Studio 6.0 and MS Visual Studio.NET Director : M. LE Huu Son
April 2003 - July 2003	Project: Graphic programming by using OpenGL Role: Designer and Developer C++ language and tool Microsoft Visual Studio 6.0
September 2002 - October 2002	Project: Management of the scholarship Role: Designer and Developer Language: Visual Basic and VBA. Tool: Microsoft Visual Basic 6.0

ACTIVITIES OF RESEARCH

October 2004 – July 2005	- Research theme - "Study the transformation into wavelet and application of the compression of the images"
January 2004 - May 2004	- Internship at Research center MICA (Multimedia Information Communication and Application) - Graduation project: "Study the method of enhancement of speech based on Hidden Markov model" - C++ language and tool Microsoft Visual Studio 6.0

GRANTS AND REWARDS

- Third price of contest of Physics of Hanoi of the high-school pupils in 1998
- Second price of Olympic of Physics of Vietnam in 1996.

LANGUAGES

French	Good (DELF A4)
English	Fluent

HOBBIES

Sport	Football, basket-ball, ping pong
Music	Play guitar, classic music

REFERENCES

- Mr. HO Tuong Vinh: Provost
  The Francophone Institute of Computer Science
  E-mail: htvinh@ifi.edu.vn

- Mr.LE Huu Son: Director of Vegasoft JSC
  E-mail: son@vegasoft.ws

Pascale Woodruff
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Email : pacaz@skynet.be

24 years old
Single
Belgian and Canadian

Young Electrical Engineer

- **2 years experience**
- **Bilingual in French and English**

Work Experience

Since 2004
TCTS - Multitel lab, Faculté Polytechnique de Mons
Position: **Research Engineer**
Mission: Development of a multimodal interface integrating speech recognition and synthesis in an embedded device intended to improve the efficiency of industrial maintenance.

2003
Elura Mine, Pasminco Group, Cobar, Australia
Position: **Electrical Engineer Assistant** (6 week internship)
Mission: Telemetry system conception; dimensioning of a crane

Summer 2000
Sales woman in a sports shop (student job)

Education

Since 2005
Facultés Universitaires Catholiques de Mons
Management degree (in progress)

2000-2004
Faculté Polytechnique de Mons
Electrical engineering master's degree – High Honours
Master Thesis (Multitel)**:** development of a multimodal interface combining automatic speech recognition and automatic handwriting recognition.

1999-2000
Queen's University, Kingston, Canada
First year engineering

1993-1999
Athénée Royal Marguerite Bervoets, Mons
High school diploma, courses in Math and Science.

Skills

Computing
Programming: Java, C, C++, HTML, Javascript, SQL, Matlab, Ladder Diagram
Operating Systems: Windows, Linux

Languages
French: mother tongue
English: second mother tongue
Dutch: average level
German: average level

Miscellaneous

Activities
2004-2006: Participation in the Belgian Robotics Cup.
2003: In charge of costume making for the show « La Revue des Mines », at the Royal Theater of Mons.
2000-2004: Active in several student circles.

Hobbies
Sports: swimming, aerobic, skiing, triathlon. – **Music:** djembe.
Traveling: Canada, USA, Australia, Europe. – **Other:** sewing, cooking.

Goranka Zorić, Curriculum Vitae

PERSONAL INFORMATION

Surname(s) / First name(s)	**Goranka Zorić**
Address(es)	Faculty of Electrical Engineering and Computing, Unska 3, HR-10000 Zagreb, Croatia
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Fax(es)	+385 1 6129 832
E-mail(s), Web address(s)	goranka.zoric@fer.hr, http://www.tel.fer.hr/gzoric
Nationality(-ies)	Croatian
Date of birth	16.10.1978.

WORK EXPERIENCE

• Dates (from – to)	2002.-
Name and address of employer	Faculty of Electrical Engineering and Computing, Unska 3, HR-10000 Zagreb, Croatia
Occupation or position held	Research Associate
Main activities and responsibilities	Research and teaching

EDUCATION

Date	2002. - 2005.
Place of education	Zagreb, Croatia
Name and type of organisation providing education	University of Zagreb, Faculty of Electrical Engineering and Computing, Department of Telecommunication
Title or qualification awarded	**MSc** in Electrical Engineering, specialisation: Telecommunication and Informatics, dissertation subject: Automatic lip synchronisation by speech signal analysis

Date	1997.- 2002.
Place of education	Zagreb, Croatia
Name and type of organisation providing education	University of Zagreb, Faculty of Electrical Engineering and Computing, Department of Telecommunication
Title or qualification awarded	**BSc** in Electrical Engineering, specialisation: Telecommunication and Informatics, dissertation subject: Agent migration in the IPv6 network

TRAINING

Year	2005.
Place of training	Barcelona, Spain
Name and type of organisation providing training	The department of Signal Theory and Communications (TSC) at the Technical University of Catalonia (Universitat Politècnica de Catalunya, Departament de Teoria del Senyal i Comunicacions)
Principal subjects/Occupational skills covered	Two months research fellowship provided by European project SIMILAR. Research in the field of lip synchronization by speech signal analysis in collaboration with the host institution researchers.

PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s)	Croatian

Other language(s)

Language	English	German
Speaking	excellent	good
Writing	excellent	good
Understanding (listening and reading)	excellent	good

ADDITIONAL INFORMATION	Membership: Institute of Electrical and Electronics Engineers (IEEE) Ph.D. student at the Faculty of Electrical Engineering and Computing, University of Zagreb
COMPUTER SKILLS	C/C++, Java, C#, C, HTML, Perl, Javascript Microsoft Visual Studio, Eclipse, MS Office, Matlab, Adobe Photoshop, Macromedia Dreamweaver, CorelDRAW
PROFESSIONAL INTERESTS	Main research interests in the field of facial animation and its application with Internet and mobile technologies and virtual environments with particular focus on automatic lip synchronization and gesturing of synthetic 3D avatars based only on the speech input
PREFERRED PROJECT TO WORK ON	1. An Agent Based Multicultural User Interface in a Customer Service Application
SKILLS TO OFFER TO THE PROJECT	Theoretical background in embodied conversational agents (ECAs) Programming skills
POSSIBILITY TO BRING A LAPTOP	Yes