

IRENE KOTSIA

Personal information:

- Sex: Female
- Date of birth: 4th January 1980
- Language skills: English
- E-mail: ekotsia@aia.csd.auth.gr

Education:

- Diploma in Informatics, Aristotle University of Thessaloniki, Greece 2002 (4- year course of study)
- PhD candidate since December 2002, dissertation subject: "Image and video digital processing", supervisor: professor Ioannis Pitas, Aristotle University of Thessaloniki (Aristotle University of Thessaloniki is a SIMILAR partner)

Research experience (field + short summary of work done):

January 2003- :

Participation in the PENED 2001 research project entitled "Virtual Reality tools for education on natural disasters", funded by the Greek Secretariat of Research and Technology. The main objective of this project is to investigate the way virtual reality tools can be used for education on natural disasters. An attempt to develop a system that will allow the trainees to develop their psychological skills that will enable them to face an emergency situation, is made. Facial expression recognition using information extracted from image sequences and audio, is attempted.

March 2004- :

Participation in the SIMILAR project, work on facial expression recognition.

Main Publications (in relation with the workshop themes):

Publications:

- I. Buciu, I. Kotsia, and I. Pitas, **"Recognition of facial expressions in presence of partial occlusion"**, in Proc. of *9th Panhellenic Conference on Informatics (PCI`03)*, Thessaloniki, Greece, 21- 23 November 2003.
- I. Buciu, I.Kotsia, and I. Pitas, **"Facial expression analysis under partial occlusion"**, in Proc. of *IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP 2005*, Philadelphia, 18- 23 March , 2005.

- I. Kotsia, and I. Pitas, **"Real time facial expression recognition from video sequences using Support Vector Machines"**, in Proc. of *Visual Communications and Image Processing (VCIP 2005)*, Beijing, China, 12-15 July, 2005.
- I. Kotsia, and I. Pitas, **"Real time facial expression recognition from image sequences using Support Vector Machines"**, in Proc. of *IEEE International Conference on Image Processing ICIP 2005*, Genova, Italy, 11-14 September, 2005.

Submitted work:

- I. Kotsia, I. Buciu and I. Pitas, **"Facial expression recognition under partial facial image occlusion"**, submitted to Elsevier Image and Vision Computing journal.
- I. Kotsia, and I. Pitas, **" Facial Expression Recognition in Image Sequences using Geometric Deformation Features and Support Vector Machines "**, submitted to IEEE Transactions on Image Processing journal.

Skills I can bring to the eINTERFACE projects:

1. Multimodal Caricatural Mirror (Coordinator: Prof. B. Macq, UCL Louvain La Neuve). Skills to bring into the project: previous experience in facial expression recognition from static images and video sequences as well as in the animation of human models using MAYA software.

2. Multimodal Focus Attention Detection in an Augmented Driver Simulator (Coordinators: Profs. Laurent Bonnaud & Alice Caplier, INPG_LIS, Grenoble; Prof. B. Macq, TELE Lab, UCL Louvain La Neuve). Skills to bring into the project: experience in facial expression analysis from static images and video sequences.

3. Multilingual Multimodal Biometric Identification/Verification (Coordinator: Prof. Yannis Stylianou, University of Crete) . Skills to bring into the project: previous experience in fusion of audio and video information for facial expression recognition.

Other activities and Hobbies:

Cinema, theatre, photography, music and a lot of Internet surfing!