Web: http://www.cmpe.boun.edu.tr/~aran/

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

Stage: Thesis

Research areas: Hand Gesture Recognition, Machine Learning, Computer Vision

• MS in Computer Engineering (September, 2000 - July, 2002)

Bogazici University

Supervisor: Prof. Dr. Ethem Alpaydin

Thesis: "Incremental Neural Network Construction Algorithms for Training Multilayer

Perceptrons"

• **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 Programming (Spring 2003 – present)
Digital Design (Spring 2001, Spring 2002)
Introduction to Computing, Pascal Programming (Fall 2002)

Object Oriented Programming (Fall 2001)

Software Engineering (Fall 2000, Fall 2001)

Industrial Experience

• **ALARKO A.S.** (January 2000 – October 2000)

Worked as application supervisor for constitution of CRM, OLAP applications.

• **ELIAR A.S.** (March 1997 – October 1997)

Worked as a programmer in the project of "Automation systems for fabric dyeing"

Publications

- Aran, O., Alpaydin, E., "An Incremental Neural Network Construction Algorithm for Training Multilayer Perceptrons", ICANN'03, Istarbul, June 2003.
- Incremental Neural Network Construction Algorithms for Training Multilayer Perceptrons, MS Thesis

Conference /Summer School Talks

- ICANN, Istanbul, Turkey (June, 2003)
- MLSS'04, Berder Island, France (September, 2004)

Languages

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

Preferred Projects

- 1. **Combined Gesture-Speech Analysis and Synthesis** (Coordinators: Profs. Murat Tekalp, Engin Erzin, Yucel Yemez, Mehmet Emre Sargin, Koc University Multimedia, Vision and Graphics Lab, Istanbul).
- 2. Speech Conductor (Coordinator: Prof. C. D'Alessandro, LIMSFCNRS, Paris)
- 3. A Multimodal (Gesture+Speech) Interface for 3D Model Search and Retrieval Integrated in a Virtual Assembly Application (Coordinator: Prof. Dimitrios Tzovaras ITI-CERTH, Thessaloniki).

List of skills to offer for these projects

My current research, in connection with the SIMILAR project, is on developing applications for controlling windows programs through a gesture interface. My PhD thesis topic is also on a related area, which is the vision based recognition of dynamic hand gestures. I took courses on Speech Processing, Pattern Recognition, Machine Learning, 3D Computer Vision which provide the necessary background for the projects in the eNTERFACE workshop. In these courses, I worked on some projects which are related to the projects in the workshop such as analysis and synthesis of musical voice, motion recognition. I mainly use C/C++, Matlab for programming but can adapt to any programming language in a short time. I believe that I can contribute much to these projects as well as the workshop's contribution to me.

Possibility to bring a laptop? with wireless connection?

I will be able to bring a laptop with wireless connection

Oya Aran

PhD Student
Bogazici University
Computer Engineering Department