

Pınar Santemiz

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Education

- **Boğaziçi University** Istanbul, TURKEY
M.S., Computer Engineering 2006-2009
- **Boğaziçi University** Istanbul, TURKEY
B.S., Mathematics 2000-2006
- **St. George Austrian College** Istanbul, TURKEY
High School 1992-2000

Current Research Interests

- Feature Extraction
- Hand Gesture Recognition
- Sign Language Recognition
- Dynamic Time Warping (DTW), Hidden Markov Models (HMM), Coupled HMM, Parallel HMM

Scientific Interests

- Human Computer Interaction
- Machine Learning and Pattern Recognition
- Computer Vision
- Image Processing
- Speech Processing

Current Project

The Scientific and Technical Research Council of Turkey (TUBITAK) Research Project, Project Title: Sign Language Tutor, Project Code: 107E021.

Publications

International Conference and Workshop Publications

- Pinar Santemiz, Oya Aran, Murat Saraclar, Lale Akarun, “Automatic Sign Segmentation from Continuous Signing via Multiple Sequence Alignment,” in Proceedings of the IEEE International ICCV Workshop on Human-Computer Interaction (HCI’09), Kyoto, Japan, 2009, (accepted).
- Pinar Santemiz, Oya Aran, Murat Saraclar, Lale Akarun, “Extraction of Isolated Signs from Sign Language Videos via Multiple Sequence Alignment,” in Proceedings of the 13th International Conference on Speech and Computer (SPECOM’09), pp. 117–122, St.Petersburg, Russia, 2009.
- Pavel Campr, Marek Hruz, Alexey Karpov, Pinar Santemiz, Milos Zelezny, and Oya Aran, “Input and output modalities used in a sign-language-enabled information kiosk,” in Proceedings of the 13th International Conference on Speech and Computer (SPECOM’09), pp.113–116, St.Petersburg, Russia, 2009.
- Pavel Campr, Marek Hruz, Alexey Karpov, Pinar Santemiz, Milos Zelezny, and Oya Aran, “Sign-language-enabled information kiosk,” in Proceedings of the 4th International Summer Workshop on Multimodal Interfaces (eNTERFACE’08), pp.24–33, Paris, France, 2008.
- P. Santemiz, N. Alyuz, D. Cavdar, F. Alagoz, “Post-earthquake Damage Assessment Using Satellite Imagery,” IEEE International Conference on Signal Processing and Communication (ISCPC’07), pp.596–599, Dubai, United Arab Emirates (UAE), 2007.

National Conference Publications

- P. Santemiz, O. Aran, M. Saraçlar, L. Akarun, “Alignment Based Extraction of Isolated Signs from Sign Language Videos”, IEEE 17th Signal Processing and Communications Applications Conference (SIU’09), Antalya, Turkey, 2009.
- P. Santemiz, N. Alyuz, D. Cavdar, F. Alagoz, “Uydu Goruntulerinden Deprem Sonrasi Hasar Tespiti”, 12. EEBB Muhendisligi Ulusal Kongresi, Eskisehir, Turkey, 2007.
- H. Dibeklioglu, E. Dikici, P. Santemiz, K. Balci, L. Akarun, “Sign Language Motion Tracking and Generating 3D Motion Pieces Using 2D Features”, IEEE 15th Signal Processing and Communications Applications Conference (SIU’07), pp.1–4, Eskisehir, Turkey, 2007.

Thesis

- P. Santemiz, “Alignment and Multimodal Analysis in Signed Speech”, M.S. Thesis, Bogazici University, Istanbul, Turkey, 2009.
- P. Santemiz, “Categories, Functors and Natural Transformations”, B.S. Thesis, Bogazici University, Istanbul, Turkey, 2005.

Academic Experience

- **Research Assistant** since 2008
Dept. of Computer Engineering, Perceptual Intelligence Laboratory. Boğaziçi University
- **Research Assistant** 2006-2007
Dept. of Computer Engineering, Satellite Networks Research Laboratory. Boğaziçi University

- **Teaching Assistant**
Mathematics Department, Calculus II Course.

2005-2006
Boğaziçi University

Events Participated

eNTERFACE'08 4th International Summer Workshop on Multimodal Interfaces, Paris, France, 2008.

Personal Skills and Competences

Native language Turkish

Other language(s) English (fluent), German (fluent), Italian (beginner).

Driving license(s) Turkish drivers license, Category B vehicle.

Computer skills Programming Languages (C/C++, Matlab), Operating Systems (Windows),
Authoring/word processing (Microsoft Office, L^AT_EX).

Projects

The Scientific and Technical Research Council of Turkey (TUBITAK) Research Project, Project Title:
Sign Language Tutor, Project Code: 107E021.

Noncurricular Activities

Sports: Scuba Diving (CMAS two star diver), Volleyball, Swimming.

Film Editing

Awards

Film editor of the film “Uyku (Sleep)”

- “Best Short Film”, 25th IFSAK Short Film Festival, 2005
- “Best Short Film”, !F Istanbul, 2005

Additional Information

Date of birth 03.03.1981

Gender Female

Nationality Turkey