| | Department of Electrical Engineering Bilkent University TR-06800 Bilkent, Ankara, Turkey | Phone: +90 (312) 290 1286 URL: www.ee.bilkent.edu.tr/~cagri E-mail: cagri@ee.bilkent.edu.tr | |
|-----------------------|--|---|--|
| Research Interests | Intelligent sensing, optical sensing, pattern reco sensor-based robotics | gnition, sensor data fusion, target differentiation, | |
| Education | Ph.D. Student in Electrical Engineering , September 2004 – onwards; Bilkent University, Ankara, Turkey <i>Dissertation:</i> "TBD" <i>Advisor:</i> Prof. Billur Barshan | | |
| | M.S., Electrical Engineering, September 2004 Bilkent University, Ankara, Turkey <i>Thesis:</i> "Improved range estimation using simple infrared sensors without prior knowledge of surface characteristics" <i>Advisor:</i> Prof. Billur Barshan | | |
| | B.S., Electrical Engineering , June 2002 Middle East Technical University, Ankara, Turkey <i>Senior Project:</i> "The design of a device to follow and "capture" a target" | | |
| | High School, May 1997 Ankara Fen Lisesi ("Ankara Science High School"), Ankara, Turkey | | |
| | High School , May 1994 Muğla Anatolian High School, Muğla, Turkey | | |
| Employment | Research AssistantBilkent Universityworking on infrared sensing, multi-sensor data | Robotics and Sensing Research Laboratory September 2002 – onwards fusion, robot base construction | |
| | Teaching Assistant Bilkent University Assisted Courses: EEE 211 Analog Electronics, Circuit Theory | Department of Electrical Engineering September 2002 – onwards MATH 250 Introduction to Probability, EEE 202 | |
| | • worked as a coordinator assistant, prepared laboratory works, homeworks, and quizzes, assisted in lab. sessions and office hours, gave recitations, and graded homeworks, quizzes, term projects, and laboratory reports | | |
| | Summer TrainingAnkaraon design of logic gates and synchronous count | VLSI-MEMS Laboratory (METU) June 2001 er using Cadence and Verilog-HDL | |
| | Student AssistantAnkaraassisted in the Electronics Circuits Laboratory, | METU May 2001 EE 214. | |
| | Summer Training Ankara • on telecommunication. | Türk Telekom A.Ş August 2000 | |
| | • on telecommunication. | | |

| Graduate Coursework | Pattern Recognition, Computer Vision, Neural Network, Digital Image Processing, Digital Coding of Waveforms, Linear System Theory, Telecommunications Electronics, Robotics and Sensing, Digital Signal Processing, Random Processes, Optics, Speech Processing, Antenna Engineering, Convex Analysis | |
|--|--|--|
| Course Related projects | • Survey and presentation on multi-sensor fusion | |
| | • Motion detection in the news videos | |
| | • Four mini neural network projects for pattern recognition | |
| | • ECG data compression | |
| | \bullet Design and implementation of a voltage controlled oscillator | |
| | • Tutorial and presentation on "SPIHT Coding" | |
| | • Implementation of the LPC-10 Coding | |
| | • Presentation of the paper " The Earth Mover's Distance as a Metric for Image Retrieval" | |
| | \bullet Design of an 8-bit FIFO (first-in first-out) register using Xlinx | |
| | \bullet Design and implementation of 20W power amplifier | |
| Honors and Awards | • Full scholarship awarded by Bilkent University for M.S. and Ph.D. Studies (Tuition waiver + monthly stipend), September 2002 – onwards. | |
| | • Second best project award in the senior projects contest in Middle East Technical University, June 2002. | |
| | \bullet Ranked 55th in 1997 nation-wide central University Election Examination (OSS) | |
| | • Second best score at the graduation from Ankara Science High School, June 1997. | |
| | • Ranked 28th in the 1994 nation-wide central Science High School Entrance Examination, June 1994. | |
| | \bullet Best score at the graduation from Muğla Anatolian High School, June 1994. | |
| | • Ranked 3rd in the Men 3000M Run Final Round, May 1994. | |
| Professional Affiliations and Activities | ReviewerReviewer for the IEEE/RSJ International Conference on Intelligent Robots and Systems, August 2005. | |
| Other Experiences | LanguagesTurkish (native) | |

• Fluent English KPDS (State Language Exam): 90 (2004, November)

Computer Skills

Pascal, C, C++, Matlab, Xlinx, P
spice, Assembly, PIC Programming, P/SPICE, and ${\rm IAT}_{\rm E}{\rm X};$ UNIX and MS Windows Applications

PUBLICATIONS [1] R. Çağrı Yüzbasıoğlu and B. Barshan, "Improved range estimation using simple infrared sensors without prior knowledge of surface characteristics," accepted for publication in **Measurement Science and Technology**, April 2005.

[2] R. Çağrı Yüzbasıoğlu and B. Barshan, "Improved range estimation using simple infrared sensors without prior knowledge of surface characteristics," submitted to the IEEE/RSJ International Conference on Intelligent Robots and Systems, January 2005.

[3] R. Çağrı Yüzbasıoğlu and B. Barshan, "Kızılberisi algılayıcılardan elde edilen sinyallerle yüzey özelliklerinden bağımsız konum kestirimi," ("Range estimation using simple infrared sensors without prior knowledge of surface parameters") Proceedings of the 12th IEEE Conference on Signal Processing, Communications and Applications, in Turkish, pp. 253-256, April 2004, Kuşadası, Aydın, Turkey.

- PERSONAL
 INFORMATION
 Citizenship: Citizen of the Republic of Turkey
 Date/Place of birth: December 12, 1979/Muğla, Turkey
 Marital status: Single
- REFERENCES Prof. Billur Barshan Department of Electrical Engineering Bilkent University, Bilkent Ankara TR-06800 Turkey

• Prof. Hayrettin Köymen Department of Electrical Engineering Bilkent University, Bilkent Ankara TR-06800 Turkey

• Asst. Prof. Arzu Koç Department of Electrical Engineering METU, Ankara TR-06531 Turkey