

Serdar Kemal Balci

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Education

2001-present Bogazici University Istanbul, Turkey
B.S. in Electrical and Electronics Engineering
GPA 4.00/4.00

2004, Fall University of Illinois at UC Urbana, IL
Electrical and Computer Engineering as a Junior Exchange Student
GPA 4.00/4.00

Research Interests

2005 - present Bogazici University (BUSIM/VAV Lab) Istanbul, Turkey
Signal / Image processing, detection, identification and classification with an emphasis on biomedical applications. In particular
Morphology/Shape representations in minimal spaces, e.g. CT/MRI 2D/3D data processing/analysis
Registration, motion estimation, tracking, segmentation
PDE based methods:
Level Set Methods

Projects Involved

2004, Fall University of Illinois at UC Urbana, IL
Worked in Brian Cunningham's research group to get familiar with high sensitivity plastic biosensors based on detection of changes in optical density on the surface of a narrow bandwidth guided mode resonant filter. Implemented a replicator which is designed to be used in the laboratory for sub-micron microreplication of a master sensor surface structure on sheets of plastic film.

2002-2004 Bogazici University (ISL) Istanbul, Turkey
Robotics, Motion Control of a Vision Guided Robot at Intelligent System Laboratories (ISL) of Bogazici University. Designed a pcb card to incorporate the cable connections of motor drivers, ADC card and encoders of a robot into a single layout.

Internship

Summer 2004 Arcelik Consumer Electronics Istanbul, Turkey
Design and Control of an Electronic Control Card of an Oven with a dot matrix display

Computer Skills

C/C++/Java Object oriented programming, Matlab, Opengl, MFC

Honors

August 2001
Ranked as 2nd in the university entrance examination in Turkey (OSS) out of 1,500,000 examinees.