

Onur VAROL

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Department of Electrical and Computer Engineering Koç University
Rumelifeneri Yolu, Sariyer, 34450, Istanbul, Turkey.

OBJECTIVE To pursue an academic career as a PhD student in the fields of Complex Systems, Network Theory, Statistical Physics and Machine Learning.

PUBLICATIONS

- Yasemin Alban; Tuba Ayhan; Onur Varol; Müştak Erhan Yalçın “**A Feature Filtering Method for EEG Data Classification**”, Signal Processing and Communications Applications (SIU), IEEE 19th Conference, Antalya, April 20-22 2011.

HONORS AND AWARDS

Scholarship from TUBITAK(2010-current)
Graduate scholarship from Koç University (2010-2012)
Electrical Engineering Society (EMO) Project Competition 1st Rank (2010)
Bosch Scholarship (2009)
Istanbul Technical University Student Council Vice President (2009)
Microsoft Student Partner (2008-2010)
Euroskills 2010, Portugal, Mobile Robotic Expert
Worldskills 2009, Canada, Mobile Robotic Competitor
Euroskills 2008, Netherland, 3rd rank in Mobile Robotic

RESEARCH INTERESTS

Complex Systems, Network Theory, Opinion Dynamics, Statistical Physics
Machine Learning, Pattern Recognition, Computer Vision

EDUCATION

Koç University, Istanbul, TURKEY.

M.Sc., Electrical and Computer Engineering (expected graduation date: June 2012)
(current GPA: 3.50/4.00)

Advisors: Assist. Prof. Deniz Yüret

Assist. Prof. Alkan Kabakçioğlu

Istanbul Technical University, Istanbul, TURKEY

B.Sc., Electronics Engineering, June 2010 (GPA 3.33/4.00)

B.Sc., Physics Engineering, (expected graduation date: June 2012) (current GPA 3.04/4.00)

CONDUCTED RESEARCHES AND ACADEMIC EXPERIENCE

Research

Research on Protein dynamics and mode-coupling analysis

Research on Transcriptional regulatory networks.

Research on Sketch Recognition using Dynamic Programming.

Research on Modelling of Social Networks and Phase Transitions of Complex Systems

Advisor: Prof. Ayse Erzan

Research on EEG Signal Processing and Classification.

Advisor: Assoc. Prof. Müştak Erhan Yalçın

Projects

Koç University, Istanbul, Turkey

- Community networks and opinion dynamic models (2012)
- Designed and implemented a sketch based map builder in 3D graphics (2011)
- Designed and programmed a Tourist Guidance Multi Model Interface Application(2011)
- Implemented unsupervised part-of-speech tagger, regression-based statistical machine translation decoder, spam filter using language models in Machine Learning Course (2011)

Istanbul Technical University, Istanbul, Turkey

- EEG Signal Processing and Classification for Mobile Robot Navigation (2010)
- Scanning Tunnel Microscope control electronic design and software implementation (2010)
- Human machine interface for mouse control using hand gestures (2009)
- EKG device electronic and software implementation (2009)

Teaching Assistant

Koç University, Istanbul, TURKEY.

Machine Learning (Spring 2012)

Microprocessors (Fall 2011)

Probability and Random Variables (Spring 2011)

Discrete Mathematics (Fall 2010)

WORK EXPERIENCE

Stonefish Software Consultant, Istanbul, Turkey

Software Developer (August 2009 - March 2010) worked on an enterprise web application development (using C#, ASP.NET, MSSQL)

Istanbul Technical University Computer Center, Istanbul, Turkey

Asistant Student (April 2008 - August 2009)

ASELSAN, Ankara, Turkey

Network programming and implementation of observation station simulation of unmanned vehicle. Intern (June 2009 - August 2009)

Istanbul Technical University Computer Center, Istanbul, Turkey

Temperature monitoring device desing for server room and web service for temperature data monitoring. Intern (June 2008 - August 2009)

Control Avionic Laboratory, Istanbul Technical University, Istanbul, Turkey

Image processing for distortion problem of robotic testbed. Intern (June 2007 - August 2007)

WORKSHOPS AND
SUMMER SCHOOLS

- Computational Methods for Life Sciences and Nanotechnology, Koç University (January 2012)
- Phase Transition and Renormalization Groups, Feza Gürsey Institute (August 2010)
- International Summer School and Research Workshop on Complexity, Feza Gürsey Institute - Imperial College (September 2011)

TEST SCORES

GRE: A:168, V:138
TOEFL IBT: 84

COMPUTER AND
LANGUAGE SKILLS

Programming Languages and Skills:

Java, C / C++, C#, MATLAB, Python, L^AT_EX
OpenCV, OpenGL
ASP.NET, MSSQL, HTML, CSS
Cisco Routing

Languages:

Turkish (native), English (fluent), German (beginner)

INTERESTS

Basketball, swimming, puzzle, tracking