

CONTACT INFORMATION	217 Philips Hall	voice: +1 607 379 47 39
	Department of Electrical and Computer Engineering Cornell University Ithaca, NY 14853	e-mail: os79@cornell.edu
EDUCATION	Cornell University , Ithaca, NY	September 2013 – present
	Ph.D. in Electrical and Computer Engineering	
	Middle East Technical University , Ankara, Turkey	February 2011 – June 2013
	MS in Electrical and Electronics Engineering Thesis Supervisor: Prof. Aydın Alatan Thesis: An Efficient Graph-Theoretical Approach for Interactive Mobile Image & Video Segmentation	GPA:3.93/4.00
PROFESSIONAL EXPERIENCE	Middle East Technical University , Ankara, Turkey	September 2005 – June 2010
	BS in Electrical and Electronics Engineering	GPA:3.88/4.00
	Class Rank: 5 th out of 275 graduates	
	Multimedia Research Group , METU, Ankara, Turkey	February 2011 – August 2013
	Research Assistant	
	<i>Worked in collaboration with Nokia Research Center, Tampere.</i> Advised by Prof. Aydın Alatan (METU) and Dr. Kemal Ugur (Nokia Research Center, Tampere).	
JOURNAL PUBLICATIONS	Developed an efficient interactive video segmentation algorithm via Markov random field energy propagation. Proposed a dynamic method to reuse residual-flows in filtering scenario for time efficiency.	
	Developed a method efficiently solving interactive image segmentation problem via dynamic and iterative graph-cuts. Furthermore, improved the robustness of the method via automatic correction of user interaction errors.	
	Siemens Corporate Research , Princeton, NJ	August 2010 – February 2011
	Research Intern in Imaging, Analytics and Informatics Department Advised by Dr. Bogdan Georgescu and Dr. Yang Wang	
	Contributed to the development of the LVA(Left Ventricle Anatomy) software. Developed a learning based method for automatic classification of volume contrast echocardiography data.	
	Signal Processing Laboratory 4 , EPFL, Switzerland	July 2009 – September 2009
CONFERENCE PUBLICATIONS	Research Intern	
	Advised by Prof. Pascal Frossard	
	Worked on the similarity analysis of observations under affine projections. Developed a distance metric to be used in multi-view classification problems. Implemented and tested proposed distance metric in graph based multi-view object classification algorithm.	
	Vestel Electronics R&D Corporation , Ankara, Turkey	July 2008 – September 2008
JOURNAL PUBLICATIONS	Summer Intern	
	Worked on the frame rate conversion project. Implemented a computationally efficient true motion estimation system by combining block-based and optical-flow based techniques.	
JOURNAL PUBLICATIONS	O. Sener, K. Ugur, and A. A. Alatan. Efficient MRF Energy Propagation for Video Segmentation via Bilateral Filters. <i>Submitted to Transactions on Multimedia</i>	
	O. Sener, K. Ugur, and A. A. Alatan. Error-tolerant interactive image segmentation using dynamic and iterated graph-cuts. In <i>Proceedings of the 2nd ACM international workshop on Interactive multimedia on mobile and portable devices</i> , IMMPD '12, pages 9–16, New York, NY, USA, 2012. ACM.	

Y. Aksoy, O. Sener, A. A. Alatan and K. Ugur. Interactive 2d-3d image conversion for mobile devices. In *IEEE International Conference on Image Processing*, 2012.

O. Sener, K. Ugur, and A. A. Alatan. Robust interactive segmentation via coloring. In *Proceedings of the 1st International Workshop on Visual Interfaces for Ground Truth Collection in Computer Vision Applications*, ACM AVI 2012 Workshop.

PATENTS K. Ugur, O. Sener, E. Gundogdu, and A. Alatan. Interactive Image/Video Segmentation For Mobile 2D/3D Conversion. International Patent Pending, (PCT/FI2012/050313)

HONOURS AND AWARDS Jacobs Scholar Fellowship 2013
 IEEE-eXtreme Programming Competition 5.0 2012
 (1st place Nationwide, 17th place in Region 8, 47th place Worldwide)
 METU Electrical and Electronics Engineering Best Graduation Project Award 2010
 XPLORE New Automation Award (Top 17 projects worldwide in the category of recreation) 2009
 IEEE Foundation Grant Recipient (with Pre-College Website Contest project, US\$9000) 2009
 Dr Bulent Kerim Altay Award (given by the METU EE Department to the student who ranks first in his/her class) 2006-2007
 IEEE Region 8 Web Site Contest Runner-Up Award 2006
 National Olympiad in Informatics (Regional degree - 1st place) 2004

TEACHING EXPERIENCE **Middle East Technical University**, Ankara, Turkey January 2012 – June 2013
 Department of Electrical and Electronics Engineering
 Teaching Assistant for;
 Digital Signal Processing (EE 430) Fall 2011, Fall 2012
 Computer Architecture (EE 446) Spring 2011, Spring 2012
 Operating Systems (EE 442) Spring 2011, Spring 2012
 Data Structures (EE 441) Fall 2012

RELATED COURSEWORK **Probability and Stochastic Processes:** Applied Stochastic Processes ^c, Signal Analysis and Processing ^m, Adaptive Signal Processing ^m, Information Theory ^m
Analysis and Algebra: Honours Introduction to Analysis I ^c, Matrix Computations ^c, Linear System Theory ^m, Functional Analysis and Operator Theory with App. ^m
Multimedia and Robotics: Pattern Recognition ^m, Fundamentals of Image Processing ^m Artificial Intelligence ^m, Statistical Techniques in Mobile Robotics ^m
 Offered by ^mMiddle East Technical University and ^cCornell University

PROFESSIONAL ACTIVITIES **Reviewer Service:** Reviewer for IEEE Signal Processing Letters
Memberships: Student member of SIAM(since 2012), IEEE (since 2006) and ACM (since 2008)
Leadership: Chairperson of IEEE Computer Society METU Student Branch (2007-2008), SUN Open Source University Meetup(OSUM) METU Club Leader (2007-2008)

SKILLS Matlab, C/C++ (proficient libraries: Qt, OpenCV and Boost), Android (mobile multimedia research), Python (scripting and data crawling via web APIs), L^AT_EX, Git, GNU/Linux (personal usage and system administration on Debian based distros).

INTERESTS **Juggling** (performed at METU Juggling Convention 2011&2012, attended European Juggling Convention 2011&2012), **Math Puzzles & Games** (game designer for EU Youth Action Project - Puzzle Puzzle 2007, finalist for World Puzzle Federation - Turkey Competition), **Kendo** (5th kyu).

CITIZENSHIP Turkish LANGUAGE English and Turkish DATE OF BIRTH September 07, 1988