Can Fahrettin Koyuncu

Contact Information	Bilkent University, Computer Engineering Department, EA425 Bilkent, Ankara, 06800, Turkey +90 312-290-2092 koyuncu@cs.bilkent.edu.tr
Research Interests	Medical image analysis, image processing, pattern recognition, machine learning
Education	Bilkent University, Ankara, Turkey
	Ph.D., Computer Engineering Department, Sep. 2012 to present
	 Topic: Automated cell analysis in microscopic images Area of Study: Medical image analysis, image processing, microscopy imaging Advisor: Cigdem Gunduz Demir, Ph.D.
	M.S., Computer Engineering Department, Sep. 2010 to Aug. 2012
	 Topic: Smart markers for watershed-based cell segmentation Area of Study: Medical image analysis, image processing, microscopy imaging Advisor: Cigdem Gunduz Demir, Ph.D.
	• Participated as a researcher in a project called "Intelligent system design for automated classification and indexing of cell deaths in cancerous cell cultures and image based anticancer drug screening method development" funded by The Scientific and Technological Research Council of Turkey
	TOBB University of Economics and Technology, Ankara, Turkey
	B.S., Computer Engineering Department, Sep. 2005 to Aug. 2010
	 Senior Project: An automated image tagger for documents on the web Area of Study: Computer vision, artificial intelligence Advisor: Tansel Ozyer, Ph.D.
PUBLICATIONS	 C.F. Koyuncu, E. Akhan, T. Ersahin, R. Cetin-Atalay, and C. Gunduz-Demir, "Iterative h-minima based marker-controlled watershed for cell nucleus segmentation," Cytometry: Part A, in press. T. Gultekin, C. F. Koyuncu, C. Sokmensuer, and C. Gunduz-Demir, "Two-tier tissue decomposition for histopathological image representation and classification," IEEE Transactions on Medical Imaging, 34(1):275-283, 2015. S. Krappe, C. Mnzenmayer, A. Evert, C.F. Koyuncu, E. Cetin, T. Haferlach, T. Wittenberg, C. Held, "Dynamic programming for the segmentation of bone marrow cells," Bildverarbeitung fr die Medizin, 359-364, 2015. C.F. Koyuncu, I. Durmaz, R. Cetin-Atalay, and C. Gunduz-Demir, "A supervised learning model for live cell segmentation," IEEE 22nd Signal Processing, Communication, and Applications Conference, Trabzon, Turkey, Apr 2014. C.F. Koyuncu, S. Arslan, I. Durmaz, R. Cetin-Atalay, and C. Gunduz-Demir, "Smart markers for watershed-based cell segmentation," PLoS ONE, 7(11):e48664, 2012. C.F. Koyuncu, E. Akhan, T. Ersahin, R. Cetin-Atalay, and C. Gunduz-Demir, "Iterative H-minima Based Marker-Controlled Watershed for Cell Nucleus Segmentation: Supplementary Material," BU-CE-1501, 2015 (technical report).

Awards	• Graduate scholarship for PhD students, The Scientific and Technological Research
TWAILDS	Council of Turkey
	• Graduate scholarship for MSc students, The Scientific and Technological Research Council of Turkey
	 College graduate of high honor, TOBB University of Economics and Technology High honor scholarship by TOBB University of Economics and Technology upon success in University Entrance Exams (1461st rank among nearly 1,500,000 high school graduates)
	• Full scholarship by Sema College upon success in High School Entrance Exam (1512nd rank among nearly 900,000 students)
Research Experience	Visiting ScientistAug. 2014 to Oct. 2014Fraunhofer IIS, Erlangen Area, Germany Advisor: Thomas Wittenberg, PD Dr.
	Development of novel algorithms for superpixel based approach for bone marrow segmentation.
	Research AssistantSep. 2010 to presentComputer Engineering Department, Bilkent University
	Advisor: Cigdem Gunduz Demir, Ph.D. Development of novel algorithms for medical image analysis with the help of image processing and machine learning techniques.
TEACHING	Teaching Assistant Sep. 2010 to present
Experience	Computer Engineering Department, Bilkent University Responsibilities include preparing assignments and quizzes, meeting with students during weekly office hours, and grading homework and programming assignments.
	 Artificial Intelligence Fundamental Structures of Computer Science I - II Algorithms and Programming I - II
Professional Experience	• Software Department in Havelsan, Ankara, Turkey 4 months, intern, (2009 - 2010)
LAF ERIENCE	• Information Technology Department, TOBB University, Ankara, Turkey
	 4 months, intern, (2008 - 2009) Software Department, Datasel Bilgi Sistemleri A.S., Ankara, Turkey 4 months, intern, (2007 - 2008)
References	Cigdem Gunduz Demir, Associate Professor Computer Engineering Department Bilkent University, Ankara, 06800, Turkey Phone: [+90] 312-290-3443 gunduz@cs.bilkent.edu.tr
	Rengul Cetin Atalay, Associate Professor Bioinformatics Department, Graduate School of Informatics Middle East Technical University, Ankara, 06800, Turkey Phone: [+90] 312-210-7887 rengul@metu.edu.tr