Contact Information	GSM: +90 (536) 550 89 60 E-mail: gulcan@ceng.metu.edu.tr Website: http://www.ceng.metu.edu.tr/ gulcan/		
Personal Information	Place and Date of Birth: Ankara(Turkey), December 1, 1988 Nationality: Turkish		
Education	<ul> <li>M.S., Computer Engineering, Middle East Technical University, Ankara, Turkey</li> <li>October 2010 - Expected: June 2013.</li> <li>Thesis topic: Conditional and Hierarchical Modelling of Remote Sensing Objects with Irregular Conditional Random Fields</li> <li>Advisor: Prof. Dr. Fatoş T. Yarman Vural</li> <li>Field: Computer Vision &amp; Pattern Recognition</li> <li>Cumulative GPA: 3.57 over 4.00</li> <li>B.S., Computer Engineering, Bilkent University, Ankara, Turkey</li> <li>September 2006 - June 2010.</li> <li>B.S. Project: Question answering system</li> <li>Course Project: Object recognition using SIFT keypoints and "bag-of-words" model</li> <li>Cumulative GPA: 3.21 over 4.00</li> <li>High School, Ankara Science High School, September 2002 - June 2006.</li> </ul>		
Experience	Department of Computer Engineering, METU, Ankara, Turkey		
	Research Assistant	August 2010 - current	
	<i>Project:</i> Processing of Remote Sensing Imagery (Land Use/Land Cover Classification and Analysis)		
	• Performing active research in a computer vision/pattern recognition project which is run in close collaboration with several development teams in METU. The main work consists of developing state-of-the-art algorithms to be used in clas- sification/detection of various types of regions/objects in satellite images. For that purpose, lots of hands-on experience is gained regarding various approaches in feature selection (texture features based on filter responses or gray-level co- occurrence matrix, histogram-based features such as HOG and LBP, keypoint features such as SIFT), clustering (k-means, mean-shift), segmentation (water- shed, region-merging, mean-shift, graph-based), and classifier selection (SVM and kernel selection, decision tree, k-NN, Markov and conditional random fields).		
	Department of Computer Engineering, METU, Ankara, Turkey		
	Teaching Assistant	September 2011 - current	
	• Managing homeworks and labs for department courses such as data structures, introduction to programming, C programming, and providing consultation to senior design project groups.		
Current and Further Research	Actively working on probabilistic graphical models and their application on visual anal- ysis of satellite images, developed under supervision of Fatoş T. Yarman Vural. Have obtained a statement of accomplishment from the online course "Probabilistic Graphical Models" taught by Prof. Dr. Daphne Koller on Coursera.		

	For further study, unsupervised or semi-supervised graphical model approaches would be interesting and challenging. It may also be interesting to work on deep learning for unsupervised feature selection which is a hot-topic recently.	
PUBLICATIONS	<ul> <li>Gülcan Can, Orhan Firat, Fatoş T. Yarman Vural, Contextual Object Recognition with Conditional Random Fields, 21th Signal Processing and Communications Applications Conference, 2013. (oral)</li> <li>Gülcan Can, Orhan Firat, Fatoş T. Yarman Vural, Conditional Random Fields for Land Use/Land Cover Classification and Complex Region Detection, 14th IAPR International Workshop on Structural and Syntactic Pattern Recognition (SSPR, jointly organized by ICPR), 2012. (oral)</li> <li>Ümit Ruşen Aktaş, Gülcan Can, Fatoş T. Yarman Vural, Edge Aware Segmentation in Satellite Imagery: A Case Study of Shoreline Detection, 7th IAPR Workshop on Pattern Recognition in Remote Sensing (PRRS, , jointly organized by ICPR), 2012. (oral)</li> <li>Ümit Ruşen Aktaş, Gülcan Can, Fatoş T. Yarman Vural, A Robust Approach for Shoreline Detection in Satellite Imagery, 20th Signal Processing and Communications Applications Conference, April 2012. (oral)</li> <li>Ulya Bayram, Gülcan Can, Sebnem Düzgün, Neşe Yalabik, Evaluation of Textural Features for Multispectral Images, SPIE Remote Sensing Conference, 2011. (oral)</li> <li>Ulya Bayram, Gülcan Can, Bariş Yüksel, Şebnem Düzgün, Neşe Yalabik, Unsupervised land use - land cover classification for multispectral images, 19th Signal Processing and Communications Applications Application</li></ul>	
Awards and Honors	<ul> <li>Best paper award at 3rd Computer Science Student Workshop (2012).</li> <li>Full-time scholarship by Bilkent University based on the ranking of ÖSS 2006 (Student Selection Exam), among 2 million candidates.</li> <li>Encouragement award in biology at 14th MEF Projects Competition in high school (2005)</li> </ul>	
Technical Background	<ul> <li>Programming: C++, C, Java, MATLAB, Python, HTML, Assembly Technologies &amp; Applications:</li> <li>Google App Engine: Coding backends for an enterprise Java project.</li> <li>LAT<sub>E</sub>X, Microsoft Office, Open Office, and similar packages.</li> <li>Operating Systems: Microsoft Windows 7/XP, various Linux distributions.</li> <li>Databases: MySQL.</li> <li>Other: UML, XML etc.</li> </ul>	
Interests	Reading fantastic novels Squash, swimming and Tango	
LANGUAGES	Turkish (Native) English (Fluent, Toefl Score: 99) German (Beginner) Japanese (Beginner)	
Key Skills	Motivated self-learner, analytic problem solver Deep understanding of computer vision and pattern recognition algorithms, with long- term implementation experience in MATLAB Extensive development experience in object oriented languages (C++, Java) and C	