055:191

ELECTRICAL & COMPUTER ENGINEERING GRADUATE SEMINAR

Thursday April 17, 2008  3:30-4:20 PM  3315 SC

SPEAKER:  DR. YURI BOYKOV

“Graph cuts for global optimization of energy functionals in
Computer Vision”

Abstract:

A wide variety of tasks in computer vision and image analysis involve assigning a label (from a
discrete set of labels) to each element in a given set of objects. Such labeling problems can be
very elegantly expressed in the language of Discrete Markov Random Fields (MRFs). MRF
optimization is considered to be a task of fundamental importance, which has attracted a
significant amount of research over the last years. In this talk we will overview optimization
methods based on graph cuts that compute either global minima or solutions with known optimality guarantees.

BIO:

Dr. Yuri Boykov is Assistant Professor of Computer Science at the University of Western
Ontario. His research is concentrated in the area of computer vision and biomedical imaging,
and is interested in problems of early vision, image segmentation, restoration, registration,
stereo, motion, feature-based object recognition, photo-video editing and others. He received
his “Diploma of Higher Education” with honors at Moscow Institute of Physics, and Technology
(department of Radio Engineering and Cybernetics) in 1992 and completed his PhD at the

All ECE graduate students are required to attend.

For more information contact:

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