

Presents the Fall 2012 EECS Seminar Series

Dr. Andrea Cavallaro
Queen Mary University

“Observing People with Multiple Cameras”
Thursday, October 4, 2012 • 10:00 a.m. • HEC 101

ABSTRACT

After a brief overview of our current activities in distributed tracking, audio-visual behavior recognition and multi-camera synchronization, I will focus on people re-identification in camera networks with non-overlapping fields of view. In particular I will show the benefits of predicting people trajectories in unobserved areas by fusing data extracted from the map of the monitored site, including expected goals representing specific interest points, with detections from the fields of view. This prediction algorithm for modeling movements in the site will be demonstrated in an airport scenario and compared with well-known person re-identification methods, highlighting their strengths and limitations.

BIOGRAPHY

Andrea Cavallaro is Professor of Multimedia Signal Processing at Queen Mary University of London, UK. He received his Ph.D. in Electrical Engineering from the Swiss Federal Institute of Technology (EPFL), Lausanne, in 2002 and the Laurea (Summa cum Laude) in Electrical Engineering from the University of Trieste in 1996. He was a Research Fellow with British Telecommunications (BT) in 2004/2005 and was awarded the Royal Academy of Engineering teaching Prize in 2007; three student paper awards on target tracking and perceptually sensitive coding at IEEE ICASSP in 2005, 2007 and 2009; and the best paper award at IEEE AVSS 2009. Prof. Cavallaro is Area Editor for the IEEE Signal Processing Magazine; and Associate Editor for the IEEE Transactions on Signal Processing and the IEEE Transactions on Image Processing. He is an elected member of the IEEE Signal Processing Society, Image, Video, and Multidimensional Signal Processing Technical Committee. Prof. Cavallaro was General Chair for IEEE/ACM ICDCS 2009, BMVC 2009, M2SFA2 2008, SSPE 2007, and IEEE AVSS 2007; and Technical Program chair of IEEE AVSS 2011; the European Signal Processing Conference (EUSIPCO 2008) and of WIAMIS 2010. He has published more than 130 journal and conference papers, and three books: Multi-camera networks (2009), Elsevier; Video Tracking (2011), Wiley; and Analysis, retrieval and delivery of multimedia content (2012), Springer.

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