Video Analytics: Extracting High-Level Information Based on Low-level Image Features

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Surveillance cameras are everywhere. In the United States only, more than 30 million cameras produce nearly 4 billion hours of video footage every week. In this context, and with the decreasing cost of IP cameras and storage units, requirements for smart surveillance applications is becoming a glaring issue. This presentation will focus on three (3) video analysis projects on which we have been working recently at the University of Sherbrooke, Canada. These projects are on search and navigation in long video surveillance, detection of trends in video surveillance and change detection validation.

Biography: Pierre-Marc Jodoin got the PhD degree in computer vision and video analysis at the University of Montreal (2007). He is now Associate Professor at the Université de Sherbrooke, Canada. He co-founded and now is director of the Research center for intelligent environments at Sherbrooke. He also co-founded the Sherbrooke medical imaging analysis platform, as well as the [http://Imeka.ca](http://Imeka.ca) initialive, a start-up company devoted to medical imaging analysis. His research interests are in video surveillance, video analysis, medical imaging, and computer vision. In 2012, he co-organized the CVPR change detection workshop and released the [changedetection.net](http://changedetection.net) dataset, the largest dataset in the world devoted to change detection. He is currently an associate editor of IEEE transactions on image processing.