VSSN 2005 3rd ACM International Workshop on Video Surveillance & Sensor Networks November 11-12, 2005, Singapore in conjunction with ACM Multimedia 2005 http://imagelab.ing.unimo.it/vssn05 General chairs CALL FOR PAPER J. K. Aggarwal, University of Texas, The VSSN Workshop 2005 is the 3rd organized edition in conjunction with ACM USA Conference of Multimedia. Following the strong interest of the past editions, the workshop will bring together researchers, developers and practitioners from academia and industry to discuss of both theoretical aspects and practical implementations of Edward Chang, new generations of video surveillance and sensor networks and novel multimedia UC, Santa Barbara, applications in the field. USA The workshop will cover these two aspects in separate sections: theoretical aspects of video surveillance and sensor networks: new algorithms and models of computer vision and pattern recognition; new paradigms for Program chairs managing surveillance multimedia data, new architectures of cameras and Rita Cucchiara, sensors, novel coordination and communication aspects. University of Modena innovative project implementation and applications: new civil and military applications, indoor our outdoor surveillance, surveillance of people or other and Reggio Emilia, moving objects, ambient intelligence applications Italy The workshop topics will include, but are not limited to, the following: Video Surveillance and sensor network architecture 0 Yuan-Fang Wang, Multi-Camera, multi-sensor calibration UC, Santa Barbara, Camera and/or sensor fusion Cameras and/or sensors coordination and synchronization USA New sensors, new cameras architectures Self-configurable and Scalable Network Architectures **Program** Video analysis Deterministic and probabilistic tracking <u>committe</u>e Motion Detection and Tracking Lisa M. Brown, USA Object Detection and Recognition in Unconstrained Shih-Fu Chang, USA Isaac Cohen, USA Environments Larry Davis, USA People behaviour control Yihong Gong, USA People posture, gesture, face and interaction analysis Mohan S Kankanhalli, Sg. Scene recognition Jang Li, China Augmented video analysis (with audio and other sensors) Rainer Lienhart, Germany Machine Learning Techniques for Event Mining Roberto Manduchi, USA Spatio-temporal Data Mining Vittorio Murino, Italy Massimo Piccardi, Australia Sensor (Stream) Multimedia Surveillance Data management Andrea Prati, Italy Annotation, Indexing and Storage Stan Sclaroff, USA Archival/Retrieval of Sensor Data Mubarak Shah, USA Query Paradigms and Languages Mohan Trivedi, USA The one day workshop will open with a special session consisting of three to four Sergio Velastin, UK papers that will introduce and overview the research area. Oral Presentations will then Ramesh Visvanathan, USA be organized together with possible demo/poster sessions. The accepted papers will be Ying Wu, USA available electronically from the workshop website, and also as printed workshop notes (published by ACM Multimedia). Selected papers with substantial extensions (with at least 35% new materials) will be recommended to submit to a special issue of ACM Journal of Multimedia "Multimedia surveillance systems". The deadline for the extension will be at the beginning of January 2006. **Important Dates** Deadlines Submission: August 17, 2005 Decision: August 22, 2005 Camera ready: August 29, 2005

Algorithm competition
VSSN 2005 Open Source Algorithm Competition
Organizer: Rainer Lienhart, University of Augsburg, Germany Committee: Rita Cucchiara, Edward Chang, Eva Hörster [to be finalized] Web site: <u>www.multimedia-computing.org/VSSN05_OSAC/</u> (online staring June, 6th 2005)
Progress in the field of video surveillance is slowed down by the lack of open reference implementations and fair competition (i.e., open and public benchmarks) on common problems in video surveillance. Starting this year we will select each year a well-defined surveillance aspect, on which researcher and engineers can compete by focusing on the core aspect only. The supporting source code and data infrastructure will be provided by the competition organizers.
This year's algorithm competition is on background / foreground segmentation from fixed cameras.
We invite researcher and engineers in the field to submit their algorithm in C/C++ source against a minimal predefined Application Programming Interface (API) consisting of only 3 functions (createBGStatModel(), updateBGStatModel(), releaseBGStatModel()) and one data structure using the OpenCV framework (<u>http://sourceforge.net/projects/opencvlibrary</u>). Each submitted algorithm must be accompanied by a 4-page paper describing the algorithm. Training sequences, two source code reference implementations, and the source code of the evaluation procedure using the above defined API are provided starting June, 6th 2005. The submissions (deadline 22. Aug 2005) will be tested against unknown, but similar test cases. All complete and working submissions are given the opportunity to present their algorithm as a poster, while the best performing algorithms will get the change to present orally. Furthermore, researcher will have the opportunity to include their source code into next OpenCV release.