

# The Second IEEE Workshop on Embedded Computer Vision

June 18, 2006, New York, NY, USA  
Held in conjunction with IEEE CVPR 2006

## Final Program

8:00-8:30 Breakfast

8:30-8:45 Introductory remarks (Conference Chairs)

8:45-10:15 Session 1, Smart Cameras  
Chair: Moshe Ben-Ezra

*3D Surveillance — A Distributed Network of Smart Cameras for Real-Time Tracking and its Visualization in 3D*, Sven Fleck, Florian Busch, Peter Biber, Wolfgang Strasser.

*Reading LCD/LED Displays with a Camera Cell Phone*, Huiying Shen, Coughlan James.

*The G2: a Taskable, Embedded Stereo Camera*, John Woodfill, Gaile Gordon, Ron Buck, Dave Jurasek, Terry Brown.

10:15-10:45 Morning break

10:45-12:15 Session 2, Invited Talks  
Chair: Wayne Wolf

Eric Collins, MediaWorks

Ed Deprettere, Leiden University

Bruce Flinchbaugh, Texas Instruments

12:15-1:15 Lunch (on our own)

1:15-3:15 Session 3, Embedded Computer Vision Applications

Chair: Branislav Kisacanin

*Reconfigurable Streaming Architectures for Embedded Smart Camera Applications*, Sek Chai, Nikolaos Bellas, Greg Kujawa, Tom Ziomek, Linda Dawson, Tony Scaminaci, Malcolm Dwyer, Dan Linzmeier.

*An Embedded Platform for Remote Traffic Surveillance*, Clemens Arth, Christian Leistner, Horst Bischof.

*Model Based Design of Embedded Vision Applications for Intelligent Vehicles*, Juergen Kogler, Hannes Hemetsberger, Stefan Borbely, Wilfried Kubinger.

*Fast Image Motion Computation on an Embedded Computer*, Xiaoye Lu, Roberto Manduchi.

3:15-3:45 Afternoon break

3:45-5:15 Session 4, Computer Vision on Configurable Hardware

Chair: Neal Bambha

*A Proposed Pipelined-Architecture for FPGA-Based Affine-Invariant Feature Detectors*, Cristina Cabani, W. James MacLean.

*Hardware/Software Co-Design of an FPGA-based Embedded Tracking System*, Jason Schlessman, Cheng-Yao Chen, Burak Ozer, K Fujino, K Itoh, Wayne Wolf.

*An FPGA-Based Verification Framework for Real-Time Vision Systems*, Gooitzen van der Wal, Michael Piacentino, Frederick Brehm, Eduardo Gudis, James Marakowitz, Azhar Sufi, James Montante.

5:15-5:30 Discussion and closing remarks