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Edward M. Carapezza
Editor

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Introduction

The interest in sensors and command, control, communication, and intelligence (C3I) technologies for homeland security and homeland defense applications has dramatically increased since September 11, 2001. Government agencies are making large investments to develop homeland defense and security technologies. The task of defending US assets and monitoring our borders is overwhelming, but significant progress is being made in large part by the commitment of this conference's presenters and attendees.

The conference contained 53 papers organized into nine technical and four joint and keynote sessions covering recent advances in Command, Control, Communications, and Intelligence (C3I), Robotic and Mobile Sensor Technologies and Systems, Cyber-crimes and Cyber-terrorism, Security and Surveillance Systems Technologies and Systems, Radar and Through-the-Wall Sensor Systems, Biological and Chemical Agent Sensor Technologies and Systems, Counter-sniper Systems, Intelligence Exploitation Systems and Technologies.

There were two joint keynote/invited sessions with Conference 6963 and two stand-alone keynote/invited sessions. The following six keynote/invited talks were given, and we sincerely thank all of these speakers for very stimulating and relevant presentations:

- 1) Enhanced cyber security with CyLab Technologies by Dr Pradeep Khosla (Carnegie Mellon University)
- 2) National Institute of Justice (NIJ): Current R&D in Biometrics by Stanley A. Erickson (National Institute of Justice)
- 3) A Computational Model of the Human Visual Cortex by Dr James Albus (National Institute of Standards and Technology)
- 4) MEMS and NEMS technologies for Sensor Applications by Dr Panos Datskos (Oak Ridge National Lab. and Univ. of Tennessee)
- 5) Design of Trustworthy Fielded Sensor Networks by Dr Greg Pottie (Univ. of California-Los Angeles)
- 6) Photon-Counting Passive 3D Image Sensing and Processing for Automatic Target Recognition by Dr Edward Watson (Air Force Research Lab.)

Thanks to those who prepared and presented the technical papers and for their contribution to a very successful meeting. The success of this conference is attributed to the participation of the commercial, university, and government research-and-development community as well as to the organizing efforts of the diverse and talented program committee. Thanks also to our program committee members for their dedication, time, and assistance in conference planning and organizing, and especially to those members who were able to participate as

session chairs including: Stanley A. Erickson (National Institute of Justice), Jeff R. Heberley (U.S. Army Armament RD&E Center), Todd M. Hintz (Naval Space and Warfare Center), Myron E. Hohil (U.S. Army Research, Development and Engineering Command), and Tien Pham (Army Research Lab). We could not have had so successful a technical conference without their excellent help and dedication.

Finally, an extra special thanks to all of the conference attendees this year for your interest and enthusiasm. The conference was well attended this year, with a lot of interest in all the sessions. We hope the interest in this technology continues to grow, and that this conference will expand with even greater technical content and significance in future years.

Edward M. Carapezza