



11th IEEE International Conference on Advanced Video and Signal-Based Surveillance

August 26-29, 2014 HanaSquare, Korea University, Seoul, Korea

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AVSS is the premier annual international conference in the field of video and signal-based surveillance that brings together experts from academia, industry, and government to advance theories, methods, systems, and applications related to surveillance. AVSS is sponsored by the IEEE and, in particular, by its two societies, the Signal Processing Society (IVMSP TC) and the IEEE Computer Society (PAMI TC).

AVSS will celebrate its 11th anniversary in Seoul in 2014. It has been steadily growing in both stature and attendance, from about 70 attendees in 1998 (Genova, Italy) to 125 in 2010 (Boston, USA), 140 in 2011 (Klagenfurt, Austria), and about 200 in 2013 (Krakow, Poland). A strong attendance is expected in Seoul in 2014. AVSS focuses on underlying theory, methods, systems, and applications of surveillance and invites submissions in areas listed below, especially cross-disciplinary and game-changing ones. The list of topics of interest includes, but is not limited to:

Sensor-Centric Processing

- Sensors (visible/infrared/3D/mm-wave/audio/radio, etc.)
- Ground, airborne, satellite based (fixed/mobile/UAV)
- Crowdsourcing (cellular, social networks)
- Calibration and positioning (GPS, etc.)
- Communications and networked sensing

Data Management & Human-Computer Interaction

- Compression and summarization
- Archival, search and retrieval
- Human-computer interfaces
- Visualization algorithms
- Mobile and distributed interaction

Security and Privacy

- Data authenticity
- Privacy in surveillance
- Forensics
- Biometrics (standoff, multi-modal, voice, etc.)
- Cybersecurity for surveillance (wireless, network, computer)

Paper Submission

Original contributions in any of the above (or related) areas are being solicited. Prospective authors are invited to submit full-length papers, up to 6 pages long, including results, figures, tables and references by the due date (see below). Detailed submission instructions will be posted on Paper Submission page in due time. Each submission will be double-blind peer-reviewed by at least two experts. The conference proceedings will be published in IEEE Xplore digital library.

Call for Workshops

AVSS-2014 will host workshops on August 26, 2014 prior to the technical program of the conference. Prospective organizers are invited to submit workshop proposals by **February 14, 2014**. Detailed instructions regarding workshop proposal preparation and submission can be found on the Call for Workshops page.

Important dates:

Workshop proposals: February 25, 2014

Paper submission: March 31, 2014

Paper acceptance: June 4, 2014

Camera ready: June 20, 2014

Early registration: June 20, 2014

Processing, Detection, Tracking & Recognition

- Modeling and feature selection
- Detection and estimation (change, motion, anomaly, saliency, pattern)
- Data association and (multi) target tracking
- Classification and recognition
- Multi-modal fusion

Analytics, Situation Awareness & Decision Making

- Activity/interaction analysis and monitoring
- Intention
- estimation and situation awareness
- Crowdsourcing-based methods
- Cognitive dynamic systems and bio-inspired methods

Surveillance Systems and Applications

- Hardware and software architectures
- Research prototypes
- Simulators
- Civilian, industrial, and military
- Transportation (road, rail, air, maritime)
- Performance evaluation



Webpage : <http://www.avss2014.org>

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