

**12TH
IEEE
INTERNATIONAL
CONFERENCE ON** **ADVANCED
VIDEO AND
SIGNAL-BASED
SURVEILLANCE.**

**AUGUST 25-28
2015** **KARLSRUHE
GERMANY.**



GENERAL CHAIR

JÜRGEN BEYERER, FRAUNHOFER IOSB / KIT, GERMANY.
RAINER STIEFELHAGEN, KIT, GERMANY.

**ORGANIZATION CHAIR
PROGRAM CHAIRS**

EDUARDO MONARI, FRAUNHOFER IOSB, GERMANY.
ROMAN PFLUGFELDER, TU GRAZ/AIT, AUSTRIA.
STEFANO TUBARO, POLITECNICO DIE MILANO, ITALY.

WORKSHOPS CHAIR

RITA CUCCHIARA, UNIV. OF MODENA/REGGIO EMILIA, ITALY.
JORDI GONZÁLEZ, UNIV. AUTÒNOMA DE BARCELONA, SPAIN.

**CHALLENGE CHAIR
PUBLICITY CHAIRS
PUBLICATIONS CHAIR**

JAMES FERRYMAN, UNIV. OF READING, UK.
SIBYLLE WIRTH, FRAUNHOFER IOSB, GERMANY.
FRANCOIS BREMOND, INRIA, FRANCE.
JEAN-MARC ODOBEZ, IDIAP/EPFL, SWITZERLAND.

**LOCAL ARRANGEMENTS
& FINANCIAL CHAIR
AREA CHAIRS**

UWE BÖHM, KIT, GERMANY.
MARION STAUB, FRAUNHOFER IOSB, GERMANY.
FATIH PORIKLI, NICTA, AUSTRALIA.
MICHAEL ARENS, FRAUNHOFER IOSB, GERMANY.
BIR BHANU, UC RIVERSIDE, USA.
SAQUIB SARFRAZ, KIT, GERMANY.
JÖRG HÄHNER, UNIV. OF AUGSBURG, GERMANY.
JEAN-LUC DUGELAY, EURECOM, FRANCE.
FATIH PORIKLI, NICTA, AUSTRALIA.
CARLO REGAZZONI, UNIV. OF GENOVA, ITALY.
ANDREA CAVALLARO, QUEEN MARY UNIV. OF LONDON, UK.
MASSIMO PICCARDI, UNIV. OF TECH. SYDNEY, AUSTRALIA.
KOSTAS PLATANIOTIS, UNIV. OF TORONTO, CANADA.
BERNHARD RINNER, UNIV. OF KLAGENFURT, AUSTRIA.
PETER TU, GE GLOBAL RESEARCH, USA.
STEFANO TUBARO, POLITECNICO DIE MILANO, ITALY.
HANSEOK KO, KOREA UNIVERSITY SEOUL, KOREA.
JANUSZ KONRAD, BOSTON UNIVERSITY, USA.

STEERING COMMITTEE

INFO@AVSS2015.ORG

WWW.AVSS2015.ORG

12TH IEEE INTERNATIONAL CONFERENCE ON ADVANCED VIDEO- AND SIGNAL-BASED SURVEILLANCE

AUGUST 25-28, 2015. KARLSRUHE, GERMANY.



KARLSRUHE INSTITUTE OF TECHNOLOGY / FRAUNHOFER IOSB

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).

In 2015 the 12th AVSS will take place in Karlsruhe, Germany. It has been steadily growing in both stature and attendance, from about 70 attendees in 1998 (Genova, Italy) to 125 in 2010 (Boston, USA) and 140 in 2011 (Klagenfurt, Austria), up to about 160 in 2013 (Krakow, Poland).

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
- Distr. Camera Networks & Smart Cameras

Visualization and Interaction Concepts for Surveillance Systems

- 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)
- Cybersecurity for surveillance (wireless, network, computer)
- Advanced Biometrics at a Distance

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 AND TUTORIALS

AVSS-2015 will host workshops on August 25, 2015 prior to the technical program of the conference. Prospective organizers are invited to submit workshop proposals by March 1st, 2015. Detailed instructions regarding workshop proposal preparation and submission can be found on the Call for Workshops page.

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

PLATINUM SPONSOR(S):



GOLD SPONSOR(S):



SILVER SPONSOR(S):



BRONZE SPONSOR(S):



WEBPAGE:

WWW.AVSS2015.ORG

CONTACT:

INFO@AVSS2015.ORG

IMPORTANT DATES:

WORKSHOP PROPOSALS:

MAR. 1ST, 2015

PAPER SUBMISSION:

APR. 1ST, 2015

PAPER ACCEPTANCE: JUNE. 1, 2015

CAMERA READY: JUN. 29, 2015

EARLY REGISTRATION: JUN. 29, 2015