17th IEEE International Conference on Advanced Video and Signal-based Surveillance

16-19 November, 2021 | Virtual

http://www.avss2021.org/

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About AVSS 2021

- The 17th IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS 2021), sponsored by the IEEE Computer Society (PAMI TC) and the IEEE Signal Processing Society, is the premier forum for the presentation of new advances and research results in the field of video and signal-based surveillance.
- The goal is to provide a game-changing and cross-disciplinary forum that brings together experts from academia, industry, and government to advance the frontiers of theories, methods, systems, and applications.
- Prospective authors are invited to submit high-quality full papers representing original results in all areas of video and signal-based surveillance.
- Submissions and final papers are limited to 6 pages in double-column IEEE format, including figures, tables, and references. Accepted papers are published in the conference proceedings that will be also available in the IEEE Xplore digital library.

Location

The 17th IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS 2021) will be a virtual conference from November 16 to November 19, 2021.

Important Dates

- *Paper submission: July 1, 2021*
- *Decision to authors: August 25, 2021*
- *Tutorial proposals due: July 15, 2021*
- *Final camera-ready papers due: September 15, 2021*
- *Challenge Proposals Due: May 20, 2021*
- *Workshop proposals due: May 20, 2021*
- *Main conference: November 16-19, 2021*

Call for Contributions

AVSS 2021 solicits submissions of contributions for the following topics, including but 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 | Distributed Camera Networks and Smart Cameras | Participatory Sensing

PROCESSING, DETECTION, TRACKING & RECOGNITION: Modelling and feature selection | Detection and estimation (change/motion/anomaly/saliency/pattern) | Data association and (multi) target tracking | Classification and recognition | Multi-modal fusion

VISUALIZATION AND INTERACTION CONCEPTS FOR SURVEILLANCE SYSTEMS: Compression and summarization | Archival, search and retrieval | Human-computer interfaces | Visualization algorithms | Mobile and distributed interaction

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

SECURITY & PRIVACY: Data authenticity | Privacy in surveillance | Attacks on Surveillance Vulnerabilities | Forensics | Biometrics (standoff, multi-modal, voice, etc.) | Cybersecurity for surveillance (wireless, network, computer) | Advanced Biometrics at a Distance

SURVEILLANCE SYSTEMS AND APPLICATIONS: Hardware and software architectures | Research prototypes | Simulators | Civilian, industrial, and military | Transportation (road, rail, air, maritime) | Performance evaluation