16th IEEE International Conference on
Advanced Video and Signal-based Surveillance (AVSS)
Taipei, Taiwan
September 18 – 21, 2019

http://www.avss2019.org/

Call for Papers

IEEE International Conference on Advanced Video and Signal-based Surveillance (AVSS) is the leading conference venue for the underlying theory, methods, systems, and applications of video and signal based surveillance. AVSS invites submissions in areas listed below, especially on cross-disciplinary and game-changing subjects. 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 | 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

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 **eight pages** in double-column IEEE format**, including figures, tables, and references.** Templates for paper can be found at
LaTeX template: avss_latex_template.zip
Microsoft Word template: avss_word_template.zip
Accepted papers are published in the conference proceedings that will be also available in the IEEE Xplore digital library.

Double-blind peer review. AVSS 2019 uses a double-blind peer review procedure, i.e. the identity of authors is hidden from reviewers and the identity of reviewers is hidden from authors. In order to identify a paper, one of the authors must first register as a user on the CMT submission website https://cmt3.research.microsoft.com/AVSS2019 and enter the paper title and abstract. This will result in the allocation of a Paper ID that must be used instead of author names in the preparation of the submission for review. Please be sure to read both the formatting instructions in the templates and policies (below) before submission.

Opportunity for CVIU Special Issue Publication

High quality AVSS'19 papers (including the best papers) will be invited for submission to a **Special Issue of Elsevier Computer Vision and Image Understanding (CVIU)** journal, which will go through the CVIU review process.

Important Dates:
Preliminary Abstract Submission: ~~Wednesday May 1, 2019 (23:59:59 PST)~~
Wednesday May 22, 2019 (23:59:59 PST)
Submission of Full Papers: ~~Sunday May 5, 2019 (23:59:59 PST)~~
Sunday May 26, 2019 (23:59:59 PST)
Notification of Acceptance: Monday July 1, 2019
Submission of Camera-Ready Papers: July 15, 2019
Conference: September 18-21, 2019