



Call for Papers

General Chairs

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University of Westminster, UK
Sergio A Velastin
Cortexica Vision Systems, UK

Local Chairs

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Epaminondas Kapetanios
University of Westminster, UK

Local Organizing Chair

Karen Foster
University of Westminster, UK

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Virginia Tech, USA

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Austrian Institute of Technology,
Austria

Sanaul Hoque (UK)
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Wilson Rivera (Latin America)
University of Puerto Rico,
Puerto Rico

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Southeast University, PR China

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sensors
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AIMS AND SCOPE

Over recent years, the availability of much larger amounts of data, cheap parallel hardware such as GPU and new machine learning methods such as deep learning have made a significant impact on how data is interpreted. In the UK and worldwide, there is an increased interest to effectively analyse massive unbiased data, generated from very different sources and with many different features such as social networks, surveillance systems, smart cities, cyberphysical systems, address and find solutions on the vulnerability of public spaces and individuals. However, there are serious limitations to the use of conventional monitoring systems where human operators are asked to survey a large number of cameras with a wide geographical coverage or go through enormous amounts of recorded material for forensic investigations. We are keen to see how developments on complex systems, adaptive behaviours, and machine learning methods have impacted the field of crime detection and prevention in particular and the monitoring of public places in general. This conference follows the successful IDSS (Intelligent Distributed Surveillance Systems) events held in 2003 and 2004 and ICDP 2005, 2006, 2009, 2011, 2013, 2015, 2016 and 2017 to bring together researchers, industry, end-users, law-enforcement agencies and citizens groups to share experiences and explore areas where additional research and development are needed, identify possible collaboration and consider the societal impact of such technologies. *Full papers* are invited on all aspects of Imaging Surveillance technologies, from academia, industry, NGOs and others, to be selected for oral presentations or posters through a peer-review system. An indicative, not exclusive, list of relevant topics is:

- Surveillance Systems and solutions (system architecture aspects, operational procedures, usability, scalability)
- Multi-camera systems
- Information fusion (e.g. from visible and infrared cameras, microphone arrays. etc.)
- Learning systems, Cognitive Systems Engineering and video mining
- Robust computer vision algorithms (24/7 operation under variable conditions, object tracking, multi-camera algorithms, behaviour analysis and learning, scene segmentation)
- Human Machine Interfaces, Human Systems Engineering and Human Factors
- Wireless communications and networks for video surveillance, video coding, compression, authentication, watermarking, location-dependent services
- Metadata generation, video database indexing, searching and browsing
- Embedded systems, surveillance middleware
- Gesture and posture analysis and recognition
- Deep neural networks in visual surveillance
- Biometrics (including face recognition)
- Forensics and crime scene reconstruction
- X-Ray and Terahertz scanning
- Location big data mining with cellular automata
- Case studies, practical systems and testbeds
- Data protection, civil liberties and social exclusion issues
- Algorithmic bias and transparency for machine learning
- AI ethics
- Custom FPGA based approximate computing

Conference website: <http://www.icdp-conf.org>

We expect a number of invited speakers from law enforcement agencies, industry and academia

Accepted papers will be published on the IET's Digital Library, indexed by Inspec (and normally by IEEE Xplore and Scopus) **only if** at least one author registers and presents the work. Authors of exceptional papers will be encouraged to submit extended versions to be considered for publication in a Special Issue of the Sensors Journal (impact factor 3.03) and IET research journals. There are delegate fee discounts for authors, students and members of the IET and sponsoring organisations.

KEY DATES

Receipt of full papers (maximum of 6 pages in PDF format using the prescribed format).

Notification of acceptance

Receipt of camera-ready papers

23rd September 2019

23rd October 2019

10th November 2019



UKRI I&M Chapter
UKRI CAS Chapter

