

**Title:**

Intelligent Multimedia Computing

Abstract:

In the last decade, artificial intelligence technology has attracted tremendous interest from both academia and industry. Artificial intelligence is an emerging collection of methodology that imitates human intelligence, such as deep learning, neural networks, fuzzy systems, and evolutionary methods, etc. Recent advances in multimedia sensing and computing technologies are fuelling a new wave of user demands for more interactive, realistic and immersive visual experiences. This has attracted massive research efforts devoted to address challenges in the area of multimedia computing. Artificial intelligence technology has been widely used in recent years to address complex and challenging real-world image and video processing problems, including visual surveillance, healthcare, smart cities, and security. The main aim of this workshop organized at the fifth International Conference on Artificial Intelligence and Security (ICAIS 2019) is to bring together both academician and practitioners working on artificial intelligence and multimedia computing to discuss new and existing issues in this area. We encourage papers that are unpublished original work for this workshop at ICAIS 2019.

Scope and Topics:

The objective of this workshop is to invite authors to submit original manuscripts that demonstrate and explore current advances in all aspects of multimedia computing.

Topics of interest include, but are not limited to:

[Area I] Artificial intelligence

- ✧ Deep network
- ✧ Soft computing methodologies
- ✧ Neural networks
- ✧ Swarm intelligence
- ✧ Machine learning
- ✧ Evolutionary computing
- ✧ Fuzzy systems
- ✧ Bayesian networks

[Area II] Multimedia Computing

- ✧ Image/video processing, registration, restoration and enhancement
- ✧ Image/video analytics, object detection and tracking, event recognition, behavior understanding



- ✧ Image/video compression, coding and transmission
- ✧ Image/video processing in biomedical sciences, geosciences and remote sensing, and others

Program Committee Chairs:

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Xin Xu received the B.Sc. and Ph.D. degree from Shanghai Jiao Tong University, China. He is a technical committee member on Information Assurance & Intelligent Multimedia-Mobile Communications in IEEE SMC society. In recent years, he has served as session chair and program committee member for several international conferences. His research grants comprise of several external funding include the National Natural Science Foundation of China, the Natural Science Foundation of Hubei Provincial of China, the Young Scientists Foundation from Educational Commission of Hubei Province, and etc.

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Jing Tian received his B.Eng. degree (Electronic and Information Engineering), from School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China, M.Eng. degree (Electronic and Information Engineering), from School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China, Ph.D. degree (Electrical and Electronic Engineering), from School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore. Currently, he is with Institute for Systems Science, National University of Singapore, Singapore. His research interests include image processing, pattern recognition and computer vision.