

CYBERWORLDS

3-5 October
Singapore

2018

International Conference

 **Fraunhofer**
SINGAPORE

17th in the series, CW 2018 is organized by Fraunhofer Singapore in cooperation with ACM SIGGRAPH, Eurographics Association, and International Federation for Information Processing

CW 2018 SCOPE:

Created intentionally or spontaneously, cyberworlds are information spaces and communities that use computer technologies to augment the way we interact, participate in business and receive information throughout the world. CW 2018 will have the following tracks and topics:

GENERAL TRACK:

Applications of virtual and augmented reality; Networked and shared virtual worlds; Virtual collaborative spaces; Shape modeling for cyberworlds; Virtual humans and avatars; Multimodal interaction and rendering; Computer vision for augmented and mixed reality; Social computing; Online communities; Cyber-learning; Multi-user web games; Art and heritage in cyberspace; Cyber-museums; Cyberethics and cyberlaws; Welfare in cyberworlds; Data mining and warehousing in cyberworlds; Visual analytics in cyberworlds

COGNITIVE HUMAN-MACHINE INTERACTION:

Cognitive informatics; Human factors in transportation, maritime, industry 4.0; Neurorehabilitation and neuroplasticity; Affective computing; Mobile BCI; Machine and deep learning for EEG-based algorithms; Multi-modal Interfaces; Neurofeedback systems and games; BCI applications

CYBERSECURITY AND BIOMETRICS:

Security protocols; Authentication protocols; Privacy protocols; Password security; Content protection and digital rights management; Security of personal data; Risk and reputation management; Identity and trust management; Information hiding and anonymity; Privacy, security and trust in social media; Security of embedded systems; Behavioral biometrics; Performance evaluation of biometric systems; Multi-biometrics; Quality of biometric data; Biometric template protection; Presentation attack detection; Emerging biometrics

CYBER CITIES AND CYBER MANUFACTURING:

Real-time analytics, modelling, and simulation for the future smart cities and urban mobility; 3D city modelling, processing and simulation; Predictive analytics and machine learning for future healthcare; Medical Computing for future healthcare; Visual Computing for active ageing; Cyber-physical systems technologies; Computer vision for industry 4.0 / smart manufacturing; Optical inspection for industry 4.0 / smart manufacturing; Virtual and Augmented Reality for the future smart cities and smart manufacturing

SUBMISSION CATEGORIES: full papers (up to 8 pages), short papers (up to 4 pages), and poster papers (up to 4 pages)

CONFERENCE PROCEEDINGS with all accepted papers will be published by Conference Publishing Services as well as submitted to the IEEE Xplore Digital Library, IEEE Computer Society Digital Library and reference databases of all major referencing indices including EI Compendex, Scopus and SCI



SPECIAL JOURNAL ISSUES will consider for publications extended versions of all accepted full papers: Computers & Graphics (Elsevier); The Visual Computer (Springer); Transactions on Computational Science (Springer, LNCS); Advanced Engineering Informatics (Elsevier); Journal of Future Generation Systems (Elsevier); International Journal of Art, Culture, and Design Technologies (IGI Global)

IMPORTANT DATES:

7 May Papers submission
25 June Papers notification
2 July Poster papers submission
16 July Poster papers notification

GENERAL CHAIR: Wolfgang Mueller-Wittig (Fraunhofer Singapore)

PROGRAM CHAIR: Alexei Sourin (Nanyang Technological University)

TRACK CHAIRS: Olga Sourina (Fraunhofer Singapore)
Christophe Rosenberger (Normandy University)
Marius Erdt (Fraunhofer Singapore)

www.cyberworlds-conference.org

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