

# CyberSciTech 2019

## The 4<sup>th</sup> IEEE Cyber Science and Technology Congress

August 5-8, 2019, Fukuoka, Japan

<http://cyber-science.org/2019/>

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### IMPORTANT DATES

**Workshop/SS Proposal Due:** Jan. 20, 2019

**Regular Paper Submission Due:** Mar. 20, 2019

**Wksp/SS/Poster Paper Due:** April 20, 2019

**Authors Notification:** May 25, 2019

**Camera-ready Submission:** June 20, 2019

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### Cyber Science for Cyber-enabled New Worlds

Cyberspace, the seamless integration of physical, social, and mental spaces, is an integral part of our society, ranging from learning and entertainment to business and cultural activities, and so on. There are, however, a number of pressing challenges such as safety and trust associated with the cyberspace. For example, how do we strike a balance between the need for strong cybersecurity and preserving the privacy of ordinary citizens?

To address these challenges, there is a need to establish new science and research portfolios that incorporate cyber-physical, cyber-social, cyber-intelligent, and cyber-life technologies in a cohesive and efficient manner. This is the aim of the IEEE Cyber Science and Technology Congress (CyberSciTech). IEEE CyberSciTech has been successfully held in Auckland, New Zealand, in 2016, in Orlando, USA, in 2017 and in Athens, Greece, in 2018.

In 2019, we will continue to offer IEEE CyberSciTech with the aim of providing a common platform for scientists, researchers, and engineers to share their latest ideas and advances in the broad scope of cyber-related science, technology, and application topics. In addition, this is also a platform to allow relevant stakeholders to get together, discuss and identify ongoing and emerging challenges, in order to understand and shape new cyber-enabled worlds.

### IEEE CyberSciTech 2019 Tracks and Topics

#### Track 1: Cyberspace Theory & Technology

- ✧ Cyberspace Property, Structure & Models
- ✧ Cyber Pattern, Evolution, Ecology & Science
- ✧ SDN/SDS, 5G/6G, Vehicle & Novel Network
- ✧ Cloud, Fog, Edge & Green Computing
- ✧ Big Data Analytics, Technology & Service
- ✧ Infrastructures for Smart City/Country

#### Track 2: Cyber Security, Privacy & Trust

- ✧ Cyber Security, Safety & Resilience
- ✧ Cyber Crime, Fraud, Abuse & Forensics
- ✧ Cyber Attack, Terrorism, Warfare & Defense
- ✧ Cyber Privacy, Trust & Insurance
- ✧ Blockchain, DLT Techniques & Applications
- ✧ Post-quantum Cryptography

#### Track 3: Cyber Physical Computing & Systems

- ✧ Cyber Physical Systems & Interfaces
- ✧ Cyber Physical Dynamics & Disaster Relief
- ✧ Cyber Manufacturing & Control
- ✧ Embedded Systems & Software
- ✧ Autonomous Robots & Vehicles
- ✧ Internet of Things (IoT) & Smart Systems

#### Track 4: Cyber Social Computing & Networks

- ✧ Social Networking & Computing
- ✧ Computational Social Science
- ✧ Crowd Sourcing, Sensing & Computing
- ✧ Cyber Culture, Relation, Creation & Art
- ✧ Cyber Social Right, Policy, Laws & Ethics
- ✧ Cyber Learning, Economics & Politics

#### Track 5: Cyber Intelligence & Cognitive Science

- ✧ Cyber/Digital Brain & Artificial Intelligence
- ✧ Hybrid & Hyper-connected Intelligence
- ✧ Affective/Mind Cognition & Computing
- ✧ Brain/Mind Machine Interface
- ✧ Intelligent Multimedia Technology
- ✧ Intelligent Object, Environment & Service

#### Track 6: Cyber Life & Wellbeing

- ✧ Cyber Life & Human Centric Computing
- ✧ Cyber Medicine, Healthcare & Psychology
- ✧ Cyborg/Wearable/Implantable Technology
- ✧ Human/Animal Behavior Recognition
- ✧ Personal Big Data & Personality Computing
- ✧ Virtual, Augmented & Mixed Reality

### CyberSciTech 2019 Submissions and Publications

IEEE CyberSciTech 2019 calls for original papers, posters, as well as workshop and special session proposals, which focus on specific subjects related to cyber science and technology. All accepted conference, workshop, special session, and poster papers will be published by IEEE in Conference Proceedings (IEEE-DL and EI indexed). Selected high quality papers will be recommended to prestige journal special issues.

### Three Co-located IEEE International Conferences

- ◆ The 17th IEEE Int'l Conf. on Dependable, Autonomic & Secure Computing (**DASC 2019**)
- ◆ The 17th IEEE Int'l Conf. on Pervasive Intelligence and Computing (**PICom 2019**)
- ◆ The 5th IEEE Int'l Conf. on Cloud and Big Data Computing (**CBDCom 2019**)