



**13th International Conference on Computational
Collective Intelligence ICCCI 2021**
Hybrid Mode
29 September – 1 October 2021, Rhodes, Greece



PEIS 2021

Special Session on Pervasive Embedded Intelligent Systems

at the 13th International Conference on Computational Collective Intelligence (ICCCI 2021)

Rhodes, Greece, 29 September – 1 October 2021

Conference website: <http://www.iccci.pwr.edu.pl/>

Special Session Organizers

Assoc. Prof. SMN Arosha Senanayake

Leader of Intellihealth Solutions
University of Brunei, Brunei
E-mail: arosha@intelli-health.org

Assoc. Prof. PWC Prasad

School of Computing and Mathematics
Charles Sturt University, Australia
E-mail: CWithana@csu.edu.au

Objectives and topics

Pervasive embedded intelligence addresses the increase need of data service architectures beyond cloud service technologies that allow lower latency and connectivity independence leading to time critical processes and robust performance even in the absence of internet connectivity such as augmented reality, mixed reality, healthcare, logistics, transport, agriculture, energy, security, etc by availing domain specific data centers. The PEIS 2021 Special Session at the 13th International Conference on Computational Collective Intelligence (ICCCI 2021) is devoted to the pervasive embedded intelligent methods addressing domain specific data service architectures and data centers required for time critical system design and implementation. We want to offer an opportunity for researchers and practitioners to identify new promising research directions as well as to publish recent advances in this area. The scope of the PEIS 2021 includes, but is not limited to the following topics:

- Pervasive embedded intelligent architectures and its applications
- Domain specific data service architectures and its usage in real world applications.
- Domain specific data centers for time critical systems design and implementation.
- Intelligent systems in the absence of internet connectivity.
- Augmented reality for pervasive embedded intelligence
- Mixed reality for pervasive embedded intelligence
- Embed intelligence in robots for manufacturing preventing downtime
- Intelligent medical and healthcare devices for time critical monitoring
- Smart warehouse robots for logistics and distribution
- Autonomous vehicles and intelligent transport systems
- Smart farming technologies for agriculture based industries
- Smart energy technologies and smart grids
- Smart material design for self-powered (body mechanics)/hybrid powered machine

Important dates

Submission of papers: **15 May 2021 (Hard deadline)**

Notification of acceptance: **15 June 2021**

Camera-ready papers: **30 June 2021**

Registration & payment: **30 June 2021**

Conference date: **29 September – 1 October 2021**

Program Committee (to be invited)

Minoru Sasaki, Gifu University, Japan
Michael Yu Wang, Hong Kong University, Hong Kong
William C. Rose, University of Delaware, USA
Le Hoang Son, Vietnam National University, Vietnam
Darwin Gouwanda, Monash University, Malaysia
Owais A Malik, University of Brunei, Brunei
Ashutosh Kumar Singh, National Institute of Technology, India
Lau Siong Hoe, Multimedia University, Malaysia.
Amr Elchouemi, Forbes School of Business and Technology, USA
Abeer Alsadoon, Charles Sturt University, Australia
Sabih Rehman, Charles Sturt University, Australia
Nectar Costadopoulos, Charles Sturt University, Australia
K.S. Senthilkumar, St. George's University, Grenada
Yuexian Zou, Peking University, China

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: **PEIS 2021: Special Session on Pervasive Embedded Intelligent Systems.**

<https://easychair.org/conferences/?conf=iccci20210>

Authors are invited to submit original previously unpublished research papers written in English, of up to 13 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at [Springer's web site](#). Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the PEIS 2021 Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).