



ICONIP 2023

November 20-23, 2023, Changsha, China

Invited Session Proposal for ICONIP2023

Title: Advanced Computational Intelligence for Sustainable Transportation

Description:

The urgency of climate change and environmental pollution has made sustainable transportation a vital topic. Advanced computational intelligence techniques like machine learning, deep learning, intelligent optimization, and data mining have immense potential in enhancing the sustainability of transportation systems. This special session is designed to assemble researchers and practitioners from academia and industry to showcase and discuss the latest developments and challenges in utilizing advanced computational intelligence for sustainable transportation.

We invite original research papers and review articles that present new insights, empirical results, or theoretical advancements in the application of computational intelligence techniques for sustainable land, air, and maritime transportation planning and management. All submissions will be subject to a rigorous peer-review process to ensure high-quality publications. This special session will focus on the application of computational intelligence techniques (within the scope of ICONIP 2023) in transportation.

Topics include (but are not restricted to):

- Smart charging and energy management systems
- Intelligent transportation systems for sustainable mobility
- Sustainable urban transportation planning and optimization
- Intelligent public transportation for sustainability
- Randomized simulation and modeling of transportation systems
- Big data analytics for sustainable transportation
- Alternative fuel vehicles with intelligent operations
- Cybersecurity in sustainable transportation systems

Proposers:

1. Ruobin Gao, Research Fellow, Nanyang Technological University, ruobin.gao@ntu.edu.sg
2. P. N. Suganthan, Professor, Qatar University, p.n.suganthan@qu.edu.qa
3. Kevin X. Li, Professor, Zhejiang University, kxli@zju.edu

4. Kum Fai Yuen, Assistant Professor, Nanyang Technological University,
kumfai.yuen@ntu.edu.sg