IEEE WCCI 2024 Yokohama Japan

IEEE World Congress on Computational Intelligence
June 30 – July 5, 2024

WCCI IJCNN CALL FOR PAPERS

IMPORTANT DATES

15 November 2023
Special Session & Workshop Proposals Deadline

15 December 2023
Competition & Tutorial Proposals Deadline

15 January 2024
Paper Submission Deadline

15 March 2024
Paper Acceptance Notification

1 May 2024
Final Paper Submission & Early Registration Deadline

30 June – 5 July 2024
IEEE WCCI 2024
Yokohama, Japan

ORGANIZIERS

Dr. Keqiuyin Li
University of Technology Sydney
keqiuyin.li@uts.edu.au

Dr. Hua Zuo
University of Technology Sydney
hua.zuo@uts.edu.au

Dr. Zhen Fang
University of Technology Sydney
zhen.fang@uts.edu.au

Prof. Luis Martinez
University of Jaén
martin@ujaen.es

Prof. Jie Lu
University of Technology Sydney
jie.lu@uts.edu.au

Prof. Guangquan Zhang
University of Technology Sydney
guangquan.zhang@uts.edu.au

Submit your paper
https://2024.ieeewcci.org/submission

Domain Adaptation for Complex Situations: Theories, Algorithms and Applications

IJCNN 2024 The International Joint Conference on Neural Networks (IJCNN) covers a wide range of topics in the field of neural networks, from biological neural networks to artificial neural computation.

Special Session Abstract

Domain adaptation aims to learn a model by training data such that the model can generalize well on test data, even if the training data and test data are from different distributions. Evidence of successful investigations on theoretical development and the use of domain adaptation to support many real-world applications have been witnessed, mainly on computer version but also on natural language processing, privacy protection, medical analysis and so on. It is instructive, vital and timely to offer a unified view of the current trends for the fundamental and applied research of domain adaptation to improve machine learning, data science and practical decision support systems.

This special session aims to provide a forum for researchers in transfer learning to share the latest advantages in theories, algorithms, models and applications.

Topics of Interest

The main topics of this special session include, but are not limited to:

- New domain adaptation framework and theories
- Unsupervised/Semi-supervised domain adaptation
- Deep domain adaptation
- Multi-source/Multi-target domain adaptation
- Inaccessible source/target domain adaptation such as data-free domain adaptation
- Homogeneous/Heterogeneous domain adaptation
- Cross-modality transfer learning
- Incomplete domain adaptation such as open-set, partial and universal domain adaptation
- Domain generalization and out-of-distribution learning
- Few-shot domain adaptation
- Weakly supervised domain adaptation
- Complementary-label domain adaptation
- Applications in transport, healthcare, geosciences, business intelligence and more