



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**
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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 vision 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

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