INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS

IJCNN2025

30 JUNE - 5 JULY 2025 | ROME, ITALY
PONTIFICAL GREGORIAN UNIVERSITY

Special Session: Domain Adaptation for Complex Situations

The IJCNN is a premier international conference in the area of neural networks theory, analysis and applications. Whether you are presenting your latest work, learning from experts, or networking with peers, IJCNN 2025 promises to be an unforgettable experience that will inspire and propel the AI and neural network community forward. We look forward to welcoming you in Rome!

Domain Adaptation for Complex Situations: Theories, Algorithms and Applications

CALL FOR PAPERS:

Transfer learning aims to leverage knowledge acquired from source models to tackle target tasks, even when the source and target data come from different distributions or modalities. In recent years, foundational models and multimodal approaches have prospered in transfer learning, with substantial evidence of successful investigations into both the theoretical development and applications in various real-world contexts, including primarily computer vision, as well as fields such as natural language processing, privacy protection, generative AI, autonomous systems, robotics and healthcare. Offering a unified perspective on current trends in both fundamental and applied research on transfer learning is essential for advancing artificial intelligence, generative models, and practical decision support systems.

Topics of interest include but are not limited to:

» Large language model alignment
» Multimodal learning
» Prompt transfer
» Cross-modality transfer learning
» New transfer learning 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
» Homogeneous/Heterogeneous domain adaptation
» Incomplete domain adaptation such as open-set, partial and universal
» Domain generalization and out-of-distribution learning
» Few-shot domain adaptation
» Weakly supervised domain adaptation
» Complementary-label domain adaptation
» Applications in transport, healthcare, geosciences, finance and more

ORGANIZERS:

Dr. Keqiuyin Li
University of Technology Sydney, Australia
Keqiuyin.Li@uts.edu.au

Dr. Zhen Fang
University of Technology Sydney, Australia
Zhen.Fang@uts.edu.au

Dr. Hua Zuo,
University of Technology Sydney, Australia
Hua.Zuo@uts.edu.au

Prof. Luis Martínez
University of Jaén, Spain
martin@ujaen.es

A/Prof. Guangquan Zhang
University of Technology Sydney, Australia
Guangquan.Zhang@uts.edu.au

Dist. Prof. Jie Lu
University of Technology Sydney, Australia
Jie.Lu@uts.edu.au

AUTHOR INFORMATION:

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NOVEMBER 15, 2024
Special Session and Competition Proposals

JANUARY 30
~~JANUARY 15,~~ 2025
Regular Paper Submission Deadline

DECEMBER 15, 2024
Tutorial and Workshop Proposals

MARCH 31, 2025
Paper Acceptance Notification