



INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS

# IJCNN 2025

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

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**NOVEMBER 15, 2024**

Special Session and  
Competition Proposals

**JANUARY 15, 2025**

Regular Paper  
Submission Deadline

**DECEMBER 15, 2024**

Tutorial and Workshop  
Proposals

**MARCH 31, 2025**

Paper Acceptance  
Notification