International Conference on Cognitive Computing, Intelligence and Data Science Applications
Lakehead University, Thunder Bay, Canada
June 19–20, 2026
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International Conference on Cognitive Computing, Intelligence and Data Science Applications (CCIDSA)

Following the success of its inaugural edition, we are delighted to announce the 2nd International Conference on Cognitive Computing, Intelligence, and Data Science Applications (CCIDSA), which will take place on June 19–20, 2026, and will be hosted by the Image Analysis & Pattern Identification Research Lab (IAPI-RL) at Lakehead University in Thunder Bay, Canada.

Topics of interest include but not limited to the following:

Track - 1: Artificial Intelligence and Applications

- Deep Learning Architectures for Vision and Language
- Generative Models (GANs, VAEs, Diffusion)
- Reinforcement Learning and Intelligent Control
- Natural Language Processing and Large Language Models
- Computer Vision and Image Understanding
- AI for Robotics and Autonomous Systems
- Explainable and Trustworthy AI
- Federated and Edge AI Systems
- Optimization for Machine Learning (Convex and Nonconvex)
- Probabilistic Modeling and Bayesian Inference
- Graph Neural Networks and Representation Learning
- Time-Series Forecasting and Sequential Modeling
- Multi-Objective and Evolutionary Optimization
- AI for Healthcare Imaging and Diagnostics
- Data Augmentation and Synthetic Data Generation

Track - 2: Mathematical Modeling, Optimization, and Intelligent Systems

- Mathematical Modeling of Complex and Adaptive Systems
- Optimization Theory and Algorithms for Large-Scale Systems
- Intelligent Control and Decision-Making Systems
- Stochastic Modeling and Uncertainty Quantification
- Simulation-Based Modeling and Digital Twins
- Hybrid Mathematical–Intelligent Frameworks for Engineering and Health Applications
- Dynamical Systems Theory and Nonlinear System Analysis
- Multi-Objective and Evolutionary Optimization Techniques
- Optimal Control and Reinforcement-Inspired Control Systems
- Robust and Resilient System Design and Analysis
- Graph-Theoretic Models and Network Optimization
- Mathematical Foundations of Intelligent Cyber-Physical Systems
- Model-Based Systems Engineering and Validation