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Workshop on Engineering Applications 2026 Artificial Intelligence, Optimization and Simulation

The Engineering Faculties of the Universidad Distrital Francisco José de Caldas, Fundación Universitaria del Área Andina, Universidad Tecnológica de Pereira and Universidad Externado de Colombia are glad to invite researchers, students, and practitioners from any engineering field to participate into one of its tracks of the conference which will be held in Pereira – Colombia

Important Dates

Submission deadline:

Paper: April 11, 2026

Abstract: July 25, 2026

Notification of acceptance:

Paper: May 9, 2026

Abstract: August 22, 2026

Tutorial proposal deadline:

August 8, 2026

Final version deadline:

Paper: June 13, 2026

Abstract: September 19, 2026

Conference dates: Oct. 21-23, 2026

Location and Venue:

Fundación Universitaria del Área Andina –
Universidad Tecnológica de Pereira
Pereira - CO

CALL FOR PAPERS

Track 1: Artificial Intelligence and XAI

Artificial Intelligence: Theory and applications
Computational Intelligence:
Interval-Fuzzy-Rough sets
Genetic/Evolutionary algorithms
Neural Networks
Explainable AI (XAI)
Metaheuristics and search methods

Control (theory and applications)
Intelligent Computing
Machine Learning
Data Science and Analysis
Applications and methodologies
Real-world implementations
Uncertainty theory/analysis
Industry X (4.0 and beyond)

Track 2: Optimization

Mathematical/formal methods
Computational methods/algorithms
Real/combinatorial optimization
Optimization under uncertainty
Computational implementations
Metaheuristics and algorithms
Operations Research
Optimization and AI

Modeling and applications:
Logistics/Production/Health
planning,
Inventory, TSP/VRP,
Food safety
Supply chain networks, methods and
models
Optimization and health/medicine

Track 3: Simulation systems

Simulation methods/models
Analysis Methodologies
Agents-based models/simulation
Transdisciplinary methodologies
Uncertainty Modeling
Simulation and health/medicine

Discrete events simulation
Continuous simulation
System Dynamics
Hybrid Simulation
Simulation Optimization

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Doctoral Symposium
Engineering Applications (all fields and topics)
Computer/computational Sciences
Control (theory and applications)
Management Sciences
Electrical and Electronic engineering
Cadastral, earth sciences
Software design, development and audit
Education and knowledge
Networks, grids and information systems

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- Track 1: Artificial Intelligence – IEEE Universidad Distrital:** Organized by IEEE Universidad Distrital and ALGOS Universidad Nacional de Colombia. email: jcfigueroag@udistrital.edu.co – gjhernandezp@unal.edu.co
- Track 2: Optimization:** Organized by Universidad Distrital. email: cafrancof@udistrital.edu.co
- Track 3: Simulation Systems:** Organized by ARCOSES Universidad Distrital. email: lavarez@udistrital.edu.co
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