



# @ Montreal

Automation • Instrumentation • Control  
Symposium 2018

Montreal, Québec, Canada

Training: 15 October

Conference: 16–17 October

Submit your abstract at  
[www.xcdsystem.com/isaat](http://www.xcdsystem.com/isaat)

Abstract Deadline is  
1 June 2018.

# CALL FOR PAPERS



Submit  
Abstracts  
by 1 June

**ISA@Montreal 2018**, a new, multi-dimensional automation track experience, is sponsored jointly by the ISA Food and Pharmaceuticals, Automatic Controls and Robotics, Construction and Design, and Process Measurement and Control Divisions. The Symposium will bring together an array of automation industry professionals from various disciplines to present on best practices, emerging technologies, developments, and applications. Don't miss your opportunity to share new and innovative ideas for the future of automation.

## General Subject Areas of Interest

### Food and Pharmaceutical

- Data Integrity
- Serialization/Track and Trace
- OEE, PAT, GAMP
- Paperless Automation
- Continuous Manufacturing
- Manufacturing Regulations
- Single-Use/Plug and Play
- Validation of Automation Systems in Pharmaceutical Industries

### Construction and Design

- ISA and Other-Related Industry Standards
- Design Optimization—Trending Technologies in Automation
- Design Optimization—Software Tools
- Constructability Within Design
- Replacement of Legacy Systems
- Pre-commissioning/Commissioning
- Project Management
- Project Economics

### Instrumentation, Communications, and Test Measurement

- Sensors
- Transducers
- Wireless, Electromagnetic, and RFID
- Remote Sensing
- Environmental Monitoring
- Laser and Electro-Optics
- Control Systems Maintenance
- Metrology
- Telemetry
- DSC, SCADA Systems
- Platform Testing
- Test Facilities

### Industrial Control and Modern Heuristics in Automation

- Process Modeling, Artificial Neural Networks, Multivariable Statistical Control
- Model-Predictive Control, Adaptive Control, Fuzzy Logic Control
- Advance Techniques for Control and Monitoring
- Computer and Machine Vision Technology for Factory Automation
- Supervisory and Intelligent Control
- Computer Implementation of Control Systems
- Intelligent Systems and Control, Modern Heuristics, and Data Mining in Automation and Industrial Applications
- Hardware Optimization Based on Computational Intelligence Techniques

### Manufacturing Systems Automation

- Intelligent Control
- Formal Modeling and Analysis
- Discrete and Continuous Industrial Automation Systems
- Manufacturing Execution Systems and Enterprise Integration
- Standardization Best Practices and Recent Developments

### Robotics and Intelligent Systems

- Navigation, Control and Manipulation for Intelligent Robots and Systems
- Cognitive, Cooperative and Collaborative Robotics
- Perception, Environment Description and Map Building
- Human-Robot Interaction in Industry
- Intelligent Embedded Systems
- Multi-Agent Systems and Distributed Robotics Architectures
- Sustainable Robotics and Applications
- Robot Learning, Programming and Manipulation Techniques
- Network/Industrial Robotics—Best Practices
- Advanced Sensors and Vision Systems
- Advanced Applications of Autonomous Robots

### Hot Topics and Critical Industrial Operations

- Industrial Cybersecurity
- Process Safety/SIL/Risk Analysis
- Sustainable Processing
- Alarm Management
- Industrial Internet of Things (IIoT)
- Usage of Cloud for Automation
- Process Measurement, Control & Optimization
- Environmental Practices



## SUBMISSION GUIDELINES:

- Abstracts should be **200 words or less** and describe a non-commercial presentation
- You will be **notified via email** that your abstract has been reviewed and accepted or rejected by our technical committee
- If your abstract is accepted and you agree to submit a presentation for the conference proceedings, you are **agreeing to register and present at ISA@Montreal Symposium 2018**. You are also agreeing to pay a discounted registration fee in order to participate and present
- All papers must be **submitted in electronic format (MS Word)** suitable for publication in the proceedings; and **slide presentation materials must be provided in electronic format (MS PowerPoint)** prior to the symposium for review and approval
- A **publication release form** is also required for all approved papers

## IMPORTANT DEADLINES:

- Abstracts—**1 June**
- Acceptance—**1 July**
- Draft Papers/Presentations—**1 August**
- Reviewer's Comments to Authors—**1 September**
- Final Papers/Presentations—**15 September**
- Rights and Responsibilities Form—**15 September**
- Speaker Registration—**15 September**