

# IFIP 20th International Conference on Product Lifecycle Management 9-12 July 2023, Montreal, Canada



You are cordially invited to participate in the 20th International Conference on Product Lifecycle Management, **PLM23**, to take place **July 9-12 2023** in **Montreal, Canada**.

The PLM International Conference connects various representatives of its community (PLM, BIM) who contribute to its state-of-the-art research questions investigation. Among them are issues of design methodologies across the whole product lifecycle of products and buildings, their supporting digital tools, and integration challenges in the context of cyber-physical systems.

PLM23 will bring together researchers, developers, and users of PLM so as to share recent developments, shape the future of this field and advance the science and practice of enterprise systems development.

## Important dates

### Abstract submission:

December 15th, 2022

### Full paper Submission Deadline:

January 31st, 2023

### Acceptance Notification:

March 31st, 2023

### Doctoral Workshop:

July 9th, 2023

### Conference Dates:

July 10th-12th, 2023

## Main Topics

### DATA MANAGEMENT & IT

- Data management software (PDM, PLM, ERP, MES, CRM...)
- Product diversity management
- Configuration management
- Product structure / xBOM
- Change management
- Data exchange standards
- Information retrieval
- Blockchain
- Cybersecurity
- Internet of things (IoT, IIoT)
- Infrastructure (SaaS, cloud...)

### DESIGN

- Collaborative design
- Computer-aided x (CAD, CAE, CAM...)
- Model-based design
- Organisational and design processes
- Knowledge-based engineering
- Decision-making rationale and support
- Systems engineering
- Design for X
- Open design
- Agility

### MANUFACTURING

- Digitalisation in production systems
- Smart manufacturing
- Supply chain management
- Orchestration of production systems
- Lean manufacturing
- Reconfigurable production systems
- Additive manufacturing
- Operations management

### MODELLING & SIMULATION

- Maturity models
- Digital twin
- Business process modelling
- Product models
- Knowledge modelling
- Interoperability
- Model based definition
- Model based systems engineering
- Engineering design models
- Ontologies
- Building information modelling
- Simulation (physics-based / data-driven)
- Tangible interfaces
- (Immersive) Visual analytics

### SUSTAINABILITY

- Life cycle assessment
- Circular economy
- Eco-design
- Low carbon manufacturing
- Sustainable business models
- Green manufacturing
- Sustainable supply chain management
- Environmental impact
- Life cycle engineering
- Societally-conscious production systems

### HUMAN in INDUSTRY 4.0/5.0

- Human-machine interaction
- Human-systems integration
- Human-centric production systems
- Human-robot collaboration
- Human-centered design
- Human-In-the-Loop simulation

### EDUCATION & MANAGEMENT

- Education for industry 4.0/5.0
- Organizational and cultural change
- Ethics in industry 4.0/5.0