

4 – 7 May 2026 · Lyon



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**Call for Paper for  
7th European Conference on  
Process Analytics and Control Technology (EuroPACT)**

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EuroPACT 2026 focuses on innovation across three core pillars, with special emphasis on Integrated AI and PACT for Process Intensification toward sustainable solutions. We invite submissions that advance the field of process analytics and control technology, preferably within the following categories and topics.

**Submission Categories & Topics**

**Pillar 1: Process Analytics for Value Creation in Real-World Applications**

We seek contributions demonstrating practical implementation and value creation through process analytics:

**Energy & Sustainability Applications:**

- **New Energy Systems:** PAT applications in renewable energy production, energy storage, and alternative fuel processing
- **Carbon Capture Technologies:** Real-time monitoring and control of CO<sub>2</sub> capture, utilization, and storage processes
- **Broad Application of Sustainable Manufacturing:** Process analytics enabling circular economy, waste reduction, and resource efficiency across industries

**Industry-Specific Applications:**

- Pharmaceutical manufacturing and quality assurance
- Food & feed processing optimization
- (Petro)chemical process monitoring
- Recycling and Circular Economy: Advanced analytics for material recovery and waste stream processing

**Pillar 2: From Data to Process Insight, Automation, Control and Optimization**

Contributions focusing on data-driven process understanding and intelligent automation:

**Advanced Chemometrics & AI:**

- **New Topics in Chemometrics:** Machine learning algorithms (neural networks, deep learning) for spectroscopic data analysis
- **Getting Insights from Data via AI:** Artificial intelligence applications for process understanding, predictive maintenance, and quality prediction
- **Algorithm Development:** Novel computational approaches for process data interpretation and decision-making

**Process Intensification & Transformation:**

- **Process Intensification via PAT:** Analytics-enabled transition from batch to continuous processing

- **Batch-to-Continuous Conversion:** Real-time monitoring strategies for process transformation
- **Integrated Control Systems:** Advanced process control using multi-sensor data fusion

#### **Solid Flow & Material Handling:**

- **Solid Flow Analytics:** Including hyperspectral imaging (HSI) for recycling applications
- **Data Handling for Particulate Systems:** Advanced analytics for powder, granular, and solid material processing

### **Pillar 3: Novel PAT and Instrumental Technologies**

Innovations in analytical instrumentation and measurement technologies:

#### **Next-Generation PAT:**

- **Faster, Smaller, Cheaper, More Accurate PAT:** Breakthrough technologies in process analytical instrumentation
- **Miniaturized Sensors:** Portable and in-line analytical devices
- **Multi-modal Sensing:** Integration of multiple analytical techniques
- **Real-time Analytics:** Ultra-fast measurement and data processing technologies

#### **Emerging Technologies:**

- Advanced spectroscopic techniques
- Novel sensor technologies and smart sensors
- Wireless and IoT-enabled process monitoring
- Digital twins and virtual sensors

### **Special Focus Areas**

#### **Integrated AI**

Submissions demonstrating the integration of artificial intelligence throughout the process analytics value chain, from sensor data acquisition to automated decision-making.

#### **PACT for Process Intensification**

Applications of process analytics and control technology enabling sustainable process intensification, including energy efficiency, waste reduction, and environmental impact minimization.

**EuroPACT 2026** provides a unique meeting and a discussion forum for researchers, suppliers and users of process analytics from both academia and industry. The conference program will include plenary and invited lectures and plenty of opportunity for discussion with colleagues during poster sessions, speed dating and discussion rounds.

**The online paper submission will close on 12<sup>th</sup> January 2026.**

**Submission and further information is available at the conference website at [dechema.de/europact2026](https://dechema.de/europact2026)**

#### **Venue**

Lyon Convention Centre  
50 Quai Charles de Gaulle, Lyon  
France  
[gl-lyonevents.com/en/centre-de-congres](https://gl-lyonevents.com/en/centre-de-congres)

#### **Organiser and Contact**



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