Important Date

September 10, 2022: Draft paper submission
September 30, 2022: Acceptance notification
October 15, 2022: Final manuscript submission

Registration Rate

	Early (15/10)	Normal
Regular:	300 €	350 €
Student:	200 €	250 €

Organizing Committee

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Sponsoring Technical Committees

TC 6.4. Fault Detection,Supervision&Safety of Techn.Processes-SAFEPROCESS

Springer

International Journal of applied mathematics and computer science

The 16th European Workshop on Advanced Control and Diagnosis (ACD 2022) will be held Wednesday to Friday, November 16-18, 2022, at Nancy, France organized by European Advanced Intelligent Control and Diagnosis working group with the support of Centre of Research in Automatic Control (CRAN) and Ecole Polytechnique de l'Universite de Lorraine (Polytech Nancy). The conference is technically co-sponsored by IFAC (the International Federation of Automatic Control) TC 6.4. Fault Detection,Supervision&Safety of Techn.Processes-SAFEPROCESS of which SAGIP (http://www.sagip.org/) is the National Member Organization for France.

The 16th edition of the workshop will feature contributed and invited papers, as well as plenary lectures delivered by high-profile scientists and experts in advanced control, diagnosis, and health monitoring of systems.
The contributions, either with a more theoretical nature or with a focus on applications, will span a variety of up-to-date topics in the field of systems and control. The main workshop topics include, but are not limited to:

advanced fault-tolerant control, control reconfiguration, health monitoring techniques, robust control, adaptive control, model-based diagnosis of linear, nonlinear and hybrid systems, data-driven diagnosis methods, process supervision, diagnosis and control of discrete-event systems, maintenance and repair strategies, statistical methods for fault diagnosis, reliability and safety, signal and image processing, condition monitoring, maintenance engineering, prognosis and health management, artificial intelligence methods for control and diagnosis.

There will be a special focus on advanced fault tolerant control strategies, health-aware control design strategies, advanced control approaches, deep learning based methods for control and diagnosis, reinforcement learning based approaches for advanced control, diagnosis & prognosis techniques applied to industrial problems, Industry 4.0 as well as instrumentation and sensors.

The main fields of applications are distributed systems, industrial processes, intelligent sensors and actuators, transportation systems, renewable energy systems, unmanned autonomous/aerial vehicles etc.

Further, the scope of the workshop has been broadened with respect to the previous editions to include challenging issues arising in the areas of cyber-physical production systems, industrial internet of things, systems and control for sustainability and structural methods for complex systems.

Paper Submission: Electronic submission will be handled through PaperCept - details are available on the conference web site All submissions must be written in English and prepared according to a specific format under copyright conditions. Full contributions must be submitted in PDF format that complies with these requirements. The paper format must follow classical paper submission rules. Submitted papers should be classified as a **Full contribution** Participants are able to organize **Invited sessions**.

Review Process: All submitted papers will undergo a peer review process following classical rules and standards (minimum 3 independent reviews) and they will be checked using the *iThenticate Document Viewer Guide* for originality. Authors will be notified of results at the latest by September 30 2022. Accepted papers must be uploaded electronically no later than October 15, 2022. Authors are encouraged to accompany their presentations with multimedia material, which will be included in the Conference Digital Proceedings.

Paper Presentation: The contributions will be grouped in Technical Sessions and will be allocated 20 minutes for oral presentation, which includes questions from the audience.

Publication: All accepted and presented papers will appear online in a volume titled *Recent Developments in Model-based and Data-driven Methods for Advanced Control and Diagnosis* by **Springer in the Studies in Systems**, Decision and Control (Editors: Prof. D. Theilliol, Prof. J. Korbicz and Prof. J. Kacprzyk).

Based on extended version, selected papers will be recommended for journal special issue/section: **International Journal of Applied Mathematics and Computer Science.**

Young Author Award: A Young Author Award will be awarded to an author for the best paper and presentation at the conference.

For any additional information about **ACD 2022**, send an email to acd2022-contact@univ-lorraine.fr

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