

Invited Speakers

Prof. Richard Braatz, Massachusetts Institute of Technology, USA.

Prof. Keith Worden, University of Sheffield, UK.

Prof. Alessandro Giua, University of Cagliari, IT and Aix-Marseille University, FR.

Prof. Daniel Hissel, Université de Franche-Comté, FR.

Prof. D. L. Margolis, Univ. of California Davis, USA.

Michel Comes, Airbus RT Chief Engineer, Toulouse, FR.

Awards

Paul M. Frank Award: This award, sponsored by University of Duisburg-Essen, will be given to honor the best theoretical paper.

ABB Award: The automation company ABB offers an award for the best application /case study paper.

Separate committees for the two awards will evaluate all entries, and the winners will be announced during the symposium. The two awards consist of a certificate and an amount of 1000 euros.

Important dates

Invited session proposals:	Oct. 10, 2014
Submission of draft papers:	Nov. 1, 2014
Notification of acceptance:	March 1, 2015
Final paper submission:	May 1, 2015
Early registration:	May 1, 2015

Symposium fees

Early full registration fee:	550€
Early student registration fee:	350€
Late registration fee (after May 1, 2015):	800€

Each paper must be covered by one full registration. One full registration may cover up to 3 papers co-authored by the registered participant.

A registration fee includes conference attendance, welcome event, preprints, coffee breaks, lunches, and banquet.

Information

Prof. Vincent Cocquempot, Lille1 University, LAGIS
Bât P2, Bd Paul Langevin, 59655 Villeneuve d'Ascq
Tel : +33 (0)3 59 63 21 15
E-Mail: contact@safeprocess2015.fr

Welcome to FRANCE in September 2015 !



SAFEPROCESS 2015 is sponsored by the International Federation of Automatic Control Technical Committee on Fault Detection, Supervision and Safety for Technical Processes (TC 6.4), and co-sponsored by the following IFAC TCs:

- Modelling, Identification and Signal Processing (TC 1.1)
- Discrete Event and Hybrid Systems (TC 1.3)
- Mechatronic Systems (TC 4.2)
- Chemical Process Control (TC 6.1)
- Mining, Mineral and Metal Processing (TC 6.2)
- Power Plants and Power Systems (TC 6.3)
- Marine Systems (TC 7.2)
- Aerospace (TC 7.3)
- Transportation Systems (TC 7.4)
- Intelligent Autonomous Vehicles (TC 7.5)



Thanks to our sponsors!



9th IFAC Symposium on Fault Detection, Supervision and Safety for Technical Processes



ENSAM Paris

organized by
GDR MACS S3 WG



<http://safeprocess2015.fr/>



Scope

SAFEPROCESS is a major international gathering of leading experts in academia and industry. It aims at strengthening contacts between academia and industry to build up new networks and cultivate existing relations. High-level speakers will present the global spectrum of fault diagnosis, process supervision and safety monitoring, state-of-the-art applications and emerging research directions. The symposium is also meant as a forum for young scientists from all over the world, with the opportunity to introduce their research ambitions and work to an audience of international experts. Fault diagnosis and fault-tolerant control build a major area of research at the intersection of systems and control engineering, artificial intelligence, applied mathematics and statistics, and application fields like chemical, electrical, mechanical, aerospace engineering and transportation systems. IFAC has recognized the significance of this area by launching a triennial symposium series dedicated to this subject. SAFEPROCESS 2015 is continuing the successful series of symposia. In SAFEPROCESS 2015 edition, a **special focus will be made on industrial applications**. Special sessions, plenary lectures will highlight industrial-academic collaborative projects.

Topics

- Model-based diagnosis of linear, nonlinear and hybrid systems
- Data-driven diagnosis methods
- Fault-tolerant control, control reconfiguration
- Process supervision
- Active fault diagnosis methods
- Condition monitoring, maintenance engineering
- Prognosis
- Diagnosis and fault-tolerant control of discrete-event systems
- Statistical methods for fault diagnosis
- Statistical methods for reliability and safety
- Interval methods, numerical methods
- Neural and fuzzy methods
- Structural methods of fault diagnosis and fault-tolerant control
- Artificial Intelligence methods for fault diagnosis
- Safety-critical systems
- Structural Health Monitoring

Application areas

- Aeronautics and aerospace systems
- Transportation, traffic and automotive applications
- Electrical, mechanical and mechatronic systems
- Mining, minerals, metal applications
- Networked systems
- Process engineering applications
- Production systems
- Power systems and networks
- Robotics
- Chemical systems
- Biosystems

Author information, copyright

Papers and all other proposals must be submitted electronically using the IFAC PaperPlaza Conference Manuscript Management System:

www.ifac.papercept.net.

All publication material submitted for presentation at an IFAC-sponsored meeting (Congress, Symposium, Conference, Workshop) must be original and hence cannot be already published, nor can it be under review elsewhere. The authors take responsibility for the material that has been submitted. IFAC-sponsored conferences will abide by the highest standard of ethical behavior in the review process as explained on the Elsevier webpage (<http://www.elsevier.com/journal-authors/author-rights-and-responsibilities>), but see also the Vancouver protocol, and author information (<http://labs.elsevier.com/blog/what-makes-an-author-authorship-contributorship-and-micro-attribution>) and the authors will abide by the IFAC publication ethics guidelines (<http://www.ifac-control.org/events/organizers-guide/PublicationEthicsGuidelines.pdf/view>).

Accepted papers that have been presented at an IFAC meeting will be published in the proceedings of the event using the open-access IFAC-PapersOnLine (<http://www.ifac-papersonline.net/>). To this end, the author(s) must confer the copyright to IFAC when they submit the final version of the paper through the paper submission process. See also <http://www.ifac-papersonline.net/static/copyright.html> for personal permission rights to reproduce the published paper on a personal or institutional www-site.

The IPC may recommend the authors to consider a derivative publication of the presented paper in one of the IFAC affiliated Journals.

International Program Committee

Prof. Steven DING: Chair
Prof. Michel KINNAERT and Didier MAQUIN: Co-chairs
Dr Philippe GOUPIL: Vice-chair from industry

Michèle Basseville (FR)	Jan Maciejowski (UK)
Gautam Biswas (USA)	Didier Maquin (FR)
Mogens Blanke (DK)	Hans Henrik Niemann (DK)
József Bokor (HU)	Belkacem O. Bouamama (FR)
Richard Braatz (USA)	Yiannis Papadopoulos (UK)
Marco Campi (IT)	Thomas Parisini (IT)
Vincent Cocquempot (FR)	Ron Patton (UK)
Steven Ding (DE)	Vicenç Puig (ES)
Roger Dixon (UK)	Joe Qin (USA)
Tony Dodd (UK)	Joseba Quevedo (ES)
Andras Edelmayer (HU)	José Sá da Costa (PT)
Christopher Edwards (UK)	Dominique Sauter (FR)
Istvan Erlich (DE)	Sirish L. Shah (CA)
Erik Frisk (SE)	Silvio Simani (IT)
Alessandro Giua (IT)	Todor Stoilov (BG)
Philippe Goupil (FR)	Jakob Stoustrup (DK)
Rafael Gouriveau (FR)	Takai Shigemasa (JP)
Antoine Grall (FR)	Didier Theilliol (FR)
Katalin M. Hangos (HU)	Louise Travé-Massuyès (FR)
Alexander Horch (DE)	Andras Varga (DE)
Bin Jiang (CN)	Cristina Verde (MX)
Jin Jiang (CA)	Eva Wu (USA)
Michel Kinnaert (BE)	Janan Zaytoon (FR)
Józef Korbicz (PL)	Ping Zhang (DE)
Jan M. Koscielny (PL)	Qinghua Zhang (FR)
Jan Lunze (DE)	Youmin Zhang (CA)
	Dong-Hua Zhou (CN)

National Organizing Committee

Prof. Vincent COCQUEMPOT: Chair
Dr Marco PENGGOV: Vice-chair from industry
Dr Nazih MECBAL: Local organization chair

Abdel Aitouche	Anne Barros
Mireille Bayart	Christophe Bérenguer
Christophe Combastel	Mohammed Chadli
David Henry	Gahleb Hoblos
Frédéric Kratz	Didier Maquin
Noureddine Manamanni	Nazih Mechbal
Kamal Medjaher	Mustapha Ouladsine
Tarek Raissi	Audine Subias
Didier Theilliol	Janan Zaytoon
Qinghua Zhang	