

# 29<sup>th</sup> International Workshop on Principles of Diagnosis

27-30 August 2018, Warsaw, Poland



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WUT

Warsaw University  
of Technology



Université  
Fédérale  
Toulouse  
Midi-Pyrénées



# DX'18 PROGRAM



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## International Program Committee

Rui Abreu	Xerox PARC, USA
Carlos Alonso González	University of Valladolid, Spain
Michał Bartyś	Warsaw University of Technology, Poland
Gautam Biswas	Vanderbilt University, USA
Elodie Chanthery	LAAS-CNRS, University of Toulouse, INSA, France
Philippe Dague	LRI, France
Johan de Kleer	Xerox PARC, USA
Alexander Feldman	Xerox PARC, USA
Gerhard Friedrich	Klagenfurt University, Austria
Eric Frisk	Linköping University, Sweden
Alban Grastien	Data61 and the ANU, Australia
Michael Hofbauer	Joanneum Research, Austria
Meir Kalech	Ben-Gurion University of the Negev, Israel
Roxane Koitz-Hristov	Graz University of Technology, Austria
Jan Maciej Kościelny	Warsaw University of Technology, Poland
Mattias Krysander	Linköping University, Sweden
Anastassia Küstenmacher	Hochschule Bonn-Rhein-Sieg, Germany
Wolfgang Mayer	University of South Australia, Australia
Oliver Niggemann	Fraunhofer IOSB-INA, Germany
Mattias Nyberg	Linköping University, Sweden
Krzysztof Patan	University of Zielona Góra, Poland
Yannick Pencolé	LAAS-CNRS, University of Toulouse, France
Gustavo Perez	Pontifical Catholic University of Peru, Peru
Ingo Pill	Graz University of Technology, Austria
Paul G. Plöger	Hochschule Bonn-Rhein-Sieg, Germany
Gregory Provan	University College Cork, Ireland
Xavier Pucel	ONERA CERT, France
Nacim Ramdani	University of d'Orléans, France
Kornel Rostek	Warsaw University of Technology, Poland
Martin Sachenbacher	LION Smart GmbH, Germany
Ramon Sarrate	Polytechnic University of Catalonia, Spain
Konstantin Schekotihin	Klagenfurt University, Austria
Neal Snooke	Aberystwyth University, UK
Gerald Steinbauer	Graz University of Technology, Austria
Peter Struss	Tech. University of Munich, Germany
Audine Subias	LAAS-CNRS, University of Toulouse, INSA, France
Gianluca Torta	University of Torino, Italy
Marcin Witczak	University of Zielona Góra, Poland
Franz Wotawa	Graz University of Technology, Austria
Marina Zanella	Università degli Studi di Brescia, Italy

- 51 attendees
- 26 DX-Safeprocess Joint attendees

## Additional Reviewers

Patrick Rodler	Klagenfurt University, Austria
Yousef Mahmoud	HBRS University of Applied Science, Germany
Ahmad Drak	HBRS University of Applied Science, Germany
Alex Mitrevski	HBRS University of Applied Science, Germany

## Technical and Administrative Support

Kinga Wloch	Lubuskie Scientific Society, Poland
Paweł Lipiński	Warsaw University of Technology, Poland
Michał Syfert	Warsaw University of Technology, Poland
Kornel Rostek	Warsaw University of Technology, Poland
Jakub Możaryn	Warsaw University of Technology, Poland
Paweł Wnuk	Warsaw University of Technology, Poland
Isabelle Lefebvre	LAAS-CNRS, University of Toulouse, France
Dominique Daurat	LAAS-CNRS, University of Toulouse, France
Catherine Guerrin	LAAS-CNRS, University of Toulouse, France
Renaud Pons	LAAS-CNRS, University of Toulouse, France
Audine Subias	LAAS-CNRS, University of Toulouse, France

- Technical program
  - 2 invited talks
  - technical papers from 17 countries
  - 25 oral presentations
  - 12 posters
- Social program
  - Tuesday afternoon
  - Wednesday evening

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## Co-location with SAFEPROCESS'18



10th IFAC Symposium on  
Fault Detection, Supervision  
and Safety for Technical Processes, SAFEPROCESS 2018

**IFAC**  
INTERNATIONAL FEDERATION  
OF AUTOMATIC CONTROL

**safeprocess 18**  
29-31 August 2018  
Warsaw, Poland

WELCOME SCOPE COMMITTEES KEY SPEAKERS CFP FOR AUTHORS REGISTRATION AWARDS PROGRAM DX'18 WORKSHOP PRACTICAL INFO SPONSORS CONTACT

### Welcome

It is our pleasure to invite you to the 10th IFAC Symposium on *Fault Detection, Supervision and Safety for Technical Processes, SAFEPROCESS 2018*, to be held in Warsaw, Poland, on 29-31 August 2018.



#### Important dates

Proposals for invited sessions: 23 October 2017  
Submission of draft papers: 6 November 2017  
Notification of acceptance: 12 March 2018  
Submission of final papers: 14 May 2018  
Early registration: 14 May 2018

[www.safeprocess18.uz.zgora.pl](http://www.safeprocess18.uz.zgora.pl)

- Wednesday is a joint day
  - all Safeprocess technical sessions are open to DX attendees
  - the DX session is open to Safeprocess attendees
- Safeprocess Welcome Reception on Tuesday 18h-20h
  - All DX attendees are invited
  - Wednesday evening

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# DX'18 TECHNICAL PROGRAM



	Mon. 27	Tue. 28	Wed. 29	Thu. 30
08:00			DX-SAFEPROCESS JOINT DAY All sessions are open	
09:00		Invited talk : Architecturing for Diagnosis at BigData Scale by Nathalie Barbosa Roa (Continental Automotive France SAS)	Safeprocess Opening Ceremony Safeprocess Plenary talk by Gaston Ribeaux	Invited talk : The role of fault diagnosis in functional safety by Michal Bartyś (Warsaw University of Technology)
10:00		Data based diagnosis	Tea & Coffee break Models and processes for diagnosis	Duality diagnosis design / Sequential diagnosis
11:00		Tea & Coffee Break		Tea & Coffee break
12:00		Optimal test and sensor selection		Data based anomaly detection
13:00	Lunch	Lunch	Joint DX-Safeprocess Lunch	DX'18 Business meeting and closing
14:00	DX'18 Opening	Social Program	Safeprocess Sava Plenary	
15:00	Formal theories for diagnosis		Tea & Coffee break Learning models and enhancing diagnosis	
16:00	Tea & Coffee break		Poster session	
17:00	Event based diagnosis			
18:00		Safeprocess Welcome Reception For all DX participants		
19:00			Small tour & DX'18 Dinner	
20:00				
21:00				
22:00				

- 2 DX invited talks
- 1 Safeprocess plenary talk
- 2 Safeprocess semi-plenary talks
- 8 technical sessions: 2 every day
- 15 Safeprocess technical sessions on Wednesday
- 1 poster session

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## DX'18 SOCIAL PROGRAM: TUESDAY



Please find your name on the table that will be circulated and mark your preferred activity before the end of today's sessions !



- 2 activities to choose from (14h-18h)
  - **Invisible exhibition**: a unique interactive journey into the invisible world, where you can try out, how to cope in everyday situations without the help of sight – only by the sense of hearing, smell, balance... Exercise your senses! Trust us in the dark!
  - **Escape room**: locked in a room with your team, you will have an hour to solve puzzles and escape !
- Safeprocess Welcome Reception (18h-20h)

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## DX'18 SOCIAL PROGRAM: TUESDAY



### Escape Room:

- Quest Hunt
- 5 mns walk from venue
- Wilcza 66/68
- Two groups: 14:00 and 15:30
- Go by yourself: we meet there
- Arrive 15 minutes before the start of the game

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## DX'18 SOCIAL PROGRAM: TUESDAY



### Invisible Exhibition:

- about 20 mins walk from venue
- Al. Jerozolimskie 123A
- Three groups: 14:45, 15:00 and 15:15
- Arrive 15 minutes before the start of the group
- We meet at University building main door: 14.00
- Wear comfortable shoes!

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# DX'18 SOCIAL PROGRAM: TUESDAY

## Safeprocess Welcome Reception 18-20



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## DX'18 SOCIAL PROGRAM: WEDNESDAY EVENING



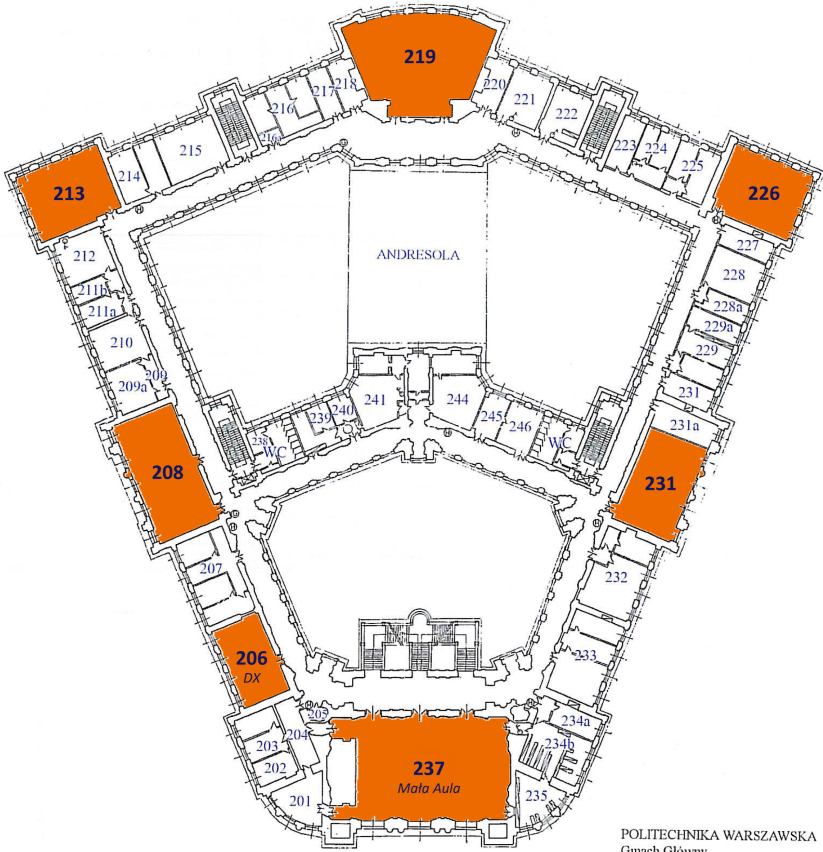
- Small tour of an historical garden of Warsaw (18:30h-19:30h)
- 19:30 DX'18 dinner in a fancy restaurant
- Górnośląska 24
- We meet at University building main door: 18:40

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**WELCOME**  
**and have a good**  
**time !!**

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