

## 16 June 2016

9.00 Welcome reception

9.30 Plenary lecture 1

Chair Marcin Witczak

*Fault tolerant control for distributed systems: theory and applications*

Christophe Aubrun

10.15 Session 1

Chair Krzysztof Patan

*Design of predictive fault tolerant control by the means of state space neural networks*

Andrzej Czajkowski

*Robust fault tolerant control for drones*

Piotr Witczak

*Robust adaptive fault estimation for nonlinear system - a quadratic boundedness approach*

Mariusz Buciakowski

11.15 Break

11.45 Plenary lecture 2 - Chair

Chair Józef Korbicz

*Classification of imbalanced data: studying data characteristics and improving performance of classifiers*

Jerzy Stefanowski

12.30 Session 2

Chair Wojciech Paszke

*An internet of things architectures for distributed embedded systems*

Kazimierz Krzywicki

*Detection and prediction of clinical and structural changes in the brain tissues*

Monika Ratajczak

*Maximum-likelihood circular object recognition*

Marcin Skobel

13.30 Break

13.45 Session 3

Chair Maciej Patan

*Design of robust iterative learning control schemes for systems with sector-bounded nonlinearities*

Marcin Boski

*Identification of dwelling house dynamics model using subspace methods*

Dominik Kujawa

*Analysis of EEG signals for the purpose of clinical diagnosis based on epileptic seizures*

Grzegorz Rutkowski

14.45 End of day 1

## 17 June 2016

9.30 Plenary lecture 1

Chair Paweł Majdzik

*Engineering and production of advanced electronics for HMI*

Lothar Seybold

#### 10.15 Session 4

Chair Krzysztof Gałkowski

*Fault detection in spatio-temporal systems using distributed configuration of sensor network*

Damian Kowalów

*Fault-tolerant control and diagnosis for LPV system with H-infinity virtual sensor*

Marcel Luzar

*Design of a process fault estimation with a quadratic boundedness approach*

Marcin Pazera

#### 11.15 Break

#### 11.45 Session 5

Chair Grzegorz Benysek

*Predicting the  $[UTC - UTC(AOS)]$  deviations for timescale realized on the basis of hydrogen maser*

Łukasz Sobolewski

*Water content in diesel fuel assessment using impedance spectroscopy*

Łukasz Macioszek

*Energy storage as a part of the power grid*

Bartosz Wańkowicz

*Peak power reduction using thermostatic device*

Szymon Wermiński

#### 13.05 Session 6

Chair Robert Smoleński

*Analysis and reduction summary electromagnetic interference generated by  $n$  identical DC/DC converters*

Danie Fechner

*Practical reachability test under process faults*

Michał de Rozprza-Faygel

*Design of an optimized PID controller using response surface methodology*

Mariusz Woźniak

#### 14.05 Closing ceremony