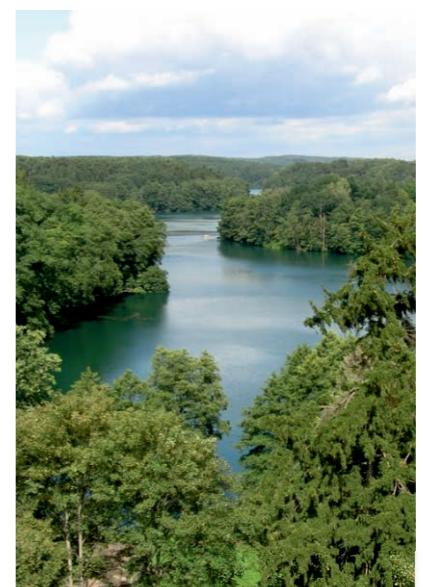


WEDNESDAY, September 11

09:00-09:40	Plenary session PS4 Chair: Andrzej ŚWIERNIAK <i>Computer-aided breast cancer diagnosis – Andrzej OBUCHOWICZ</i>	
09:50-11:50	Session S7a – Medical Diagnostics Chair: Andrzej OBUCHOWICZ	A
09:50-10:10	<i>Computer-aided diagnosis for breast tumor classification using microscopic images of fine needle biopsy – M. KOWAL</i>	
10:10-10:30	<i>An automatic method for cell membrane extraction in histopathology HER2 images – M. TABAKOV, S. ZAREBA</i>	
10:30-10:50	<i>Complex monitoring of the patient and ventricular assist device during heart assist procedure with Religa Heart TOTAL system – M. SYFERT, B. FAJDEK, P. WNUK, M. STACHURA</i>	
10:50-11:10	<i>Method of pattern detection in mammographic images – J. ŁAZAREK, P.S. SZCZEPAŃNIK, A. TOMCZYK</i>	
11:10-11:30	<i>The role and use of MicroRNA in cancer diagnosis – M. ŚWIERNIAK, A. ŚWIERNIAK</i>	
11:30-11:50	<i>Computer-aided on-line seizure detection using Stockwell transform – G. RUTKOWSKI, K. PATAN, P. LEŚNIAK</i>	
11:50-12:10	Coffee break	
12:10-13:50	Session S8a – Medical Diagnostics and Biometrics Chair: Krzysztof FUJAREWICZ	A
12:10-12:30	<i>Stateless Q-learning algorithm for training of radial basis function based neural networks in medical data classification – M. KUSY, R. ZAJDEL</i>	
12:30-12:50	<i>Diagnosis of obesity with bioimpedance method – M. CICHOCKA, J. TUTAJ</i>	
12:50-13:10	<i>Multimedia database techniques for medical diagnosis processes support – A. WOSIAK, L. BYCZKOWSKA-LIPIŃSKA</i>	
13:10-13:30	<i>Reliability and error probability for multimodal biometric system – M. SZCZEPAŃNIK, I. JÓZWIAK</i>	
13:30-13:50	<i>A simulation model for emergency evacuation time and low-cost improvements of a hospital facility using FlexSim Healthcare. A case study – J. MIKULIK, W. CEMPEL, S. KRACIK, D. DĄBAL</i>	
13:50-14:00	Closing ceremony	
14:00-14:45	Lunch	

PROGRAMME

11th International Conference on **DIAGNOSTICS OF PROCESSES AND SYSTEMS**



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PROGRAMME

SUNDAY, September 8
15:00-19:00 Registration
MONDAY, September 9

	Opening ceremony	A
08:45-09:00	Plenary session PS1 Chair: Józef KORBICZ	A
09:00-10:25	09:00-09:40 Safety, survivability and sliding modes – Christopher EDWARDS 09:45-10:25 Active fault detection and control – Miroslav ŠIMANDL	
10:25-10:45	Coffee break	
10:45-12:25	Session S1a – Fault Detection and Isolation I Chair: Horst SCHULTE Robust residual generator design for systems with distributed time delay – D. KROKAVEC, A. FILASOVA Study of fault isolability: Case of unknown model of the system with fault influence – J. KOŚCIELNY, M. SYFERT, K. ROSTEK Robust H-infinity sensor fault diagnosis with neural network – M. LUZAR, M. WITCZAK, C. AUBRUN Multiple fault isolation algorithm based on binary diagnostic matrix – M. BARTYŚ Takagi-Sugeno sliding mode observer with a weighted switching action and application to fault diagnosis for wind turbines – S. GEORG, H. SCHULTE	A
12:30-14:10	Session S2a – Fault Detection and Isolation II Chair: Abdel AITOUCHE Fault residual functions make use of linear quadratic control performances – D. KROKAVEC, A. FILASOVA, P. LISCINSKY Robust fault detection using zonotope-based GMHD neural network – M. MRUGALSKI Diagnosis of actuator parameter faults in wind turbines using a Takagi-Sugeno sliding mode observer – S. GEORG, H. SCHULTE Structural diagnostics of composite beams using optimally selected fractional B-spline wavelets – A. KATUNIN, P. PRZYSTÄŁKA The approximate location of imperfections in mixed domain using the spectral theory – M. BRZEK, W. MITKOWSKI	A
14:15-15:15	Lunch	
15:30-17:30	Session S3a – Applications I Chair: Krzysztof PATAN Human factors and functional safety analysis in designing the control rooms of industrial hazardous plants – K. KOSMOWSKI ADFIT – A tool for parameter estimation using adjoint sensitivity analysis – K. ŁAKOMIEC, K. FUJAREWICZ Prediction of quality properties for the continuous optimization of refinery crude distillation unit – I. LUKEĆ Micro milling machine – Chosen aspects of supervisory and diagnostic systems – B. BROEL-PLATER, K. JAROSZEWSKI, P. DWORAK Neural network simulator's application to reference performance determination of turbine blading in the heat-flow diagnostics – A. BUTTERWECK, J. GLUCH FDI/FTC applied to wind turbines – A review – J. CALADO, P. SILVA	A
17:30-17:50		
19:00-23:00	Gala dinner	

TUESDAY, September 10

		Plenary session PS2 Chair: Piotr KULCZYCKI	A
09:00-10:25	09:00-09:40 Diagnosis of discrete-event systems – Jan LUNZE 09:45-10:25 Bridging diagnosis from the control and AI perspectives – Louise TRAVÉ-MASSUYÉS		
10:25-10:45	Coffee break		
10:45-12:25	Session S4a – Fault Tolerant Control Chair: Christophe AUBRUN	A	Session S4b – Soft Computing Chair: Roman ŚMIERZCHALSKI
12:30-14:10	10:45-11:05 Fault tolerant control of systems with saturations – H. NIEMANN 11:05-11:25 Passive variable-structure fault-tolerant control for an electrical 4WD vehicle subject to input saturation – X. ZHANG, V. COCQUEMPOT 11:25-11:45 Efficient predictive fault-tolerant control for non-linear systems – M. WITCZAK, P. WITCZAK 11:45-12:05 Fault-tolerant control allocation using reliability measures for over-actuated system – F. BICKING, P. WEBER, D. THEILLIOL, C. AUBRUN 12:05-12:25 Robust fault-tolerant control for a multi-tank system – M. BUCIAKOWSKI, M. WITCZAK, M. LUZAR		Control reconfiguration for one class of Takagi-Sugeno fuzzy SISO systems – A. FILASOVA, D. KROKAVEC, V. SERBAK Selection pressure in the evolutionary path planning problem – Ł. KUCZKOWSKI, R. ŚMIERZCHALSKI Gender approach to multi-objective optimization of detection systems with pre-selection of criteria – Z. KOWALCZUK, T. BIAŁASZEWSKI Swarm intelligence algorithms for multi-level image thresholding – A. MARCINIAK, M. KOWAL, P. FILIPCZUK, J. KORBICZ Design of a fuzzy system performing data analysis for pressure equipment service life-span estimation – P. FRANZ, L. KOSZAŁKA, K. GĘGA
14:15-15:15	Lunch		
15:30-16:10	Plenary session PS3 Chair: Henrik NIEMANN		
16:15-17:50	Poster session S6a Chairs: Ireneusz JÓZWIAK, Krzysztof BARTECKI	B	Session S6b – Industrial Applications (in Polish) Chair: Marcin WITCZAK
19:00-23:00	Outdoor dinner		

PROGRAMME