

Day I (28.09.2017) Bldg. B-4

8:00 9:00 Registration of participants

9:00 10:00 **Opening of the conference (Speech: Prof. C. Madryas- Rector of Wrocław University of Science and Technology, and Invited Guests)**

10:00 10:30 Coffee break

Session 1a		Room 2.38	Chairman:
10:30	10:50	I. Rojek	Artificial neural networks as a means for making process control charts user friendly
10:50	11:10	W. Paszkowski	The use of neural network model in the assessment of annoyance of the industrial noise sources
11:10	11:30	V. Kutia	Water Consumption Prediction for City Pumping Station Using Neural Networks
11:30	11:50	A. Burduk	Assessment of the feasibility of a production plan with the use of an artificial neural network model

Session 1b		Room 2.41	Chairman:
10:30	10:50	E. Kosicka	Intelligent systems of forecasting the failure of machinery park and supporting fulfilment of orders of spare parts
10:50	11:10	A. Loska	SmartMaintenance - the concept of supporting the exploitation decision-making process in the selected technical network system
11:10	11:30	K. Antosz	An intelligent system supporting a forklifts maintenance process
11:30	11:50	D. Stadnicka	An intelligent system supporting a maintenance process of specialised medical equipment

11:50 12:20 Coffee break

Session 2a		Room 2.38	Chairman:
12:20	12:40	S. Klos	Using simulation method for intelligent maintenance management
12:40	13:00	J. Diakun	Modelling and recycling-oriented assessment of household appliances
13:00	13:20	J. Studziński	Modelling and forecasting the sludge bulking in biological reactors of wastewater treatment plants by means of data mining methods
13:20	13:40	M. Diering	Soft modelling-based methodology of raw material waste estimation

Session 2b		Room 2.41	Chairman:
12:20	12:40	A. Tubis	Process assessment of risks in the production company with the use of linguistic variables and the FMEA analysis
12:40	13:00	M. Zasadzień	A concept of an IT tool for supporting knowledge transfer among facility maintenance employees art of intelligent organizations pa
13:00	13:20	M. Wolf	Enabling Round-trip engineering between P&I Diagrams and Augmented Reality Work instructions in maintenance processes utilizing graph-based modelling
13:20	13:40	K. Stecuła	Use of intelligent informatics module for registration and assessment of causes of breaks in selected mining machines

13:40 14:40 Lunch

Session 3a		Room 2.38	Chairman:
14:40	15:00	A. Gwiazda	Multi-agent meta-model of a non-cooperative game in a Virtual Manufacturing network
15:00	15:20	Ł. Sobaszek	Predictive scheduling as a part of intelligent job scheduling system
15:20	15:40	J. Oleśków Szłapka	An optimization approach for scheduling and lot sizing problems in electromechanical industry using GA-based method
15:40	16:00	D. Górnicka	Optimization of production organization in a packaging company by ant colony algorithm

Session 3b		Room 2.41	Chairman:
14:40	15:00	P. Zawadzki	Virtual reality production training system in the scope of intelligent factory
15:00	15:20	S. Saniuk	Decision support system for rapid production order planning in production network
15:20	15:40	D. Krenczyk	A Heuristic and Simulation Hybrid Approach for Mixed and Multi Model Assembly Line Balancing
15:40	16:00	J. Patalas-Maliszewska	An intelligent system for core-competence identification for Industry 4.0 based on research results from German and Polish manufacturing companies

16:00 17:30 Visiting CAMT research laboratories

17:00 17:30 PC meeting

From 17:45 Banquet (Summer Restaurant at the ZOO ul. Wróblewskiego 1-5), In the meantime touring AFRICARIUM

18:00 19:00 Touring AFRICARIUM

Day II (29.09.2017) Bldg. B-4

8:00 9:00 Registration of participants and Welcome coffee

Session 4a		Room 2.38	Chairman:
9:00	9:20	A. Gola	Integer Linear Programming in Optimization of Waste after Cutting in the Furniture Manufacturing
9:20	9:40	E. Kozłowski	Binary Linear Programming as a Decision-Making Aid for Water Intake Operators
9:40	10:00	J. Kotowska	Optimization of the supply of components for mass production with the use of the ant colony algorithm
10:00	10:20	J. Brodny	Application of neural-fuzzy system in prediction of methane hazard

Session 4b		Room 2.41	Chairman:
9:00	9:20	B. Gladysz	Dynamic spaghetti diagrams. A case study of pilot RTLS implementation
9:20	9:40	E. Michlowicz	Kanban System in the Flow Control Subassemblies as a Component of Lean Manufacturing
9:40	10:00	M. Chlebus	Reliability assessment of production process – Markov modelling approach
10:00	10:20	T. Vafeiadis	Incident detection in industrial processes utilizing machine learning techniques

10:20 10:50 Coffee break

Session 5a		Sala 2.38	Chairman:
10:50	11:10	R. Davidrajuh	A New Petri Nets based Approach for Modeling of Discrete Manufacturing System
11:10	11:30	A. TCHANGANI	Modeling and Analyzing Performance of a Production Unit using Dynamic Bayesian Networks
11:30	11:50	P. Korytkowski	Competence-based performance analysis of u-shaped assembly lines
11:50	12:10	S. Bracke	Multivariate process capability, process validation and risk analytics based on product characteristic sets: case study piston rod

Session 5b		Room 2.41	Chairman:
10:50	11:10	A. Jakubczyk-Galczyńska	Application of Support Vector Machine for Determination of Impact of Traffic-induced Vibrations on Buildings
11:10	11:30	K. Grzybowska	Durability of supply chains as non-renewable systems
11:30	11:50	D. Stadnicka	Information management and decision making supported by an intelligence system in kitchen fronts control process
11:50	12:10	B. Zwolińska	Algorithm of autonomic shaping of workflow

12:10 12:40 Coffee break

Session 6		Room 2.38	Chairman:
12:40	13:00	L. Jurdziak	Autocorrelation analysis of Cu content in ore streams in one of KGHM Polska Miedz S.A. mines
13:00	13:20	L. Jurdziak	Study on Tracking the Mined Ore Compound with the Use of Process Analytic Technology Tags
13:20	13:40	K. Rudnik	Transport trolley control in a manufacturing system using simulation with the FSAW, FWASPAS and FTOPSIS methods
13:40	14:00	D. Więcek	Production Costs of Machine Elements Estimated in the Design Phase

14:00 15:00 Lunch

15:00 15:30 Conference closing