

Detailed IMEKO TC10 2014 workshop schedule

Thursday, 26th of June

8:00-9:00 Registration

9:00-9:30 Opening ceremony

9:30-10:30 Invited lecture: Maciej Kościelny, Anna Szyber: "Diagnostic methods of industrial Processes"
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10:30-12:30 Oral Session I:

10:30-12:30 Oral Session I: Measurement and signal processing

<i>Error propagation and signal post-processing in rocket-based experiments</i>	Balassa Gábor, Bencze Pál, Dobrowiecki Tadeusz
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<i>A novel method for a stylus profilometer gauge calibration with a use of gage blocks and sine bar</i>	Sabina Żebrowska-Łucyk, Marta Wiśniewska
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<i>Compensation of temperature measurement error due to thermoelectric inhomogeneity</i>	Orest Kochan, Su Jun, Volodymyr Kochan
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<i>Distributed sensor network for structural characterization of buildings aggregates: discussion about aspects affecting measurement uncertainty</i>	D'Emilia G., Gaspari A., Natale E.
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<i>Measurements of geometry of a boiler drum by Time-of-Flight laser scanning</i>	K. Malowany, K. Magda, J. Rutkiewicz, M. Malesa, J. Michoński, M. Kujawińska
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<i>Method of compensation of errors in measurement of roundness and cylindricity deviation caused by eccentric position of the axis of measured element in relation to axis of rotation of FMM table</i>	Maciej Sieniło, Sabina Żebrowska-Łucyk
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12:30-13:00 Coffee break

13:00-15:00 Oral Session II

13:00-15:00 Oral Session II: Electrical engineering and electronics

<i>Unconventional double-current circuit – accuracy measures and application in two-parameter measurement</i>	Zygmunt Warsza, Adam Idzkowski, Wojciech Walendziuk
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<i>Semi-parametric estimation of the change-point of mean value of non-Gaussian random sequences by polynomial maximization method</i>	Serhii W. Zabolotnii, Zygmunt Lech Warsza
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<i>Method of Integral Nonlinearity Testing and Correction of Multi-Range ADC by Direct Measurement of Output Voltages of Multi-Resistors Divider</i>	Hu Zhengbing, Kochan Roman, Kochan Orest, Su Jun, Halyna Klym
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<i>Effectiveness of smoothing filters in the substations of 3kV DC railway traction - measurements and diagnostics</i>	Adam Szeląg, Tadeusz Maciołek, Marek Patoka
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<i>On-line measurements of input impedance of an electric traction vehicle supplied by DC catenary for identification and reduction of disturbances in signalling and control track circuits</i>	Marcin Steczek, Adam Szeląg
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15:00-16:00 Lunch

16:00-17:30 Poster session

Modelling of communication delays in wireless networks	Beata Krupanek, Ryszard Bogacz
New setup for calibration of vertical angle measuring systems	Ho Suhng Suh, Lauryna Šiaudinytė
Assumptions of construction of linear calibration bench for geodetic distance measurement equipment	Domantas Bručas, Lauryna Šiaudinytė, Mindaugas Rybokas
Two Application Examples of RFID Sensor Systems – Identification and Diagnosis of Concrete Components and Monitoring of Dangerous Goods Transports	Matthias Bartholmai and Markus Stoppel
Software for automated quality assessment of digitally processed video	Rafał Kłoda, Paweł Oczkowski, Sabina Żebrowska-Łucyk, Anna Ostaszewska-Liżewska
Correction of dynamics errors of measurements the methane concentration	Beata Krupanek, Ryszard Bogacz
Distributed Sensor-less Self-powered System for Measurement of Temperature Difference	Piotr Dziurdzia
Electrolytic Capacitor Lifetime Prediction in Ground Mobile Applications	M. Catelani, L. Ciani, R. Singuaroli, A. Mannucci
Failure rates sensitivity analysis using Monte Carlo simulation	M. Catelani, L. Ciani, S. Rossin, M. Venzi
Statement networks to condition monitoring of the sealless pump	Sebastian Rzydzik, Marcin Amarowicz, Krzysztof Psiuk, Tomasz Rogala
Condition monitoring of Pump-turbines	Eduard Egusquiza
A method for minimum node selection in diagnostics of analog systems	Adrian Bilski, Jacek Wojciechowski

17:30-18:00 Coffee break**18:00-19:00** IMEKO TC10 board meeting**19:00-22:00** Workshop dinner**Friday, 27th of June**

9:00-10:00 Invited lecture: Diego Galar, "The role of Artificial Intelligence in Diagnosis: A bridge between ICT and CM"

10:00-13:00 Tourist activities (Warsaw tour)**10:00-11:40** Oral Session III

10:00-11:40 Oral Session III: Algorithms
<i>A Safety System for Zero Velocity Detection and Operator Alertness Monitoring in Rolling Stock</i> D. Macii, S. Dalpez, M. Avancini, L. Benciolini, M. Corrà, R. Passerone
<i>Fault Diagnosis in Intelligent Greenhouse Control with Decomposed Neural Models</i> , Peter Eredics, Tadeusz P. Dobrowiecki
<i>Survey on Neuro-Fuzzy Systems and their Applications in Technical Diagnostics</i> Dr. Zs. J. Viharos, K. B. Kis
<i>Classifier Fusion in the Accelerometer Sensor Diagnostics</i> , Piotr Bilski
<i>ANOVA Techniques for Reliability Analysis</i> , Marcantonio Catelani, Lorenzo Ciani, Bianca Sereni and Andrea Zanobini

11:40-12:10 Coffee break

12:10-13:30 Oral Session IV

12:10-13:30 Oral Session IV: Materials	
<i>Probe Optimization for Velocity Induced Eddy Current Testing in Aluminium</i>	Tiago J. Rocha, Helena G. Ramos, A. Lopes Ribeiro, and Dário J. Pasadas
<i>Thickness measurements of corroded district heating pipelines with utilization of Structured Light Technique</i>	M. Malesa, I. Mazurkiewicz, A. Łebek, J. Michoński, K. Malowany, M. Kujawińska
<i>Eigenvalue and eigenmode analysis for eddy current sensor model and conducting material</i>	Maria Wrzuszcza, Janusz Wrzuszcza
<i>Remote Field Eddy Current NDT in Tubes Using Anisotropic Magneto-Resistors</i>	D. J. Pasadas, A. Lopes Ribeiro ¹ , T. J. Rocha, H. G. Ramos

13:30-14:30 Lunch**14:30-16:10** Oral Session V

14:50-16:10 Oral Session V: Industrial Applications	
<i>Validation of CAN Nodes Health Monitoring Method</i>	Tomáš Pospíšil, Jiří Novák
<i>LOW-COST DEVELOPMENT AND TESTING OF AN ON-LINE MEASUREMENT SYSTEM COLOR OF INDUSTRIAL APPLICATION</i>	Adrián Álvarez, Miguel A. Pérez
<i>Toward improved performance in separation of roughness, waviness and form: ISO 16610 series</i>	Sabina Żebrowska-Łucyk, Marta Wiśniewska
<i>Failure Modes Analysis and Diagnostic Architecture for Photovoltaic Plants</i>	Loredana Cristaldi, Marco Faifer, Massimo Lazzaroni, Mohamed Mahmoud Abdel Fattah Khalil, Marcantonio Catelani, Lorenzo Ciani
<i>Vibration Diagnostics of Electrical Rotating Machines</i>	Vladimír Zábanský, Olga Tůmová

16:10-16:40 Closing ceremony