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## Contents

<b>Foreword .....</b>	<b>8</b>
<b>Optical Sensor Systems with Micro-structured Grating in PMMA for POF-Applications .....</b>	<b>9</b>
<i>U. H. P. Fischer-Hirchert, S. Höll, M. Haupt, M. Joncic</i>	<i>9</i>
<b>High Performance of Cellulose Nanofibers/ Poly(3,4-ethylenedioxythiophene): Poly(4-styrenesulfonate)/ Metal Oxide/Ionic Liquid Actuators .....</b>	<b>13</b>
<i>N. Terasawa</i>	<i>13</i>
<b>A Flexible Acoustic Sensing System and Its Application to IIoT – Manufacturing Field Site.....</b>	<b>18</b>
<i>Y. Serizawa and Y. Shomura</i>	<i>18</i>
<b>An Ultra-wideband Band-pass Filter for Cosmic Microwave Background Observations .....</b>	<b>24</b>
<i>Javier De Miguel-Hernández, Roger J. Hoyland</i>	<i>24</i>
<b>An Ion Beam Guidance Control Tool Proposal .....</b>	<b>28</b>
<i>L. Bengtsson</i>	<i>28</i>
<b>Femtosecond Laser Inscribed Tilted In-fiber Beam Splitter Used for Reflective Mach-Zehnder Interferometer .....</b>	<b>33</b>
<i>Hua Zhang, D. N. Wang and Chunliu Zhao</i>	<i>33</i>
<b>On-fiber Polymer Whispering Gallery Mode Resonator Microprinted by Femtosecond Laser .....</b>	<b>36</b>
<i>Changrui Liao, Zhengyong Li, Lei Xu, Ying Wang, Jun He, Zhiyong Bai, Shen Liu, Yiping Wang</i>	<i>36</i>
<b>Microfiber/SiC-nanowire Coupler for All-optical UV Photodetection .....</b>	<b>38</b>
<i>Ying Wang, Changrui Liao, Longfei Zhang, Jun He, Zhiyong Bai, Shen Liu, Yiping Wang</i>	<i>38</i>
<b>SAW Sensors Based on Nanoparticles Embedded in Polymer for VOCs Detection.....</b>	<b>41</b>
<i>C. Viespe, I. Constantinoiu, G. Popescu-Pelin</i>	<i>41</i>
<b>High-temperature Sensors Based on Femtosecond Laser-inscribed Fiber Bragg Gratings .....</b>	<b>44</b>
<i>Jun He, Xizhen Xu, Changrui Liao, Ying Wang, Yiping Wang</i>	<i>44</i>
<b>Portable Bioimpedance Device and Monitoring of Hydration in a Healthy Person Before and After Exercise .....</b>	<b>47</b>
<i>V. Leonov, M. Konijnenburg, H. Ha, B. Grundlehner, and N. Van Helleputte</i>	<i>47</i>
<b>Biofluorometric Gas-imaging System (Sniff-cam) for Body Volatiles .....</b>	<b>51</b>
<i>K. Iitani, K. Toma, T. Arakawa and K. Mitsubayashi</i>	<i>51</i>
<b>BaY<sub>2</sub>F<sub>8</sub>:Yb<sup>3+</sup>, Ho<sup>3+</sup>/Tm<sup>3+</sup> Upconversion Phosphor for Optical Thermometer .....</b>	<b>54</b>
<i>H. C. Swart, Ashwini Kumar and Govind B. Nair</i>	<i>54</i>
<b>Novel Integrated Magnetic Sensor Based on Hall Element.....</b>	<b>57</b>
<i>Janez Trontelj, Damjan Berčan and Miha Gradišek</i>	<i>57</i>
<b>Mobile Optical Sensor System for DOM Monitoring in Stream Ecosystems .....</b>	<b>59</b>
<i>T. Posnicek, R. Preuer, G. Weigelhofer, A. Eder and M. Brandl</i>	<i>59</i>
<b>On the Fly Soil Classification Using Impedance Spectroscopy .....</b>	<b>61</b>
<i>Olga Chambers, Janez Trontelj, Jurij F. Tasič</i>	<i>61</i>
<b>Microfabricated Thermal Flow Rate Sensor .....</b>	<b>63</b>
<i>B. Neji</i>	<i>63</i>
<b>Low Frequency Hydrophone for Marine Seismic Exploration Systems.....</b>	<b>69</b>
<i>E. V. Egorov, A. S. Shabalina, D. L. Zaytsev and G. Velichko</i>	<i>69</i>
<b>Optical Method to Diagnose Circulatory Disorders .....</b>	<b>71</b>
<i>V. Shapar, V. Lysenko, A. Savchuk</i>	<i>71</i>
<b>Invisible Sensors for Early Prediction of Discontinuous Bed-leaving Behavior Patterns .....</b>	<b>74</b>
<i>H. Madokoro, K. Nakasho N. Shimoi, H. Woo and K. Sato</i>	<i>74</i>
<b>Development of a Sensitive and Selective Mixed-potential Ammonia Sensor for Automotive Exhausts.....</b>	<b>81</b>
<i>G. Nematbakhsh Abkenar, J. P. Viricelle, M. Rieu and P. Breuil</i>	<i>81</i>

<b>Optical Back-reflecting Sensor Based on Vertical Grating Coupler Configuration.....</b>	<b>83</b>
<i>A. Demeter-Finzi and S. Ruschin</i>	
<b>Sensors Based on Ion Transfer Voltammetry across the Polarized Ionic Liquid/Water Interface .....</b>	<b>85</b>
<i>J. Langmaier and Z. Samec</i>	
<b>Simulation of Crystallization and Mechanical Properties of Ge Thin Film for Flexible Sensor in Communication Devices.....</b>	<b>88</b>
<i>Y. Kogure, T. Funayama and Y. Uchida</i>	
<b>Monolithic Integrated PIN Photodiode Study with Backend Stack Optimization.....</b>	<b>92</b>
<i>I. Jonak-Auer, F. Roger and O. Synooka</i>	
<b>Design and Implementation of the Embedded System for Environmental Variables Measurement....</b>	<b>100</b>
<i>M. Pies, R. Hajovsky and J. Velicka</i>	
<b>Measurement System Development for Geotechnical Monitoring.....</b>	<b>106</b>
<i>M. Pies, R. Hajovsky</i>	
<b>Concept for Detection of Device Failures Using Active Grid Analysis .....</b>	<b>113</b>
<i>A. Faschingbauer, C. Sigl</i>	
<b>SVM Classification of Data Obtained from a Health Condition Monitoring System Using Flexible Force Sensing Resistors.....</b>	<b>117</b>
<i>Yasutaka Uchida, Tomoko Funayama, and Yoshiaki Kogure</i>	
<b>Silver Nanoparticle-modified Polypyrrole Love Wave Sensors Sensitive to Acetone.....</b>	<b>121</b>
<i>M. Setka, F. A. Bahos, D. Matatagui, I. Gràcia, E. Figueras, J. Drbohlavová, and S. Vallejos</i>	
<b>A Multivariate Emissivity Database for Industrial Infrared Radiation Thermometry .....</b>	<b>123</b>
<i>E. Chalkley</i>	
<b>Prediction of Temperature in WSN Using Artificial Intelligence.....</b>	<b>126</b>
<i>L. Formanek, M. Chochul and O. Karpiš</i>	
<b>Label-free Optical Fiber Sensing Platform Based on Lossy Mode Resonances .....</b>	<b>130</b>
<i>C. R. Zamarreño, P. Zubiate, A. Ozcariz, C. Elosua, A.B. Socorro, A. Urrutia, D. Lopez, N. De Acha, J. Ascorbe, J. M. Corres, M. Hernaez, J. Goicoechea, F. J. Arregui, I. R. Matías and I. del Villar</i>	
<b>Message Compression Concept for Software Defined IoT Edge Devices .....</b>	<b>132</b>
<i>R. Poeschl and A. Faschingbauer</i>	
<b>Laser-based Gas Sensors for Breath Analysis: From Research to the Clinic .....</b>	<b>137</b>
<i>S. M. Cristescu</i>	
<b>Differential Pressure Sensing Based on Phase Sensitive Detection for Liquid Level Measurement .....</b>	<b>139</b>
<i>P. Esmaili, F. Cavedo and M. Norgia</i>	
<b>Analysis of Climatic and Oceanic Variables in the Canarian Archipelago in the Last 15 Years through Remote Sensing .....</b>	<b>143</b>
<i>Nerea Marrero Betancort, Dionisio Rodríguez Esparragón and Javier Marcello Ruiz</i>	
<b>A Simple Method for Determination of the Frequency Response of the Constant-temperature Hot-wire Anemometer.....</b>	<b>146</b>
<i>S. Takagi, A. Inasawa and M. Asai</i>	
<b>Mobile Air Quality Monitoring System Using Unmanned Aerial Vehicles &amp; Wireless Sensors Networks.....</b>	<b>148</b>
<i>R. M. Camarillo, J. Flores, J. M. Camarillo, E. Hernandez, J. A. Ramirez, F. J. Castro</i>	
<b>Real-time Fusion of MEMS Accelerometers/Gyroscopes with Global Navigation Satellite Systems and Road Networks for Enhanced Urban Localization.....</b>	<b>153</b>
<i>Hamza Sadruddin and Mohamed M. Atia</i>	
<b>Possibility for Temporal Observation of Thrombus Generated in Extracorporeal Circulator Circuit by Photoacoustic Imaging Using LED .....</b>	<b>157</b>
<i>Takahiro Wabe, Ryo Suzuki, Kazuo Maruyama, Yasutaka Uchida</i>	

<b>Direct Sensing of Time-varying Displacement in Nanopositioners by Piezoelectric Ceramics Transducers</b> .....	161
<i>A. Bazaei, M. Boudaoud, M. H. Ettefagh, Z. Chen and S. Régnier 161</i>	
<b>Arrays of Gas Sensing Elements Based on Cerium Oxide-tungsten Oxide Core-shell Single-nanowires</b> .....	166
<i>O. Chmela, J. Sadilek, G. Domènech-Gil, A. Romano-Rodriguez, J. Hubálek, S. Vallejos166</i>	
<b>Extending Bee Hive Health State Monitoring by Integrated Acoustical Sensing and Machine Learning</b> .....	168
<i>A. König 168</i>	
<b>Effect of Thin Film Interconnect Inelasticity on MEMS Pressure Sensor Hysteresis</b> .....	174
<i>Y. Hamid, D.A. Hutt, D.C. Whalley and R. Craddock 174</i>	
<b>Correlation between Weather Conditions and Respiratory Pathologies in Gran Canaria by the Use of Remote Sensing</b> .....	177
<i>I. Caballero-Leiva, N. Marrero Betancort, J. J. Rodriguez Betancor, D. Rodriguez-Esparragón, J. Marcello 177</i>	
<b>Mechanoluminescent Pulse Pressure Sensors</b> .....	182
<i>K. V. Tatmyshevskiy182</i>	
<b>Noise Analysis of PCB-based, Double-core Planar Fluxgate Sensor</b> .....	185
<i>M. Ortner, A. Roshanghias, M. Lenzhofer and T. Becher 185</i>	
<b>New Approach to Sensing Amphiphilic Electrochemically Active Compounds</b> .....	187
<i>T. Navrátil, A. Rajcová, R. Jerga, V. Müllerová, S. Zacharov and J. Skopalová 187</i>	
<b>Development and Mathematical Description of a Bistable Hydrogel-based Sensor Switch for Monitoring of the Relative Humidity</b> .....	189
<i>N. Gulnizkij and G. Gerlach 189</i>	
<b>Carbon Fiber Brush Electrode for Detection of Bioactive Compounds Transported Across Biomimetic Membranes</b> .....	193
<i>J. Skopalová, D. Riman, R. Jerga and P. Barták193</i>	
<b>An Overview of Magnetometer Sensors Performance for the Purposes of Traffic Flow Monitoring</b> .....	195
<i>M. Hodoň, O. Karpíš, P. Ševčík, J. Miček and A. Kociánová 195</i>	
<b>Adaptable Power Consumption Profiles for Wearable Localization Devices</b> .....	200
<i>Manuel Faustino, Jorge Calado, João Sarraipa and Ricardo Jardim-Gonçalves 200</i>	
<b>Detection of the Glial-fibrillary-acidic-protein Biomarker with an Ultra-high-frequency Surface-acoustic-wave Lab-on-a-Chip</b> .....	207
<i>M. Agostini, G. Greco, M. L. Vieri, F. Amato and M. Cecchini207</i>	
<b>High-resolution Data Acquisition and Control System for Performance Monitoring of Domestic Solar Water Heaters</b> .....	209
<i>E. L. Meyer, J. C. Nwodo and O. K. Overen209</i>	
<b>Effect of the Channel Length in the Response of a MIS Transistor Sensor with Optical Gain for Nano-watts Light Signal</b> .....	214
<i>J. Hernández-Betanzos, A. A. Gonzalez-Fernandez, J. Pedraza and M. Aceves-Mijares 214</i>	
<b>Secure PUF: Physically Unclonable Function Based on Arbiter with Enhanced Resistance Against Machine Learning (ML) Attacks</b> .....	216
<i>Mohammad El-Hajj, Ahmad Fadlallah, Maroun Chamoun, Ahmed Serhrouchni 216</i>	
<b>Oxygen Gas Sensing Technologies New Features in Combustion Process</b> .....	222
<i>P. Shuk and C. McGuire222</i>	
<b>Ultrasonic Flowmeter for Leakage Detection in Water Mains</b> .....	225
<i>F. Huber, M. Schwarz and B. Zagar 225</i>	
<b>New Method for NO/NO<sub>2</sub>/NH<sub>3</sub> Measurements and differentiation with a Single Sensor</b> .....	231
<i>B. Ya. Farber, G. Graves, Y. C. Li, T. Rash and N. W. Currier 231</i>	
<b>A Study on Low Latency Serial Power Line Tunnels for Sensor Data Transmission</b> .....	233
<i>K. Kellner, D. Hochwarter, M. Brandl 233</i>	

<b>Design and Implementation of Environment Monitoring System Based on ZigBee.....</b>	<b>236</b>
<i>Fuzheng Zhang, Weile Jiang, Qijing Lin, and Hao Wu 236</i>	
<b>Peculiarities of Testing of Measurement Instrument Software in Ukraine.....</b>	<b>241</b>
<i>O. Velychko, O. Hrabovskyi and T. Gordiyenko 241</i>	
<b>VarroaCounter – Towards Automating the Varroa Screening for Alleviated Bee Hive Treatment.....</b>	<b>244</b>
<i>A. König 244</i>	
<b>AlN Nanopowder for Biological and Optical Oxygen Gas Sensors.....</b>	<b>248</b>
<i>B. Berzina, L. Trinkler and V. Korsaks248</i>	
<b>Polyaniline Nanocomposites Based Sensor for Simultaneous and Selective Measurement of Ammonium Nitrate Aerosol and Ammonia Gas.....</b>	<b>250</b>
<i>M. L. Boukhenane, N. Redon, J.-L. Wojkiewicz and P. Coddeville 250</i>	
<b>Detection Level of Honeybee Disease: Varroosis Using a Gas Sensor Array .....</b>	<b>255</b>
<i>A. Szczurek, M. Maciejewska, B. Bąk, J. Wilk, J. Wilde, M. Siuda 255</i>	
<b>Sapphire Optical Fiber Sensor for Ultra High Temperature Measurement.....</b>	<b>257</b>
<i>Na Zhao, Qijing Lin, Zhuangde Jiang, Kun Yao, Bian Tian, Zhongkai Zhang 257</i>	
<b>Ultrasonic Temperature Measurement.....</b>	<b>261</b>
<i>M. Reisinger, M. Schwarz and B. Zagar 261</i>	
<b>raw-LoRa vs. LoRaWAN for Urban Monitoring: Two Wireless Sensor Network Architectures in Comparison.....</b>	<b>265</b>
<i>S. Tondini, S. Tritini, S. Croce, S. Seppi and R. Monsorno 265</i>	
<b>Pulse Shape Dependence on Applied Voltage of Geiger-Mueller Detector .....</b>	<b>270</b>
<i>B. Almutairi, S. B. Alam, T. Akyurek, C. Goodwin, A. Olson, and S. Usman 270</i>	
<b>Observation of CO Detection Using Aluminum-doped ZnO Nanorods on Microcantilever .....</b>	<b>273</b>
<i>R. Nuryadi, L. Aprilia, M. Hosoda, A. Udhiarto, D. Hartanto, M. A. Barique, Y. Neo and H. Mimura 273</i>	
<b>First Step Towards a Magnetic Polymer-based Ethanol Gas Sensor.....</b>	<b>276</b>
<i>B. López-Walle, J. Bravo-Guerra, S. Gómez-Flores and E. Reyes-Melo 276</i>	
<b>A New Amperometric Enzyme-based Biosensor for Specific Determination of 17<math>\beta</math>-estradiol .....</b>	<b>280</b>
<i>K. Spychalska, J. Cabaj 280</i>	
<b>Lung Volumes and Ventilation Assessment Using Multifrequency Bioimpedance Meter .....</b>	<b>282</b>
<i>Vladimir Leonov and Huynsoo Ha 282</i>	
<b>Cognitive Measurements: a New Paradigm of Measurement Science .....</b>	<b>286</b>
<i>Valery B. Tarassov286</i>	
<b>Magnetic Polymer Minirobots for Aquatic Operation: Design and First Characterizations .....</b>	<b>292</b>
<i>L. Miranda-Vázquez, B. López-Walle, S. Zapata-Reyes, J. Cisneros-Hinojosa and E. Reyes-Melo 292</i>	
<b>Suspended Carbon Nanotubes Gas Sensor.....</b>	<b>297</b>
<i>S. Arunachalam, F. Nabki and R. Izquierdo297</i>	
<b>Continuous Sorting of Submicron Particles in a Pre-analytical Device Based on Acousto-fluidic Microsystem .....</b>	<b>299</b>
<i>A. Chaalane, D. Guneyusu, M. Addouche, R. Zeggari, F. Lardet-Vieudrin, C. Elie-Caille, W. Boireau and A. Khelif 299</i>	
<b>An Ontological Approach in Measurement Science: Towards a System of Measurement Ontologies .....</b>	<b>301</b>
<i>V. B. Tarassov, M. N. Koroleva301</i>	
<b>Rapid Strain Differentiation of E. coli-inoculated Urine Using Olfactory-based Smart Sensors.....</b>	<b>307</b>
<i>Aminat Adebisi, Nam Than, Sarath Swaminathan, Mohammed Abdi, Amy N. Bowers, Andrea Fasoli, Alberto Mannari, Luisa Bozano 307</i>	
<b>Communication Anomaly Detection in Cyber-physical Systems .....</b>	<b>311</b>
<i>P. Blazek, R. Fajdiak, M. Hodon, I. Zolotova, P. Mlynek and J. Misurec 311</i>	

<b>New Trends in Measurement Science. Bayesian Intelligent Measurements.....</b>	<b>317</b>
<i>S. V. Prokopchina</i>	317
<b>Financial Measurement by the Means of Bayesian Regularization Approach.....</b>	<b>323</b>
<i>V. B. Dernovoi, S. N. Mishchenko</i>	323
<b>The Global Measurement. The new Trend in Measurement Science.....</b>	<b>326</b>
<i>Iliia V. Iljin, Svetlana V. Prokopchina</i>	326
<b>The Methodologies Aspects of Measurement in Energy and Housing Applications.....</b>	<b>328</b>
<i>S. Sheremet'ev, A. Frolov</i>	328

## Foreword

On behalf of the SEIA' 2019 Organizing Committee, we introduce with pleasure these proceedings devoted to contributions from the 5<sup>th</sup> International Conference on Sensors and Electronic Instrumentation Advances (SEIA'2018) held in Adeje, Tenerife (Canary Islands), Spain. The conference is organized by the *International Frequency Sensor Association (IFSA)* – a professional association serving for the sensor industry and academy during 20 years in technical cooperation with the IFSA Group companies: *IFSA Publishing, S.L.* (Spain) and *F2D, Ltd.* (Ireland), and media partners: Open Access MDPI journals *Sensors* (ISSN 1424-8220) and *Biosensors* (ISSN 2079-6374), Switzerland. The conference program provides an opportunity for researchers interested in various applications of sensing and measurement to discuss their latest results and exchange ideas on the new trends. The main objective of the conference is to encourage discussion on a broad range of sensor related topics and to stimulate new collaborations among the participants.

Since its inception, the Conference has enjoyed an atmosphere of high quality technical presentations on a broad range of multidisciplinary topics related to sensors, transducers, measurements and their applications.

Extending the tradition that began in 2015 in Dubai, UAE, this annual conference on sensors attracts over 100 researchers and practitioners in the sensor, field, sensor technology and application from around the world including 5 keynote speakers from a distinguished researchers of industry from the USA, the Netherlands, Spain, Romania and Portugal who were invited to overview the progress in selected research trends. This year, we have included 95 papers from 31 countries into the conference proceedings, covering theory, design, device technology, and applications of sensors and sensing systems. To accommodate this range of interests, the 5<sup>th</sup> SEIA' 2019 Conference was organized in seven dedicated regular sessions, four special sessions on '*Gas Sensors*', '*IoT: Sensors, Networks and Applications*', '*New Trends in Measurement Science: Intelligent Measurements*', '*Frequency & Time*' and one poster session.

The proceedings contains all accepted papers of both: oral and poster presentations. We hope that these proceedings will give readers an excellent overview of important and diversity topics discussed at the conference.

We thank all authors for submitting their latest work, thus contributing to the excellent technical contents of the Conference. Especially, we would like to thank the individuals and organizations that worked together diligently to make this Conference a success, and to the members of the International Program Committee for the thorough and careful review of the papers. It is important to point out that the great majority of the efforts in organizing the technical program of the Conference came from volunteers.

*Prof., Dr. Sergey Y. Yurish*

*Dr. Amin Daneshmand Malayeri*



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