

*exp.at'19 – 5th Experiment@ International Conference
June 11 – 15, 2019*

Programme:

Tuesday, June 11		
Activity	Place	Time
Registration	UMa-R Atrium	09:30 18:00
Tue1 – Activity: Pendulum Alliance Project Meeting <i>Chair: Horácio Fernandes</i>	UMa-R Room P	09:30 13:00
Tue2 – Workshop #1: “World Pendulum Alliance Workshop Using a constellation of pendulums in an immersive inquiry-based learning built on dimensional analysis” <i>Chair: Horácio Fernandes</i>	UMa-R Room P	14:00 15:40
Coffee-break	UMa-R Room C	15:40 16:00
Tue3A – Workshop #2: “Guidelines for Assignments Using Remote and Virtual Labs: Building the Instructional Framework” <i>Chair: Susan Zvacek</i>	UMa-R Room R	16:00 17:50
Tue3B – Workshop #3: “Introduction to PILAR as VISIR federation and Multiplier event of the PILAR Project” <i>Chairs: Felix Garcia-Loro, Manuel Castro, Wlodek Kulesza, Susana Marchisio, Federico Lerro</i>	UMa-R Room L	16:00 17:50
Tue3C – Activity: Pendulum Alliance Project Meeting (cont.) <i>Chair: Horácio Fernandes</i>	UMa-R Room P	16:00 17:50
Tue4A – Workshop #4: “Internals and full access to the PILAR Federation” <i>Chairs: Felix Garcia-Loro, Manuel Castro, Wlodek Kulesza, Susana Marchisio, Federico Lerro</i>	UMa-R Room L	18:00 19:00
Tue4B – Workshop #5: “Real-Time Air Quality Monitoring via an Online Platform Supported by Low-Cost Nanosensors” <i>Chairs: Esther Hontañón, Filipe Araújo, Jesús Lozano, Philippe Menini, Lionel Presmanes, Sergio Masa</i>	Eng. Order- RM, Aud	18:00 19:30
Pre-conference Dinner	Restaurant “Espaço Funchal”	20:00

Wednesday, June 12		
Activity	Place	Time
Registration	UMa-R Atrium	08:30 18:00
Wed1 – Opening Session	UMa-R Room R	09:00 09:30
Wed2 – Plenary Session I: “Virtual Coastal Observatories: a vision for the future”, Rui Caldeira (ARDITI-Madeira, Portugal) Chairs: João Carneiro and Esther Hontañón	UMa-R Room R	09:40 10:30
Coffee-break	UMa-R Room C	10:30 10:50
Wed3A – Parallel Session: “Augmented and Virtual Reality” Papers: #29, #39, #78, #112, #114 Chairs: Silvia Pizzoli and Dominik May Papers: #29 - Do you want to live forever? Virtual Humans and Digital Immortality <i>Maggi Savin-Baden, Victoria Mason-Robbie, David Burden</i> #39 - Applying Augmented Reality to New or Existing Remote Access Laboratories <i>Mark Smith, Ananda Maiti, Andrew Maxwell, Alexander A. Kist</i> #78 - Wattom: Ambient Eco-feedback with Mid-air Input <i>Augusto Esteves, Filipe Quintal, Fábio Caires, Vítor Baptista, Pedro Mendes</i> #112 - A Study of Contactless Human Computer Interaction with Virtual Environments <i>Yahir Hernandez-Mella, Antonio Marin-Hernandez, Ericka Rechy-Ramirez, Luis Felipe Marin-Urias</i> #114 - Virtual Reality in the Study of the Male Urinary System <i>Sérgio Pinto, António André, Pedro Martins</i>	UMa-R Room R	10:50 12:50
Wed3B – Parallel OEEE'19 Special Session I - “Online Experimentation in Science and Engineering Education” Papers: #8, #13, #30, #33, #44, #45 Chairs: Claudius Terkowsky and David Boehringer Papers: #8 - Evaluating the effectiveness of virtual environment experiments to change conceptual knowledge in the context of non-formal learning <i>Diana Urbano, Maria De Fátima Chouzal, Maria Teresa Restivo</i> #13 - A framework for interpreting experimental errors in VISIR <i>Javier Garcia-Zubia, Gustavo Alves, Unai Hernández-Jayo, Jordi Cuadros, Vanessa Serrano, André Fidalgo</i> #30 - Open Digital Lab for You – Remote and virtual laboratories in higher education, research and qualification <i>Anke Pfeiffer, Dieter Uckelmann</i> #33 - Dashboard for the VISIR remote lab <i>Javier Garcia-Zubia, Jordi Cuadros, Vanessa Serrano, Unai Hernández-Jayo, Ignacio Angulo, Aitor Villa, Pablo Orduña, Gustavo Alves</i> #44 - Analytics on the accesses to contents in e-lab remote control laboratories <i>Rúben Cardoso, Manuel Santos, Horácio Fernandes</i> #45 - A MOOC with an e-lab remotely controlled experiment: student behaviour analysis <i>Rúben Cardoso, Manuel Santos, Horácio Fernandes, Victor Negîrneac, Ana M. Santos</i>	UMa-R Room L	10:50 12:50

Wednesday, June 12		
Activity	Place	Time
<p>Wed3C – Parallel OEC'19 Special Session I: “Online Experimentation in Control” Papers: #18, #68, #73, #96, #103, #111 Chairs: Dionísio Barros and Wlodek J. Kulesza Papers: #18 - ELSA-SP – Through-the-cloud subscribe-publish scheme for interactive remote experimentation under iLab Shared Architecture and its application to an educational PID control plant <i>Thiago S. Uhlmann, Henrique D. Lima, André L. Luppi, Luciano A. Mendes</i> #68 - A WebLab Control Experiment using the Ball and Beam System and Multiobjective Optimization <i>Ricardo M. Kagami, Guinther K. Costa, Luciano A. Mendes, Roberto Z. Freire</i> #73 - PuzzlEx: an Online Experimentation Environment for Control Engineering Labs <i>Daniel Galan, Rubén Heradio, Dictino Chaos, Luis de la Torre, Ernesto Aranda</i> #96 - On an IFAC Online Pilot Survey For A First Course On Control <i>Mikulas Huba, John A. Rossiter, Katarina Žáková, Atanas Serbezov, Antonio Visioli</i> #103 - Integration of new control experiments to online environment <i>Matej Rábek, Katarína Žáková</i> #111 - 3D Three-Tank Remote Laboratory Based on Matlab and Websockets <i>Pavol Bisták</i></p>	<p>UMa-R Room P</p>	<p>10:50 12:50</p>
<p>Lunch</p>	<p>UMa-R Room C</p>	<p>13:00 14:30</p>
<p>Wed4A – Parallel Session: “Remote Monitoring, IoT and Smart Homes” Papers: #1, #6, #49, #107, #108 Chairs: Paulo Abreu and Jan Steinbrener Papers: #1 - Toward Solar Energy Harvesting for Small Cell Networks: Technology, Feasibility, and Challenges <i>Rachad Atat, Rubayet Shafin, Erchin Serpedin</i> #6 - Smart Home Energy Management Supported by Cloud Computing <i>Joaquim Leitão, Paulo Gil, Bernardete Ribeiro, Alberto Cardoso</i> #49 - Experimental NFT hydroponics system with lower energy consumption <i>Carlos Ramos, Leonel Nóbrega, Karolina Baras, Luís Gomes</i> #107 - Extended Reality (XR) in IoT Scenarios: Concepts, Applications and Future Trends <i>Daniel Bastos, Tiago Andrade</i> #108 - Remote Precipitation Monitoring Using a Microwave Link <i>Sofia Inácio, Filipe Santos, Joaquim Azevedo</i></p>	<p>UMa-R Room R</p>	<p>14:30 16:10</p>

Wednesday, June 12		
Activity	Place	Time
<p>Wed4B – Parallel OEEE'19 Special Session II: "Online Experimentation in Science and Engineering Education" Papers: #19, #25, #37, #63, #76 Chairs: Diana Urbano and Javier Garcia-Zubia Papers: #19 - Is a Remote Laboratory a Means to Develop Competences for the 'Working World 4.0'? A Brief Tentative Reality Check of Learning Objectives <i>Claudius Terkowsky, Silke Frye, Dominik May</i> #25 - Collaborative development of plasma physics MOOC in the context of a PhD curricular unit <i>Rui Calado, Ricardo Ferreira, Rui Torres, Duarte Gonçalves, André Torres, Emanuel Ricardo, Vasco Guerra, Horácio Fernandes</i> #37 - From laboratory education to laboratory edu-action: evaluation of a redesigned lab course for prospective technology teachers and resulting demands for cyber-physical 'remotification' <i>Judyta Franaszkiewicz, Sabrina Heix, Silke Frye, Tobias Haertel, Claudius Terkowsky</i> #63 - The use of technology in education: Just-In-Time (JiTT) teaching methodology and remote laboratory <i>Luane Campos, Julia P. Leite, Gabriel Silva, Fernando Valencia, Alice M. Ribeiro</i> #76 - Fostering the Comprehension of the Object-Oriented Programming Paradigm by a Virtual Lab Exercise <i>Veronika Thurner</i></p>	<p>UMa-R Room L</p>	<p>14:30 16:10</p>
<p>Wed4C – Parallel OEC'19 Special Session II: "Online Experimentation in Control and Automotive Control" Papers: #89, #93, #99, #102, #124 Chairs: Luciano A. Mendes and Pavol Bisták #89 - Online Control of Microgrids Islands Connected by Electrical Submarine Cable <i>Luís Gouveia, J. Dionísio Barros</i> #93 - Electronic Automotive Control <i>J. Dionísio Barros, Eduardo J. N. Spinola, Filipe E. Sousa Santos</i> #99 - Introductory experiments for a stable plant control <i>Mikulas Huba, Pavol Bisták, Matej Rábek, Katarina Žáková</i> #102 - Learning Objects and Experiments for Active Disturbance Rejection Control <i>Mikulas Huba, Maria Hypiúsova, Peter Tapak</i> #124 - Web presentation of quarter car model <i>Marcel Boldis, Katarina Žáková</i></p>	<p>UMa-R Room P</p>	<p>14:30 16:10</p>
<p>Coffee-break</p>	<p>UMa-R Room C</p>	<p>16:10 16:30</p>

Wednesday, June 12		
Activity	Place	Time
<p>Wed5A – Parallel Session: “Online Experimentation and IoT in Engineering Education” Papers: #5, #47, #55, #95, #118 Chairs: Anke Pfeiffer and Manuel Gericota Papers:</p> <p>#5 - Improving the Usability of Interactive Systems by Incorporating Design Thinking into the Engineering Process: Raising Computer Science Students’ Awareness of Quality versus Quantity in Ideation <i>Frode E. Sandnes, Evelyn Eika, Fausto O. Medola</i></p> <p>#47 - Agile approach to a CS2-based course using the Jupyter notebook in lab classes <i>Hélia Guerra, Luís M. Gomes, Alberto Cardoso</i></p> <p>#55 - Improving the use of remote laboratories. The case of VISIR at Universidad Nacional de Rosario <i>Federico Lerro, Susana Marchisio, Sonia Concari, Miguel Plano, Claudio Merendino, Gastón S. Arregui, Javier García-Zubía, Unai H. Jayo, Gustavo Alves</i></p> <p>#95 - Automation of Basic Supervision Tasks in a Remote Laboratory – Case Study NetLab <i>Hugh Considine, Zorica Nedic, Andrew Nafalski</i></p> <p>#118 - Teaching Internet of Things in a Collaborative Laboratory Environment <i>Ananda Maiti, Alexander Kist, Terry Byrne</i></p>	<p>UMa-R Room R</p>	<p>16:30 18:10</p>
<p>Wed5B – Parallel Session: “Remote and Virtual Experimentation” Papers: #7, #21, #36, #54, #64 Chairs: Vanessa Mai and Alexander Zimin Papers:</p> <p>#7 - Online Simulation of Methods to Predict the Remaining Useful Lifetime of Aircraft Components <i>Daniel Azevedo, Bernardete Ribeiro, Alberto Cardoso</i></p> <p>#21 - Upgraded Plasma Spectroscopy Internet Laboratory <i>Alexander Zimin, Vladislav Troynov, Ivan Zemtsov</i></p> <p>#36 - Remote experimentation in the teaching of physics in Costa Rica: First steps <i>Carlos Arquedas-Matarrita, Pablo Orduña, Lucas M. Carlos, Marco Conejo-Villalobos, Sonia Concari, Fernando Ureña-Elizondo, Juarez B. Silva, Javier García-Zubía, Luis Rodriguez-Gil, Unai Hernandez-Jayo, Susana Marchisio, João B. Alves</i></p> <p>#54 - Remote monitoring and control of winemaking parameters <i>Petru Epure, Doru Ursutiu, Cornel Samoila</i></p> <p>#64 - Online experimentation at the GOLEM tokamak <i>Vojtech Svoboda, Ondrej Grover, Jan Stockel</i></p>	<p>UMa-R Room L</p>	<p>16:30 18:10</p>
<p>Welcome Reception</p>	<p>“Quinta Vigia”</p>	<p>19:00</p>

Thursday, June 13		
Activity	Place	Time
Registration	UMa-R Atrium	08:30 13:00
<p>Thu1 – “Online Experimentation DEMOS Session I” Demos: #10, #15, #40, #48, #58, #60, #65, #67, #79, #83, #105, #115, #119 Chairs: Horácio Fernandes and Thomas Klinger Demos: #10 - Dynamic Repository of Experimental Results <i>Saša Gavrilović, Jovan Kovačević, Milan Matijević</i> #15 - Interactive Content Objects as GOLDi-Lab Services <i>Karsten Henke, Heinz-D. Wuttke, René Hutschenreuter, Detlef Streitferdt</i> #40 - Web-based tool for Predicting the Remaining Useful Lifetime of Aircraft Components <i>Daniel Azevedo, Bernardete Ribeiro, Alberto Cardoso</i> #48 - Smartly Water: Interaction with a smart water network <i>Jorge Calça, Leonel Nóbrega, Karolina Baras</i> #58 - Interactive Demonstration of a Energy Efficient YOLOv3 Implementation in Reconfigurable Logic <i>Bruno Oliveira, Jorge Lobo</i> #60 - Immersive Serious Games for Post-Stroke Motor Rehabilitation <i>Bruno Ferreira, Paulo Menezes</i> #65 - Remote demonstration of the GOLEM tokamak <i>Vojtech Svoboda, Ondrej Grover, Jan Stockel</i> #67 - Serious Game for reading and spelling skills <i>Ana Sucena, Ana F. Silva, Cristina Garrido, João F. Carneiro, Paulo Abreu, M. Teresa Restivo</i> #79 - Edge Computing: A Neural Network Implementation on an IoT Device <i>Ricardo Barreto, Jorge Lobo, Paulo Menezes</i> #83 - Musiquence: a serious game customization system for dementia <i>Luís Ferreira</i> #105 - Custom-made exergames for older people: New inputs for multidimensional physical <i>Honorato Sousa, Élvio Gouveia, Mónica Cameirão, Afonso Gonçalves, John Muñoz, Teresa Paulino, Hugo Simão, Ricardo Nunes, Alexandre Bernardino and Sergi B. i Badia</i> #115 - Interactive DEMONstration of Medical Simulations using a Virtual Reality approach: Application to the Male Urinary System <i>Pedro Martins, Sérgio Pinto, António André</i> #119 - Integral Remote laboratory for Programmable Logic <i>Ignacio Angulo, Javier Garcia-Zubia, Pablo Orduña, Luis Rodriguez-Gil, Aitor Villar</i></p>	UMa-R Room D	08:30 10:00
Coffee-break	UMa-R Room C	10:00 10:20

Thursday, June 13		
Activity	Place	Time
<p>Thu2 – “Online Experimentation DEMOS Session II” Demos: #3, #4, #12, #32, #43, #50, #51, #52, #85, #104, #113, #116 Chairs: Leonel Nóbrega and David Boehringer #3 - Travelling in a virtual city: a physical exercise promoting game <i>José Rodrigues, Paulo Menezes, M. Teresa Restivo</i> #4 - Industrial IoT Smartbox for the Shop Floor <i>Sérgio Malhão, Rogério Dionísio, Pedro Torres</i> #12 - PILAR: A Federation of VISIR Systems for Analog Electronics <i>Felix G. Loro, Manuel Castro</i> #32 - A Remote Laboratory in Transmission Line Theory with VISIR <i>Thomas Klinger, Christian Kreiter, Andreas Pester, Christian Madritsch</i> #43 - Augmenting Shared Spaces in Psychotherapy Contexts <i>Bruno Patrão, Paulo Menezes, Nuno Gonçalves</i> #50 - The importance of speaker specific features for emotion recognition <i>Gustavo Assunção, Paulo Menezes, Fernando Perdigão</i> #51 - A framework for remote labs supported by Visual Programming Language, Arduino and analytics <i>Hamadou Saliah-Hassane, Lucas M. Carlos, José Pedro S. Simão, Juarez B. Silva, João B. Alves</i> #52 - A Hybrid Application For Real-Time Air Quality Monitoring <i>Jorge Silva, Pedro Lucas, Filipe Araújo, Catarina Silva, Paulo Gil, Alberto Cardoso, Joel Arrais, Bernardete Ribeiro, Daniel Coutinho, Pedro Salgueiro, Luís Rato, José Saias, Vítor Nogueira</i> #85 - World Pendulum Alliance <i>Manuel Santos, Carlos Rodriguez, Celia Anteneodo, Cristina Marlasca, Gesil Segundo, Joao Loureiro, Juan Collantes, Manuel Escobar, Orlando Allard, Ruben Cardoso, Rui Neto, Vojtech Svoboda, Yeny Erazo, Horácio Fernandes</i> #104 - Augmented Reality for Accessible Digital Mental Healthcare <i>Victoria Lush, Christopher Buckingham, Stephen Wileman, Suzanne Edwards, Ulysses Bernardet</i> #113 - The Virtual Human Breathing Relaxation System <i>Sanobar Dar, Victoria Lush, Ulysses Bernardet</i> #116 - Web Interface for River Hydrodynamics Simulation <i>Alexandra Ribeiro, Alberto Cardoso, Alfeu S. Marques, Nuno E. Simões</i></p>	<p>UMa-R Room D</p>	<p>10:20 11:50</p>
<p>Thu3 – Plenary Session II: “Every Click You Make: Who Is Watching You?”, <i>Susan Zvacek (Consultant, USA)</i> Chairs: Mario Bochicchio and James Wolfer</p>	<p>UMa-R Room R</p>	<p>12:00 12:50</p>
<p>Lunch</p>	<p>UMa-R Room C</p>	<p>13:00 14:30</p>
<p>Move to “Museu da Eletricidade – Casa da Luz” by walking</p>	<p>UMa-R Atrium</p>	<p>14:30</p>

Thursday, June 13		
Activity	Place	Time
Thu4 – “Industry Session” I <i>Ismaél Gomez and Rui Bazenga (Via Litoral), Nuno Pereira (Águas e Resíduos da Madeira), Luís Nuno Rodrigues (NAV Portugal, E.P.E)</i> Chairs: Beatriz Jardim (E. Eletricidade da Madeira) and Alcibiádes Guedes (INEGI)	M. Eletric. Aud	15:00 16:10
Thu5 – “Industry Session” II: “Bridging the gap between Academy and the real world applications: INEGI case study” <i>Alcibiádes Soares Guedes, (Institute of Science and Innovation in Mechanical and Industrial Engineering)</i> Chairs: Andreas Pester and Manuel Castro	M. Eletric. Aud	16:10 16:45
Coffee-break	M. Eletric.	16:45 17:15
Thu6 – Plenary Session III: “Assessment and monitoring of the dynamic behaviour of high-speed railway infrastructure”, Rui Calçada (University of Porto, Portugal) Chairs: Paulo Menezes and Alexander A. Kist	M. Eletric. Aud	17:15 18:00
Social Activity: Piano Recital <i>Szöcs Botond (Faculty of Music, Transilvania University of Brasov, Romania)</i> Chair: Stela Dragulin and Doru Ursutiu	UMa-R	21h00

Friday, June 14		
Activity	Place	Time
Registration	UMa-R Atrium	08:30 18:00
Fri1A – Workshop #6: “Image Processing with Raspberry PI Pocket Labs” <i>Chairs: Andreas Pester and Thomas Klinger</i>	UMa-R Room P	08:00 08:50
Fri1B – Workshop #7: “Instrumented Devices for e-Health and e-Rehabilitation” <i>Chair: Paulo Abreu</i>	UMa-R Room L	08:00 08:50
Fri2A – Parallel STIMHA’19 Special Session I: “Smart Technologies and Interactive Media for Health Applications” Papers: #35, #87, #92, #94 <i>Chairs: Maggi Savin-Baden and Daniel Bastos</i> Papers: #35 - A preliminar analysis and comparison of international projects on mobile devices and mHealth Apps for heart failure <i>Mario Bochicchio, Lucia Vaira, Andrea Mortara, Renata de Maria</i> #87 - Usability Evaluation of an Integrative Exergaming System for the Senior Population <i>Teresa Paulino, Sergi B. i Badia, Mónica Cameirão</i> #92 - Reh@City v2.0: a comprehensive virtual reality cognitive training system based on personalized and adaptive simulations of activities of daily living <i>Teresa Paulino, Ana Faria, Sergi B. i Badia</i> #94 - Exergames and their benefits in the perception of the Quality of Life and Socialization on institutionalized older adults <i>Heitor Cardoso, Alexandre Bernardino, Luísa loureiro, Mafalda Sanches</i>	UMa-R Room R	09:00 10:20
Fri2B – Parallel AQM’19 Special Session I: “Air Quality Monitoring” Papers: #2, #42, #86, #109 <i>Chairs: Lionel Presmanes and Begoña Artiñano</i> Papers: #2 - Using a variable buoyancy system for energy savings in an AUV <i>João F. Carneiro, João Pinto, Fernando G. Almeida, Nuno Cruz</i> #42 - Chemiresistive Sensors based on Electrospun Tin Oxide Nanofibers for Detecting NO2 at the sub-0.1 ppm level <i>Esther H. Lavín, Sergio Masa, José Pedro Santos, Isabel Sayago, Jesús Lozano</i> #86 - Personal electronic systems for citizen measurements of air quality <i>Jesús Lozano, Patricia Arroyo, José Ignacio Suárez, Félix Meléndez</i> #109 - An Online Platform For Real-Time Air Quality Monitoring <i>Jorge Silva, Pedro Lucas, Filipe Araújo, Catarina Silva, Paulo Gil, Alberto Cardoso, Joel Arrais, Bernardete Ribeiro, Daniel Coutinho, Pedro Salgueiro, Luís Rato, José Saias, Vítor Nogueira</i>	UMa-R Room L	09:00 10:20

Friday, June 14		
Activity	Place	Time
<p>Fri2C – Parallel MLAiE'19 Special Session: “Machine learning applications in engineering – trends and best practice” Papers: #34, #97, #98, #123 Chairs: Katarina Žáková and Hélia Guerra Papers: #34 - Object detection with Raspberry Pi3 and Movidius Neural Network Stick <i>Andreas Pester, Michael Schrittester</i> #97 - A Biomedical Motif for Teaching Applied Deep Learning <i>James Wolfer</i> #98 - A Matlab Tool for Solving Linear Goal Programming Problems <i>Teresa Rocha, Ana Borges, Simão Paredes, André Pinho</i> #123 - Comparison of Deep Learning Architectures on Embedded Devices and Generalized Fixed-point Conversion Algorithm <i>Jan Steinbrener, Pratik Desai</i></p>	<p>UMa-R Room P</p>	<p>09:00 10:20</p>
<p>Coffee-break</p>	<p>UMa-R Room C</p>	<p>10:20 10:40</p>
<p>Fri3A – Parallel STIMHA'19 Special Session II: “Smart Technologies and Interactive Media for Health Applications” Papers: #23, #61, #69 Chairs: Karolina Baras and Sergi Badia #23 - Comparison of relaxation techniques in virtual reality for breast cancer patients <i>Silvia F. M. Pizzoli, Stefano Triberti, Dario Monzani, Ketti Mazzocco, Emanuela Kufel, Marta Porebiak, Gabriella Pravettoni</i> #61 - iACTwithpain - Online platform for helping Chronic Pain Patients <i>M. Rita Nogueira, Bruno Patrão, Paulo Menezes, Sérgio Carvalho, Paula Castilho</i> #69 - Musiquence: a framework to customize music and reminiscence cognitive stimulation activities for the dementia population <i>Luís Ferreira</i></p>	<p>UMa-R Room R</p>	<p>10:40 12:00</p>
<p>Fri3B – Parallel Session: “Serious Games, Gamification and Robotics” Papers: #56, #75, #84, #120 Chairs: Dragan Šešlija and Zorica Nedic Papers: #56 - Mixed Reality Games in Engineering Education <i>Anja Richert, Vanessa Mai, Hanna Mengen, Susanne Wolf</i> #75 - First steps in robotics using Crumble as a friendly platform <i>Pedro Plaza, Elio Sancristobal, German Carro, Manuel Castro, Manuel Blazquez, Félix García-Loro</i> #84 - An Adaptive Serious Game of Statistics: project development and mechanisms <i>Tiago Barbosa, Sérgio Lopes, Celina P. Leão, Filomena Soares, Vítor Carvalho</i> #120 - A Serious Game for Post-Stroke Motor Rehabilitation <i>Bruno Ferreira, José Lourenço, Paulo Menezes</i></p>	<p>UMa-R Room L</p>	<p>10:40 12:00</p>

Friday, June 14		
Activity	Place	Time
<p>Fri3C – Parallel Session: “Web based and Collaborative Approaches for Education” Papers: #66, #70, #82, #90 Chairs: Veronika Thurner and Milan Matijević Papers: #66 - Pendulum as an Educational Remote Experiment: Feasible guidelines for using the World Pendulum Alliance experiments network <i>Manuel J. Escobar, Horácio Fernandes, Orlando Allard, Yeni Erazo</i> #70 - Massive Open Online Labs (MOOLs): An Innovative Solution to Achieving SDGs in the Global South <i>Fariba Moghaddam, Aldo Vaccari, Thomas Moniquet, Christophe Salzmann, Yves Piguat, Samer Saab, Rayana Jaafar, Amir A. Suratgar, Qobad Shafiee, Nomaou Dan Lamso, Hassane A. Mayaki, Hassan A. Barkad, Hamadou S. Hassane, Denis Gillet</i> #82 - A pedagogical platform for metaheuristic optimization <i>Ana Filipa Mota, Amélia Loja</i> #90 - e-Engineering: Remote Labs in an Electronics and Optics e-Learning for Embedded Systems Course <i>Manuel Gericota, Paulo Ferreira, André Fidalgo, Guillaume Andrieu, Claire Dalmay</i></p>	<p>UMa-R Room P</p>	<p>10:40 12:00</p>
<p>Fri4 – Plenary Session IV: “You Are What You Breathe”, Mario Bochicchio (University of Salento, Italy) Chairs: Filipe Araújo and Frode Sandnes</p>	<p>UMa-R Room R</p>	<p>12:10 13:00</p>
<p>Lunch</p>	<p>UMa-R Room C</p>	<p>13:00 14:30</p>
<p>Fri5A – Parallel RADP’19 Special Session: “Remote and digital pneumatics: Learn and control from distance” Papers: #11, #16, #17, #22, #24, #71 Chairs: Mikulas Huba and João Carneiro Papers: #11 - Remote experiments with pneumatic circuit using a double rod cylinder <i>Paulo Abreu, M. Fátima Chouzal, Jacobo S. Valiente, Luis de La Torre, M. Teresa Restivo</i> #16 - Augmented Reality as an Advanced Learning Tool for Pneumatic Control <i>Brajan Bajči, Dražan Šešlija, Vule Reljić, Slobodan Dudić, Ivana Milenković, Jovan Šulc</i> #17 - Concept of remotely controlled digital pneumatic system in accordance with Industry 4.0 approach <i>Vule Reljić, Dražan Šešlija, Ivana Milenković, Brajan Bajči, Slobodan Dudić, Jovan Šulc</i> #22 - Mathematical Model of the Festo Terminal <i>Vladislav Blagojevic, Sasa Randjelovic, Predrag Jankovic</i> #24 - An Electro-pneumatic Prototype to Support the Teaching of Industry 4.0 Concepts <i>Miguel Francisco, Mário Mendes, João Calado</i> #71 - A Simulation Tool Using AI Technics and Karnaugh Maps for Learning and Control Digital Pneumatics <i>António F. Silva, Adriano A. Santos</i></p>	<p>UMa-R Room R</p>	<p>14:30 16:30</p>

Friday, June 14		
Activity	Place	Time
<p>Fri5B – Parallel AQM'19 Special Session II: “Air Quality Monitoring” Papers: #38, #41, #57, #72, #74, #77 Chairs: Jesus L. Rogado and Catarina Silva Papers:</p> <p>#38 - Air quality monitoring in scholar environments <i>Begoña Artiñano, Francisco J. Gomez-Moreno, Elias Diaz, Elisabeth Alonso-Blanco, Marcos Barreiro, Alfonso J. Fernandez, Alejandro Rubio, Javier Fernández, Ibai Figuera</i></p> <p>#41 - Field assessment of low-cost Particulate Matter sensors against reference methods <i>Elias Diaz Ramiro, Begoña Artiñano, Alejandro Rubio, Ibai Figuera, Marcos Barreiro, Javier Fernandez</i></p> <p>#57 - Measurement of PM10 and PM2.5 from Silice carbide particles with real time cascade impactor based on Surface Acoustic Wave <i>Virginie Blondeau-Patissier, Fatima Ezzahraa Dbibih, Meddy Vanotti, Valérie Soumann, William Daniau, Jean-Marc Cote, Lyes Djoumi</i></p> <p>#72 - Ga doped ZnO thin films deposited by RF sputtering for sub-ppm NO2 sensing <i>Lionel Presmanes, Vignesh Gunasekaran, Yohann Thimont, Inthuga Sinnarasa, Antoine Barnabe, Philippe Tailhades, Philippe Menini</i></p> <p>#74 - Evaluation of CoFe3-xO4 cobaltites as ethanol sensing material <i>Vignesh Gunasekaran, Lionel Presmanes, Inthuga Sinnarasa, Yohan Thimont, Thi M. C. Dinh, Antoine Barnabé, Phillippe Thailhades, Philippe Menini</i></p> <p>#77 - Low-Cost sensors for urban air quality monitoring: preliminary laboratory and in-field tests within the TECNARE-CM project <i>Begoña Artiñano, Adolfo Narros, Elías Diaz, Francisco J. Gómez, Rafael Borge</i></p>	<p>UMa-R Room L</p>	<p>14:30 16:30</p>
<p>Fri5C – Parallel ORBE'19 Special Session: “Online Resources in Biomedical Engineering” Papers: #20, #27, #46, #81, #117, #125 Chairs: Stela Dragulin and Denis Gillet Papers:</p> <p>#20 - Old Musical Instruments and Meloterapy <i>Doru Ursutiu, Cornel Samoila, Petrica Mihoc</i></p> <p>#27 - A Telemonitoring Solution Applied to Dynamic CVD Risk Assessment: LookAfterRisk <i>Simão Paredes, Jorge Henriques, Teresa Rocha, Paulo Carvalho, Daniel Oliveira, João Morais, Rita Carvalho, Catarina Ruivo</i></p> <p>#46 - Blood pressure measurement <i>Daniel Badran, Paulo Abreu, M. Teresa Restivo</i></p> <p>#81 - Few Perspectives and Applications of Emotion-Induced Music <i>Fulvia A. Constantin and Stela Dragulin</i></p> <p>#117 - Coherent Raman as standoff optical diagnostic for biomedical applications <i>Arthur Dogariu</i></p> <p>#125 - The Use of Music Therapy for Adults' Anxiety Relief <i>Stela Dragulin, Fulvia A. Constantin, Ioana Rucsanda</i></p>	<p>UMa-R Room P</p>	<p>14:30 16:30</p>
<p>Coffee-break</p>	<p>UMa-R Room C</p>	<p>16:30 16:50</p>

Friday, June 14		
Activity	Place	Time
Fri6 – Plenary Session V: “Towards Mixed Reality for Online Experimentation”, Alexander A. Kist (University of Southern Queensland, Australia) and Paulo Menezes (University of Coimbra, Portugal) Chairs: Susan Zvacek and James Wolfer	UMa-R Room R	16:50 17:50
Fri7 – Closing Session	UMa-R Room R	18:00 18:15
Move to the Gala Dinner by bus	UMa-R	19:30
Gala Dinner	“Adega da Quinta”	20:00

Saturday, June 15		
Activity	Place	Time
<i>Departure for the Madeira Tour by bus</i>	UMa-R	09:00
<i>Social Activity: Madeira Tour - Trip to different places on Madeira Island with lunch (at Santana)</i>	Madeira Island	09:00 17:00
<i>Social Activity: Musical Firework Show of the Atlantic Festival</i>	Funchal Marina	22:00