TEXTILE EMBEDDED SENSORS MATRIX FOR PRESSURE SENSING AND MONITORING APPLICATIONS FOR THE PRESSURE ULCER PREVENTION, Susana Pereira, Ricardo Simoes, Joana Fonseca, Joana Almeida and Ricardo Carvalho

DESIGN AND SIMULATION OF A CMOS SLEW-RATE ENHANCED OTA TO DRIVE HEAVY CAPACITIVE LOADS, Luis Miguel Carvalho Freitas, F. Morgado-Dias, Guy Meynants and Adi Xhakoni

ON-CHIP DIGITAL TEMPERATURE SENSOR FOR CMOS IMAGE SENSOR, Rúben Gomes, Paulo Franco and F. Morgado-Dias

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ES-Smart Cities

Chair: *Yuichi Kado*

Room: A2

NETWORK IMPACT OF RESIDENTIAL ENERGY MANAGEMENT SYSTEMS AT CITY SCALE, Pedro Miguel, Luís Neves and António Gomes Martins

MQTT SERVICE BROKER FOR ENABLING THE INTEROPERABILITY OF SMART CITY SYSTEMS, Anatolijs Zabasta, Nadezhda Kunicina, Kaspars Kondratjevs, Antons Patlins, Leonids Ribickis and Jerker Delsing

SUSTAINABLE PAVEMENT ENABLE TO PRODUCE ELECTRICITY FOR ROAD LIGHTING USING GREEN ENERGY, Antons Patlins, Andrii Hnatov, Shchasiana Arhun, Anatolijs Zabasta, Nadezhda Kunicina and Leonids Ribickis

FORECASTING THE USAGE OF APPLIANCES OF SHARED USE: AN ANALYSIS OF SIMPLICITY OVER COMPLEXITY, Florian Desraches, Oihane Kamara-Esteban, Diego Casado-Mansilla and Cruz E. Borges

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P5 - Applying Psychology to personal development

Chair: *Fátima Lobo*

Room: P

EDUCATION AND ATTACHMENT: DROPPING OUT SCHOOL FAILURE, Rosa Castro and Dora Isabel Pereira

SPIN PROJECT - A SOUTHERN EUROPEAN APPROACH TO THERAPEUTIC LIFE STORY WORK, Margarida Marques

PERSONALIZING PAPER-AND-PENCIL TRAINING FOR COGNITIVE REHABILITATION: A FEASIBILITY STUDY WITH A WEB-BASED TASK GENERATOR, Ana Lúcia Faria and Sergi Bermúdez i Badia

WELCOME ONBOARD THIS FLIGHT, Ana Maria Vieira

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15:40 - 16:30 Coffee Break

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16:30 - 17:50 <u>Parallel Sessions</u>

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E2-Electronic Applications

Chair: Susana Pereira

Room: A1

A SMART WIRELESS SYSTEM FOR MODELING VISUAL SEARCHING BEHAVIOR AND ASSESSING REACTION TIME IN SPORTS AND REHABILITATION ACTIVITIES, Ben Ali Boubaker and Éric Dugas

A SMART WIRELESS SYSTEM FOR MODELING VISUAL SEARCHING BEHAVIOR AND ASSESSING REACTION TIME IN SPORTS AND REHABILITATION ACTIVITIES, Ben Ali Boubaker and Éric Dugas

A VIDEO SURVEILLANCE SYSTEM FOR FIRE AND FLASH FLOODS DETEC-

NOSLEEP: LOW COST PROTOTYPE FOR DRIVER FATIGUE DETECTION, Fabio Dantas and Tiago Meireles

IMAGE DENOISE FPGA IMPLEMENTATION USING A MOVING AVERAGE FILTER WITH CONTOUR DETECTION, Ricardo Jardim and F. Morgado-Dias

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ES2-Management and Storage

Chair: *Lucas Pereira*

Room: A2

AN OVERVIEW OF THE SOLAR PV POLICY IN THE REGION OF MADEIRA, Daniel Pestana, Sandy Rodrigues and F. Morgado-Dias

THE DUCK CURVE CHARACTERISTIC AND STORAGE REQUIREMENTS FOR GREENING THE ISLAND OF PORTO SANTO, Roham Torabi, Alvaro Gomes and F. Morgado Dias

AUTONOMOUS DISTRIBUTED POWER NETWORK CONSISTING OF THREE-PORT POWER ROUTERS, Yuichi Kado

POWER INADEQUACY, THE THORN ON ECONOMIC GROWTH OF NIGERIA, W. S Ebhota and P. Y Tabakov

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P6 - Applied Psychology

Chair: *Dora Pereira*

Room: P

APPLIED PSYCHOLOGY AND COMPLEX SYSTEMS: COMMUNICATING SPECIALIZED KNOWLEDGE TO A NON SPECIALIZED AUDIENCE

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20:00 Conference Dinner

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WEDNESDAY, 11th of JULY

10:00 - 11:00 – <u>Plenary session</u>

Stability and Bifurcation in Discrete Dynamical Systems, Application to Competition Population Models

Prof. Rafael Luís

Room: A1+A2

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11:00 - 11:30 Coffee Break

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11:30 - 12:00 <u>Poster Sessions</u>

Room: Coffee Break Room

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12:00 - 12:30 <u>Awards and Closing Ceremony</u>

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12:30 - 14:00 <u>Break</u>

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14:30 - 18:00 <u>Social Event</u>

Institute of Knowledge and Development

International Conference on Knowledge Interplay for the Future KIF18

Funchal, 9 - 11 July 2018

- ♦ **International Conference on Energy and Sustainability in Small Developing Economies - ES2DE18**

- ♦ **International Conference on Biomedical Engineering and Applications - ICBEA18**

- ♦ **International Conference on Mathematical Applications – ICMA18**

- ♦ **International Conference on Applied Psychology and Human Behaviour - ICAP18**

PROGRAM

MONDAY, 9th of JULY

10:00 - 11:00 – Keynote Talk

Paraconsistent Annotated Logic Programs and its Application to Intelligent Control/Safety Verification - Prof. Kazumi NAKAMATSU

Room: A1+A2

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11:00 - 11:30 Coffee Break

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11:30 - 12:50 Parallel Sessions
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B1-Artificial Intelligence Applications

Chair: Antonio Ravelo

Room: A1

PROTOTYPE-BASED CLASSIFIER FOR AUTOMATIC DIAGNOSIS OF DEPRESSIVE MOOD, Stephane Cholet and Helene Paugam-Moisy

APPLICATIONS OF ARTIFICIAL NEURAL NETWORKS IN PROCESS CONTROL APPLICATIONS: A REVIEW, Alexander Kramer and F. Morgado-Dias

CONFIGURABLE N-FOLD HARDWARE ARCHITECTURE FOR CONVOLUTIONAL NEURAL NETWORKS, Dario Baptista, Leonel Sousa and F. Morgado-Dias

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P1-Group discussion: Sharing Experiences on Applied Psychology

Chair: Dora Pereira

Room: P

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12:50 - 14:20 Lunch Break

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14:20 - 16:00 Parallel Sessions
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B2-Biomedical Applications

Chair: Antonio Ravelo

Room: A1

SLEEP QUALITY ANALYSIS WITH CARDIOPULMONARY COUPLING, Fábio Mendonça, Sheikh Mostafa, F. Morgado-Dias and Antonio Ravelo-García

AUTOMATIC CALIBRATION OF THE DECEIVED NON LOCAL MEANS FILTER FOR IMPROVING THE SEGMENTATION OF CELLS IN FLUORESCENCE BASED MICROSCOPY, Saul Ramirez, Joel Barrantes, Joel Schuster, Mauro Mendez and Jakub Begera

SCATTERING BEHAVIOR ANALYSIS FOR UWB ANTENNA IN THE VICINITY OF HETEROGENEOUS BREAST TISSUES, Khondker Jahid Reza, Sheikh Shanawaz Mostafa, Mahamudul Hassan Milon, Sabira Khatun and Mohd Faizal Jamlos

HYBRID BRAIN COMPUTER INTERFACE HYBRID-BCI FOR MOVEMENT CONTROL OF UPPER LIMB PROSTHESES, Heba Aly, Sherin Youssef and Cherine Fathy

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P2 -Workshop -Therapeutic Life Stories - I

Chair: Margarida Marques

Room: P

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16:00 - 16:30 Coffee Break

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16:30 - 17:50 Parallel Sessions
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MA1-Optimization and Mathematical Theory

Chair: *Krzysztof Ostaszewski*

Room: A1

EFFICIENT USE OF PARALLEL PRNGS ON HETEROGENEOUS SERVERS, André pereira, António Onofre and Alberto Proenca

AN APPROACH OF NON-CYCLIC NURSE SCHEDULING PROBLEM, Svetlana Simić, Dragan Simić, Dragana Milutinović and Svetislav d. Simić

FAKE P-VALUES AND MENDEL VARIABLES: TESTING UNIFORMITY AND INDEPENDENCE, Maria de Fátima Brilhante, Sandra Mendonça, Dinis Pestana, Maria Luísa Rocha, Fernando Sequeira and Sílvio Velosa

SOME KY FAN TYPE INEQUALITIES ON TIME SCALES, Cristian Dinu, Daniela Danciulescu and Alexandru Tugui

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P3 - Workshop-Therapeutic Life Stories- II

Chair: Margarida Marques

Room: P

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18:00 - 19:00 Welcome Cocktail

Town Hall Honors Room

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TUESDAY, 10th of JULY

10:00 - 11:00 – Keynote Talk

Advanced Mathematics for Designing IoT System

Prof. Ari AHARARI

Room: A1+A2

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11:00 - 11:30 Coffee Break

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11:30 - 12:50 Parallel Sessions
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MA2-Modelling

Chair: *Alberto Proença*

Room: A1

A NEURAL NETWORK BASED APPROACH FOR APPROXIMATING REAL ROOTS OF POLYNOMIALS, Diogo Freitas, Luiz Guerreiro Lopes and F. Morgado-Dias

COMPARING MODEL PERFORMANCES APPLIED TO FALL DETECTION, Samad Barri Khojasteh, José Ramón Villar, Enrique de la Cal, Victor M. González and Camelia Chira

MODELS FOR OPTIMIZATION DECISION OF CAPITAL AND INVESTMENT STRATEGY OF LIFE INSURER WITH STOCHASTIC ASSETS AND LIABILITIES, Hong Mao and Krzysztof Ostaszewski

THE ORIGIN-DESTINATION MATRIX ESTIMATION FOR LARGE TRANSPORTATION MODELS IN AN UNCONGASTED NETWORK, František Kolovský, Jan Ježek and Ivana Kolingerová

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ES1-Management and Storage

Chair: *Anatolijs Zabasta*

Room: A2

DISTRIBUTED ELECTRIC ENERGY STORAGE: WHICH PERSPECTIVE?, José Gonçalves, Luís Neves and António Gomes Martins

STUDY OF A WATER-ENERGY INTEGRATED SYSTEM: CHALLENGES OF PROTOTYPING, Ana Silva, Fernando Santos, António Espírito-Santo, José Páscoa Marques and Cristina Fael

ADDRESSING THE DESIGN STAGES OF AN UNDERGROUND ENERGY HARVESTING SYSTEM FROM THE UNCONVENTIONAL SOURCE OF STREET MOVING VEHICLES, Yazan Okkeh, Bashar Masoud and Majd Batarseh

ELECTRO MOBILITY IN PANAMA: A REVIEW, Jessica Guevara-Cedeño, Jairo Aguilar, Roham Torabi and Aranzazu Berbey-Alvarez

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P4 - Applying Psychology in professional development

Chair: *Ana Lúcia Faria*

Room: P

A FRAMEWORK FOR STAKEHOLDER ENGAGEMENT FOR DEVELOPING SUSTAINABLE BEHAVIOUR RESEARCH: A LAKE VICTORIA CASE STUDY, Karlijn van den Broek

COMPASSION FATIGUE AND SATISFACTION FOR COMPASSION: THREATS TO THE QUALITY OF LIFE IN PORTUGUESE VETERINARIES, Fátima Lobo

COLLABORATIVE LEARNING: LEADERS' SELECTION METHOD AND TEAM PERFORMANCE, Dulce Pacheco and Luisa Soares

EVOLUTION OF CULTURAL INTELLIGENCE IN STUDENTS WORKING IN MULTI-NATIONAL TEAMS: A CASE-STUDY, Dulce Pacheco and Scott Stevens

THE IMPACT OF INNOVATION AND ENTREPRENEURSHIP ON COMPETITIVENESS, Cristina Fernandes, Pedro Veiga and João Ferreira

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12:50 - 14:20 Lunch Break

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14:20 - 15:40 Parallel Sessions
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E1-Electronic Applications

Chair: Tiago Meireles

Room: A1