CONFERENCE PROGRAM

IMPORTANT NOTICE: listed times are in GMT+0 (Lisbon Time), you can check your timezone at https://greenwichmeantime.com/time-zone/gmt-plus-0/ (you can use the provided URL to insert your location and see your time in relation to GMT+0).

**Wednesday 18th, November 2020**

10:45-11:00 Session O – Opening Session

**OPENING SESSION**

Prof. Pedro Isaías and Hans Weghorn

11:00-12:30 Session FP 18.1
Web Services/SaaS // Cloud/Grid Computing

Chair: Sara Santos

**DYNAMICALLY PRIORITIZED VIRTUAL-NETWORK MONITORING ACCORDING TO LIFECYCLE OF VIRTUAL MACHINES IN LARGE SCALE DATA CENTER (F081)**

Hideki Okita, Hayato Hoshihara, Norihisa Komoda and Toru Fujiwara

**A BOT-ENABLED APPROACH FOR WEB SERVICE DISCOVERY (F023)**

Bahareh Zarei, Mahda Noura and Martin Gaedke

**THE APPLICATION OF BLOCKCHAIN TECHNOLOGY IN LOYALTY PROGRAMS (F100)**

Valerio Stallone, Anja Collenberg, Andreas Ruedlinger, Martin Wetzels and Michael Klaas

12:30-14:00 Lunch Break

14:00-15:00 Session KL – Keynote Presentation

“YOU CANNOT PREDICT ELECTORAL RESULTS USING SOCIAL MEDIA (BUT/BECAUSE SOCIAL MEDIA MAY CHANGE THE RESULTS)”

Professor Panagiotis Takis Metaxas, Professor and Chair of Computer Science Department, Wellesley College, USA

15:00-16:00 Session FP 18.2
Cloud/Grid Computing

Chair: Valerio Stallone

**A SURVEY ON THE STATE OF CLOUD ADOPTION IN MICRO & SMALL BRAZILIAN IT COMPANIES (F078)**

Gabriel Costa Silva, Cesar Giovanni Colim and Elizandro Ferreira

**CONTINUOUS INTEGRATION OF FAAS DRIVEN BY QUALITY ATTRIBUTES (D025)**

Pablo Serrano-Gutierrez

16:00-16:15 Coffee Break
16:15-18:35 Session FSP 18.3
Social Networks // e-Society
Chair: Mário Rodrigues

THE MAIN ROLE OF VIDEO ADS’ STRUCTURE ON SOCIAL MEDIA ENGAGEMENT (F118)
Sónia de Almeida Ferreira, Sara Santos and Pedro Espírito Santo

THE IMPACT OF SOCIAL MEDIA CONSUMPTION ON CULTURAL INTELLIGENCE OF USER (F126)
Petra Zecevic, Lana Miletic and Ljerka Luic

USE OF WEB 2.0 IN CULTURAL HERITAGE (S084)
Lola García-Santiago and María Dolores Olera-Lobo

DIGITAL HEALTH AND ILLNESS: BALANCING IT (R074)
António Bandeira and Henrique Martins

A NEW PERSPECTIVE ON THE ISSUE OF PRIVACY: COVID-19 PANDEMIC VS PRIVACY (R098)
Adewale Adegoroye, Marc Conrad and Xiaohua Feng

16:15-18:05 Session FSP 18.4
Algorithms // Data bases and data mining // Other
Chair: George Lagogiannis

DYNAMIC CONNECTIVITY: THE STAR AND THE TREE STORY (F043)
George Lagogiannis

SPECIFICS OF IMPLEMENTING A HYBRID INTELLIGENT IMAGE GEOREFERENCING SYSTEM (S088)
Dmitry V. Berezhkin, Andrew V. Proletarsky, Nadezhda A. Sukhorukova and Raslan A. Kamalov

HIERCHTICAL METRICS FOR COMPUTING THE MINIMUM NUMBER OF TEST PATHS IN CONTROL-FLOW GRAPHS (F084)
Ronald Salloum

Thursday 19th, November 2020

10:00-11:00 Session KL2 – Keynote Presentation
ARTIFICIAL INTELLIGENCE TO SUPPORT INTELLIGENT SOCIETY (THE JOURNEY FROM INDUSTRY 0.0 TO 4.0)
Professor Dhiya Al-Jumaily, Professor of Artificial Intelligence/ IEEE Senior Member, Faculty of Engineering and Technology, Liverpool John Moores University, UK

11:00-11:05 Coffee Break

11:05-12:45 Session FSP 19.1
e-Government // e-Commerce / e-Business
Chair: Maria Madlberger

THE IMPACT OF CHANGING THE GRANULARITY OF PREFERENCE-INTENSITY INFORMATION ON THE ONLINE COMPENSATION ELECTION (F018)
Roumen Vragov and Nanda Kumar

OUTCOMES OF AN EXPERT SURVEY: ARE SINGAPORE’S MANUFACTURING SMALL AND MEDIUM ENTERPRISES READY TO EMBRACE INDUSTRY 4.0? (F103)
Gopalakrishnan Sureshnan and Thomas Mentzloff

RAISING THE VOICE: EXPLORING ANTECEDENTS OF VOICE-ACTIVATED ASSISTANT USAGE INTENTION (S108)
Maria Madlberger and Jacqueline O’Neill

PARTICIPATORY GOVERNABILITY UNDER DEVELOPMENT: THE INSTITUTION OF CITIZEN PARTICIPATION AS THE BASIS FOR THE DESIGN OF THE “GOVERNMENT AS A PLATFORM” IN DEVELOPING COUNTRIES (S116)
Kirill Neverov

12:45-14:00 Lunch Break
14:00-16:00 Session FP 19.2
Data Mining // Information Retrieval
Chair: Kurt Englmeier

SOFTWARE CATALOGUE FOR SCIENTIFIC CONTEXT EXPLICTION (F041)
Olga Kononova, Dmitry Prokudin and Angelina Timofeeva

AN NVME FPGA-BASED SMART SWITCH ARCHITECTURE WITH ONLINE RECONFIGURATION (F068)
Vinícius G. Linden, Cassiano S. Campes, Lúcio R. Prade, Bruna F. Flesch and Rodrigo M. de Figueiredo

PERSONALIZED WEB SEARCH USING KEY PHRASE-BASED USER PROFILES (F022)
Sara Abri, Rayan Abri and Salih Cetin

IDENTIFYING DIFFICULTIES IN THE KNOWLEDGE TRANSFER PROCESS IN GLOBAL SOFTWARE: A QUALITATIVE ANALYSIS (F092)
Franciney O. Lima, Victoria Carolina S. Mattos, Raquel F. V. Cunha, Alexandre S. Teixeira, Marcelo S. Ayres, Luis H. Pascareli, Fernando B. Pires and Bruno A. Bonifácio

13:50-16:00 Session FSP 19.3
Information Systems // Other
Chair: Anabela Moreira Bernardino

EXPLORING THE ROLE OF DATA ANALYTICS IN ENHANCING THE STUDENT EXPERIENCE (F074)
Imaan Faker and Mmaki Jantjies

REGIONAL GROSS DOMESTIC PRODUCT PREDICTION USING TWITTER DEEP LEARNING REPRESENTATIONS (F080)
Javier Ortega-Bastida, Antonio-Javier Gallego, Juan Ramón Rico-Juan and Pedro Albarrán

SEMANTIC TAGGING OF REQUIREMENT DESCRIPTIONS: A TRANSFORMER-BASED APPROACH (S029)
Joschka Kersting and Frederik S. Bäumer

BLOCKCHAIN BASED CROSS ORGANIZATIONAL WORKFLOW MANAGEMENT SYSTEM (F071)
Hirofumi Nagano, Taku Shimosawa, Atsushi Shimamura and Norihisa Komoda

CLOUD-BASED NLP IN VIRTUAL REALITY (S022)
Andrew Miller and Stavros Kalafatis

16:00-16:15 Coffee Break

16:15-18:25 Session SP 19.4
e-Learning
Chair: Maria Madlberger

TOWARDS A CONCEPT FOR STREAMLINING GAME DESIGN OF AN EXISTING SERIOUS GAME AND PRELIMINARY EVALUATION (S104)
Daniel Atoor, Ehm Kannegieser and Marlene Dillig

AN E-TUTOR TOOL FOR GRAMMATICAL ERROR CORRECTION (S110)
Xiaodong Sun, Yanqin Yin, Huanhuan Lv, Pikun Wang, Hongwei Ma and Dongqiang Yang

16:00-16:15 Session FSP 19.5
Intelligent systems // Mobile computing // Other
Chair: Joschka Kersting

USING NATURAL LANGUAGE PROCESSING TO DETECT URBAN PROBLEMS FOR GOVERNANCE (F093)
Jing Li, Chunhua Cao, Yue Luo, Xiaobo He, Xian Liu, Yuhai Jia, Xianfeng Jin, Sha Wang, Jiaying Ran, Xin Su, Yuxuan Zhong, Qiuhan Zhao, Zifu Wang and Megan Rice

APPLY EDGE INTELLIGENCE TO IOT BASED HOME AUTOMATION (S081)
Yi Hua Wu and Hongli Luo

CROSS-PLATFORM DEVELOPMENT FOR E-COMMERCE (S095)
Leandro Vieira, Anabela Bernardino and Eugénia Bernardino

THE DEMOGRAPHIC GAP IN CONFERENCE COMMITTEES (F056)
Omar Saliman, Susan Gauch, Mohammed Alqubatani and Mohammed Ibrahim

CXPRESS: A NOVEL CUSTOMER EXPERIENCE ANALYTICS TOOL (F041)
Ioannis Rallis, Ioannis Markoulidakis, George Kopsiatis, Nikolaos Doulamis, Anastasios Doulamis, Michael Sfakianos and Kostis Tsanetis
**Friday 20th, November 2020**

08:50-10:45 Session FSP 20.1  
Industry 4.0 // Virtual Reality  
*Chair: Hans Weghorn*

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10:45-11:00 Break

11:00-12:30 Session FSP 20.2  
Applications of Semantic Web // Ontologies  
*Chair: Hans Weghorn*

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12:30 Best Paper Awards Ceremony and Closing Session  
*Profs. Pedro Isaias and Hans Weghorn*