

19th International Conference WWW/Internet 2020
17th International Conference on Applied Computing 2020

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

Profs. Pedro Isaiás 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 Colini 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 Olivera-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 Adegoro, Marc Conrad and Xiaohua Feng

COMBINING DISTRIBUTED AND CENTRALISED APPROACHES TO DEVELOP A HYBRID METHODOLOGY FOR DATA MANAGEMENT IN HEALTHCARE (F082)

Christos Kontzinos, Panagiotis Kapsalis, Spiros Mouzakitis, Michael Kontoulis, Ourania Markaki, Dimitris Askounis, Haralampos Karanikas, Alexandros Christodoulakis and Panagiotis Dimitrakopoulos

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. Berezkin, Andrew V. Proletarsky, Nadezhda A. Sukhorukova and Ruslan A. Kamalov

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

Ronald Salloum

A NEW PARALLEL HYBRID MULTIOBJECTIVE ANT COLONY ALGORITHM BASED ON OPENMP (F063)

Imen Ben Mansour, Ines Alaya and Moncef Tagina

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-Jumeily, 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 Surianarayanan and Thomas Menkhoff

RAISING THE VOICE: EXPLORING ANTECEDENTS OF VOICE-ACTIVATED ASSISTANT USAGE INTENTION (S108)

Maria Madlberger and Jacquelyn 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 EXPLICATION (F041)
Olga Kononova, Dmitry Prokudin and Angelina Timofeeva
AN NVME FPGA-BASED SMART SWITCH ARCHITECTURE WITH ONLINE RECONFIGURATION (F068)
Vinicius 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. Bäumler
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

16:15-16:55 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 Atorf, 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

16:15-18:25 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, Yahui Jia, Xianfeng Jin, Shu Wang, Jiying Run, 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 Salman, Susan Gauch, Mohammed Alqahatani and Mohammed Ibrahim
CXPRESS: A NOVEL CUSTOMER EXPERIENCE ANALYTICS TOOL (F041)
Ioannis Rallis, Ioannis Markoulidakis, George Kopsiaftis, Nikolaos Doulamis, Anastasios Doulamis, Michael Sfakianos and Kostis Tzanettis

Friday 20th, November 2020

08:50-10:45 Session FSP 20.1

Industry 4.0 // Virtual Reality

Chair: Hans Weghorn

GAM-APT: A SERIOUS GAME ATTRIBUTE TAXONOMY FOR ADVANCED PERSISTENT THREATS (F058)

Mathew Nicho

IDLE MOTION SYNTHESIS OF HUMAN-LIKE THREE-DIMENSIONAL AGENT FOR THE HMI SYSTEMS (F052)

Maja Kocoń

A CONCEPT OF ENABLING DATA CONSISTENCY CHECKS BETWEEN PRODUCTION AND PRODUCTION PLANNING USING AI (S077)

Emilia Gelwer, Jens Weber and Frederik S. Bäumer

EVALUATING TESTER EXPERIENCE IN AN INDUSTRIAL ENVIRONMENT: AN EXPERIENCE REPORT (S087)

Camila Bernardon, Oswald M. Ekwoge, Thais E. Colares, Bruno A. Bonifacio, Thiago L. Souto, Marcelo A. Reis, Andre S. Neto and Awdren de Lima Fontão

DATA CONSISTENCY FROM PRODUCTION TO PRODUCTION PLANNING USING AI. AN INSIGHT. (P040)

Emilia Gelwer, Jens Weber and Frederik S. Bäumer

10:45-11:00 Break

11:00-12:30 Session FSP 20.2

Applications of Semantic Web // Ontologies

Chair: Hans Weghorn

ASSESSING JOB MARKET DYNAMICS USING ELK STACK (F121)

Gabriel Silva, Mário Rodrigues, Marlene Amorim, Angélica Souza, Marta Dias and Armando Pinho

GETTING CLOSER TO THE THINGS WE ARE LOOKING FOR – A PROPOSAL FOR ASPECT-DRIVEN TEXT ANALYSIS (F077)

Kurt Englmeier and Matthias Schneider

ONTOLOGY-BASED HUMAN-MACHINE COLLECTIVE INTELLIGENCE ENVIRONMENT FOR DECISION SUPPORT (F089)

Alexander Smirnov and Andrew Ponomarev

12:30 Best Paper Awards Ceremony and Closing Session

Profs. Pedro Isaías and Hans Weghorn