CONFERENCE PROGRAM

IMPORTANT NOTICE: listed times are in GMT+1 (Lisbon Time), you can check your timezone at https://greenwichmeantime.com/time-zone/gmt-plus-1/ (you can use the provided URL to insert your location and see your time in relation to GMT+1).

Wednesday 13th, October 2021

11:15-11:30 Session O – Opening Session

OPENING SESSION
Prof. Pedro Isaías and Hans Weghorn

11:30-12:30 Session KL – Keynote Presentation

BLOCKCHAIN TECHNOLOGY AS A FOUNDATION FOR A FUTURE WEB
Professor Bebo White, Department Associate (Emeritus), SLAC National Accelerator Laboratory/Stanford University at Menlo Park, California, USA

12:30-14:00 Lunch Break

14:00-14:45 Session FP 13.1
Applications and Uses
Chair: Henri Emil Van Rensburg

SAASPORT MODEL: EXPLORING PROTOCOL PORTABILITY, RESOURCE ELASTICITY AND MICROSERVICE ARCHITECTURE IN THE EFFICIENT EXECUTION OF IOT (F028)
Maria Gisele Flores da Silveira, Wagner da Silva Silveira, Rodrigo da Rosa Righi, Cristiano André da Costa and Dalvan Grieble

TRANSPARENCY IN SPANISH TOWN COUNCIL WEBSITES: A STUDY OF MUNICIPALITIES WITH BETWEEN 5001 AND 10,000 INHABITANTS (F021)
Antonio Muñoz-Cañavate, Melisa Pérez Cebaduro and María José Tena Mateos

14:00-15:00 Session FP 13.2
Security and Privacy
Chair: Joschka Kersting

SELECTIVE PRIVACY IN IOT SMART-FARMS FOR BATTERY-POWERED DEVICE LONGEVITY (F015)
Steph Rudd and Hamish Cunningham

EXPLORING SQL INJECTION VULNERABILITIES USING ARTIFICIAL BEE COLONY (F057)
Kevin Baptista, Anaíla Bernardino and Eugénia Bernardino

15:00-16:00 Session KL – Keynote Presentation

FROM EDGE VIDEO ANALYTICS TO FEDERATED LEARNING
Professor Dr. Ling Liu, School of Computer Science, Georgia Institute of Technology, USA
16:00-16:15 Coffee Break
16:15-18:05 Session FSRP 13.3
Information Retrieval // Data Analytics and Machine Learning
Chair: Maria Madlberger

**DEVELOPMENT OF A FOCUSED WEB PAGE CRAWLER BASED ON GENRE AND CONTENT (F050)**
Marcos Trajano Alves Junior, Marcos Felipe Pontes Recende and Gailherme Tavares de Assis

**GRAPH BASED TEMPORAL AGGREGATION FOR VIDEO RETRIEVAL (F049)**
Aprameya Bharadwaj, Arvind Srivivasan, Aveek Saha and Subramaniam Natarajan

**A SYSTEMATIC REVIEW ON THE IMPLEMENTATION OF BUSINESS INTELLIGENCE AT FEDERAL UNIVERSITIES (F051)**
Lola Thaigo Rizzi Santos, Marcos Wagner S. Ribeiro, Weuler Borges Santos, Lucas Rodrigues Costa and Carlos Gabriel S. Stédile

**ASSESSING THE INCONSISTENCY IN ONLINE NEWS (S034)**
Honour Chika Nwagwu, Gay Pascal Kibuh, Hycuinline Agezie Enwe and Stanley Abbadiomhen

**GENOMIC DATA ANALYSIS: CONCEPTUAL FRAMEWORK FOR THE APPLICATION OF ARTIFICIAL INTELLIGENCE IN PERSONALIZED TREATMENT OF ONCOLOGY PATIENTS (R026)**
Renata Kelemenic-Drazin and Ljerka Luic

16:15-17:50 Session FSRP 13.4
Evaluation and Assessment // Other
Chair: Anabela Moreira Bernardino

**ESTIMATING CONTAMINATION RISK USING ARTIFICIAL INTELLIGENCE MODELS. A CASE OF THE PATIÑO AQUIFER, PARAGUAY (F059)**
Eliane H. Fernández, Liz Baez, Miguel Garcia-Torres, Juan Pablo Nogués and Cynthia Villaalba

**IMPROVING THE PERFORMANCE OF BIGBLUEBUTTON FOR TEACHING ONLINE COURSES (F017)**
Christian Ulh and Bernd Freisleben

**EVALUATION OF NAMED ENTITY RECOGNITION FOR THE GERMAN E-COMMERCE DOMAIN (S027)**
Sergej Denisov and Frederik S. Bäumer

**VALIDITY CHECKING OF PROVENANCE DATA FROM SOFTWARE DEVELOPMENT PROCESSES (R042)**
Marcela Gomes Pinheiro and Gabriella Castro Barbosa Costa

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**Thursday 14th, October 2021**

09:45-10:45 Session SP 14.1
Performance
Chair: Sergej Denisov

**COST REDUCTION ESTIMATION METHOD OF A SOFTWARE VULNERABILITY MANAGEMENT TOOL (S054)**
Satoshi Yashiro, Pranay Verma, Norihisa Komoda and Takenao Ohkawa

**OPTIMISING THE PERFORMANCE OF TELECOMMUNICATION BULK EXPORT USING A MACHINE LEARNING CLOSED LOOP SYSTEM BASED ON HISTORIC PERFORMANCE (S025)**
Barbara Conway, John Francis and Enda Fallon

**APPLICATION DEVELOPMENT FOR MUSIC RECOMMENDATION SYSTEM USING DEEP DETERMINISTIC POLICY GRADIENT (S061)**
Rathin S. Kamble, Sujala D. Shetty and Aljo Jose

10:45-11:00 Coffee Break

11:00-12:30 Session FSP 14.2
Web 2.0 // Human Computer Interaction and Usability
Chair: Honour Nwagwu

**THAI IMMIGRANTS’ PERCEPTIONS AND ATTITUDES TOWARDS SOCIAL MEDIA USE IN CHINESE LEARNING IN TAIWAN (F046)**
Nalapaa Honsapun and Chao-Chen Chen

**IMPROVING KNOWLEDGE MANAGEMENT USING WIKI TOOL THROUGH EXPERIMENTAL STUDIES (F039)**
Bruno A. Bombaio, Raquel Camha, Franciney Lima, Luis H. P. Albuquerque, Marcelo S. Ayres, Fernanda Souza, Ana M. Moreno and Erika S. Maniz

**DIALOGBOOK2: AN IMPROVEMENT OF E-PORTFOLIO SYSTEM FOR INTERNATIONAL COMMUNICATION LEARNING (S068)**
Jun Iio, Shigenori Wakabayashi and Junji Sakurai

**PARTIAL RESULTS OF A REVIEW OF SURVEY METHODS MEASURING E-PRIVACY CONCERNS (P033)**
Anders Maitre, Magnus England and Vanessa Ayres-Pereira

12:30-14:00 Lunch Break
14:00-16:15 Session FP 14.3
Fundamental Concepts and Engineering
Chair: Rodrigo Righi

A DATA-DRIVEN STUDY OF CITIZEN SCIENCE DATA QUALITY ASSESSMENT PROFILE (F038)
Jailson N. Leocadio and Antonio M. Saravia

EVALUATING YONA LANGUAGE (F034)
Adam Kővári, Alexander Meduna and Zbyňek Křivka

FEASIBILITY STUDY AND EMPIRICAL ANALYSIS OF A LOW-COST FINGERPRINT RECOGNITION FOR IMMUNIZATION TRACING (F064)
Esther Mukoya, Richard Rimiris and Michael Kimwele

PARALLEL BACKTRACKING FOR THE STUDY OF THE HYDROPHOBIC-POLAR MODEL (F082)
Ioan Sima and Daniela-Maria Cristea

TOWARDS PROGRAMMING WITH FIRST-CLASS PATTERNS (R051)
Lutz Hamel, Timothy Colaneri, Ariel Finkle and Oliver McLaughlin

Friday 15th, October 2021

09:25-10:45 Session FSP 15.1
Automation of Services // Other
Chair: Joschka Kersting

PERSONAL GREENHOUSE MONITORING WITH THE AID OF THE INTERNET OF THINGS ACROSS CONTINENTS (F079)
Richard A. Teunen and Henri E. van Rensburg

AN AUTOMATED PARALLEL COMPATIBILITY TESTING FRAMEWORK FOR WEB-BASED SYSTEMS (F022)
Yelisson Chicas and Stephane Maag

IN OTHER WORDS: A NAIVE APPROACH TO TEXT SPINNING (S026)
Frederik S. Bäumer, Joschka Kersting, Sergej Denisov and Michaela Geierhos

10:45-11:00 Break

11:00-13:00 Session FP 15.2
Applications and Uses
Chair: Maria Madlberger

IMPACT OF PROMOTIONAL SOCIAL MEDIA CONTENT ON CLICK-THROUGH RATE – EVIDENCE FROM A FMCG COMPANY (F059)
Maria Madlberger and Jiri Jizdny

USING NEURAL MACHINE TRANSLATION FOR DETECTING AND CORRECTING GRAMMATICAL ERRORS (F069)
Dongqiang Yang, Xiaodong Sun and Pikun Wang

FINDING SYNONYMS IN A SYNTACTICALLY CONSTRAINED VECTOR SPACE MODEL (F075)
Dongqiang Yang, Xiaodong Sun and Pikun Wang

BUILDING A SEARCH-BASED ARCHITECTURE TO ENHANCE PRODUCT CERTIFICATE VERIFICATION AND REDUCING COUNTERFEIT (F023)
Eduard Daoud and Martin Gaedke

13:00 Best Paper Awards Ceremony and Closing Session
Profs. Pedro Isaias and Hans Weghorn