

**16<sup>th</sup> International Conference on WWW/Internet (ICWI)  
&  
14<sup>th</sup> International Conference on Applied Computing (AC)  
2017**

**Vilamoura, Algarve, Portugal**

**CONFERENCE PROGRAM**

**Wednesday 18<sup>th</sup>, October 2017**

**08:30-19:00 Welcome Desk**

**11:30-11:45 Session O – Opening Session  
(Room Tejo 1)**

**OPENING SESSION**

*Profs. Pedro Isaias and Hans Weghorn*

**11:45-12:45 Session KL1 – Keynote Presentation  
(Room Tejo 1)**

**MAKING THE FUTURE A BETTER PLACE TO LIVE IN**

*by Professor Paulo Ferreira, Department of Computer Science and Engineering, IST – Técnico Lisboa, Portugal*

**13:00-14:15 Lunch Break**

**14:15-15:20 Session FSRP 18.1**

**Data Mining**

**(Room Tejo 1)**

**Chair: Hans Weghorn**

**A STUDY TO CLASSIFY HOSPITAL ACQUIRED COMPLICATIONS BASED ON ELECTRONIC HEALTH RECORD:  
THE PREPROCESSING PHASE (F097)**

*Denise Bandeira da Silva, Taís Rabello, Cristiano André da Costa, Diogo Schmidt and Rodrigo da Rosa Righi*

**EXPLORING DATA USE TO IMPLEMENT E-GOVERNMENT IN HIGHER EDUCATION A CASE STUDY (S105)**

*Diego Buenaño-Fernández, Sergio Luján-Mora and W. Villegas-Ch*

**INDICATORS FOR THE EVALUATION OF TECHNOLOGICAL ACTIVITY (R077)**

*Alexandre Lucas, Birger Larsen, Angel Freddy Godoy Viera and Elías Sanz Casado*

**14:30-16:20 Session FSP 18.2**

**e-Health**

**(Room Lima)**

**Chair: Geíza Da Silva**

**ROLE-BASED ACCESS CONTROL FOR CLOUD COMPUTING REALIZED WITHIN HAPI FHIR (F038)**

*Mohammed Baihan, Steven Demurjian, Yaira Rivera Sanchez, Adam Toris, Amy Franzis, Angela Onofrio,*

*Geoffrey Cheng and Thomas Agresta*

**AN EARLY WARNING SEMANTIC-BASED MODEL FOR EMERGENCY DEPARTMENTS (F082)**

*Guilherme Wunsch, Cristiano André da Costa and Rodrigo da Rosa Righi*

**INTEGRATION BETWEEN ELECTRONIC HEALTH RECORDS STANDARDS USING ONTOLOGIES AND RULES  
(F090)**

*Matheus Henrique Wichman, Cristiano André da Costa, Alex Roehrs, Denise Bandeira and Rodrigo da Rosa Righi*

**USING INFORMATION TECHNOLOGY TO ACCESS MEDICAL EMERGENCY INFORMATION WORLDWIDE  
(S066)**

*Judith Born, Michael Storck, Jan Wohlmann, Sarah Krudwig, Alexander Vogel and Christian Juhra*

**15:30-16:30 Special Talk  
(Room Tejo 1)**

**IPv6-BASED NEW INTERNET**

*by Dr. Latif Ladid, Founder & President of the IPv6 Forum, Luxembourg*

**16:30-17:00 Coffee Break**

**17:00-18:30 Session FP 18.3**

**Networking // Multimedia // Other**

**(Room Tejo 1)**

*Chair: Andre Constantino Da Silva*

**ZERO COPY SERIALIZATION USING RMA IN THE HPX DISTRIBUTED TASK-BASED RUNTIME (F021)**

*John Biddiscombe, Anton Bikineev, Thomas Heller and Hartmut Kaiser*

**INTERNET VOTING USING ZCASH (F024)**

*Pavel Tarasov and Hitesh Tewari*

**TRAJECTORIES COMPARING BASED ON MATCHING AND DISTANCE EVALUATION WITHIN STIEFEL AND GRASSMANN MANIFOLDS (F042)**

*Amani Elaoud, Walid Barhoumi, Hassen Drira and Ezzeddine Zagrouba*

**17:00-19:05 Session FSP 18.4**

**Human Computer Interaction and Usability // e-Learning**

**(Room Lima)**

*Chair: Darius Zumstein*

**AN ANALYSIS OF INTERNET OF THINGS TECHNOLOGIES FOCUSED IN SMART HOMES (F103)**

*Renato Garcés, Jorge L. Rosero and Ángel Jaramillo-Alcázar*

**A SURVEY ON ICT USAGE IN EDUCATION IN ANGOLA HIGH POLYTECHNICAL SCHOOL (F052)**

*Adelina Aleksieva-Petrova, Amoussou Dorothee and Milen Petrov*

**SOCIABILITY IMPACT ON LEARNER'S PERSONALITY IN CLASSROOM AND E- LEARNING ENVIRONMENTS:**

**A COMPARATIVE ANALYSIS (F080)**

*Abdul Saboor, M. Irfanullah Arfeen and Wahbeeah Mohti*

**A COLLABORATIVE LEARNING ENVIRONMENT BASED ON THE SEMANTIC WEB PRINCIPLES (S030)**

*Adriano Ferraz da Costa, Cedric Luiz de Carvalho and Deller James Ferreira*

**E-LEARNING AS A STRATEGY FOR IMPLEMENTATION OF PUBLIC POLICIES (P072)**

*Juliana Macedo Reis Mercês and Marcia Maria Pereira Rendeiro*

**19:15-19:45 Welcome Cocktail (for registered participants)**

## Thursday 19<sup>th</sup>, October 2017

08:30-15:30 Welcome Desk

09:00-11:00 Tutorial  
(Room Tejo 1)

**INTERACTION DESIGN FOR AUTOMATED GENERATION OF WEB USER INTERFACES (T022)**  
*Hermann Kaindl*

11:00-11:30 Coffee Break

11:30-13:00 Session FP 19.1  
Mobile Web // Web Services/SaaS  
(Room Sado)  
*Chair: Irfanullah Arfeen*

**REVISITING SESAME ARCHITECTURE FOR 5G NETWORKS (F060)**  
*Ioannis P. Chochliouros, Alexandros Kostopoulos, Evangelos Sfakianakis, Dimitrios Arvanitosis, Anastasia S. Spiliopoulou, Maria Belesioti, Ioannis Giannoulakis, Anastasios Kourtis, Pouria-Sayyad Khodashenas, Jose Oscar Fajardo, Athanassios Dardamanis, Emmanouil Kafetzakis, Javier Garcia Lloreda and Jordi-Perez Romero*  
**COMMUNICATING AND TRANSACTING WITH CHATBOTS: INSIGHTS FROM PUBLIC TRANSPORT (F028)**  
*Darius Zumstein and Sophie Hundertmark*  
**REVERSE MEDIATED INFORMATION SYSTEM: WEB-BASED RETRIEVAL OF DISTRIBUTED, ANONYMOUS INFORMATION (F085)**  
*Johannes-Y. Lohrer, Daniel Kaltenthaler, Peer Kröger, Henriette Obermaier and Christiaan H. van der Meijden*

11:30-12:55 Session FSRP 19.2  
Usability Issues  
(Room Tejo 1)  
*Chair: K.M. George*

**FACTORS FAVORING THE DEVELOPMENT OF EDUCATIONAL APPS. USABILITY STUDY OF MOBILE APPLICATIONS TO TEACH PROGRAMMING (F087)**  
*Miguel García-Iruela and Raquel Hijón-Neira*  
**CONCEPT AND FEASIBILITY TESTS OF SELF-SUSTAINING POWER COMPONENTS FOR AUTONOMOUS SPORT AND HEALTH SENSORS (S039)**  
*Hans Weghorn*  
**EXAMINATION OF SOCIAL MEDIA GUIDELINES AT UNIVERSITIES IN JAPAN USING AN ARTIFICIAL NEURAL NETWORK (S018)**  
*Yukiko Maruyama, Ryozo Kitajima and Ryotaro Kamimura*  
**USER INTERACTION USING MOTION SENSITIVE DEVICES: A STUDY ABOUT BUTTON'S DIMENSION WITH KINECT AND WIIMOTE (R090)**  
*André Constantino da Silva, Luis Otávio Alves Nascimento and Vinicius Simões dos Santos Silva*

13:00-14:20 Lunch Break

14:20-15:20 Session FP 19.3  
Applications of Semantic Web  
(Room Tejo 1)  
*Chair: Demetrios Sarantis*

**AN ONTOLOGY-DRIVEN FRAMEWORK FOR DATA INTEGRATION AND DYNAMIC SERVICE COMPOSITION: CASE STUDY IN THE OIL & GAS INDUSTRY (F047)**  
*Geiza M. H. da Silva, Aline M. Saettler, Kathrin R. Llanes, Paulo Ivson, Daniel L. M. Nascimento and Eduardo T. L. Corseuil*  
**A QUESTION AND ANSWER SYSTEM FOR FACTUAL QUERIES IN PORTUGUESE ON DBPEDIA (F094)**  
*Maksym Ketsmur, Mário Rodrigues and António Teixeira*

15:30 – Social Event - Conference Tour and Dinner

## Friday 20<sup>th</sup>, October 2017

08:30-13:00 Welcome Desk

08:55-11:00 Session FSRP 20.1

Web Metrics // Human Computer Interaction and Usability // Other  
(Room Tejo 1)

Chair: *Mário Rodrigues*

**REMOVING BARRIERS IN EGOVERNMENT: BACK OFFICE ASSESSMENT (F068)**

*Demetrios Sarantis*

**HOW DID THEY START USING OSS? — SURVEY OF OSS DEVELOPERS IN JAPAN (F088)**

*Jun Iio, Kenji Tsukagoshi, Masayuki Hatta and Ko Kazaana*

**USABILITY ANALYSIS OF THREE MASSIVE ONLINE OPEN COURSE PLATFORMS (F034)**

*Alex de Souza Paiva, Augusto José Waszczynskij Antunes das Neves, Beatriz Otto Ramos, Claudia Mara Scudelari de Macedo, Fernanda Domingues and Juliana Bueno*

**DESIGNING AN EYE TRACKING EXPERIMENT TO DETERMINE COGNITIVE LOAD (S061)**

*Chris Barry, Mairéad Hogan and Ann M. Torres*

**THE DIGITAL MARKETING ENVIRONMENT THROUGH SEARCH ENGINE OPTIMIZATION AND WEB METRICS (R024)**

*José Ramón Saura, Pedro R. Palos-Sánchez and Juan José López*

09:00-11:00 Session FP 20.2

Evaluation and Assessment // Case Studies and Applications  
(Room Lima)

Chair: *John Biddiscombe*

**EXPERIENCES ON OBJECT TRACKING USING A MANY-CORE EMBEDDED SYSTEM (F047)**

*Laercio Minozzo, José Rufino and José Lima*

**BENCHMARKING OF BARE METAL VIRTUALIZATION PLATFORMS ON COMMODITY HARDWARE (F045)**

*Duarte Pousa and José Rufino*

**BLIND QUALITY ALGORITHM TO ANALYZE STREAMING VIDEO CONTENTS IN 5G NETWORKS (F070)**

*Juan Pedro López, Anton Authier, David Jiménez, José Manuel Menéndez and Nuria Sánchez*

**METHODOLOGICAL GUIDE FOR A DATA WAREHOUSING PROCESS (F050)**

*Wilson Castillo-Rojas and Fernando Medina-Quispe*

11:00-11:30 Coffee Break

11:30-12:35 Session FSRP 20.3

Data Mining // Case Studies and Applications  
(Room Tejo 1)

Chair: *José Rufino*

**MEASURING MESSAGE PROPAGATION AND USER INFLUENCE IN TWITTER DATA (F054)**

*Vishali Narayana, Ashwin Kumar TK and K. M. George*

**SAMPLING CAR-SHARING DATA TO EVALUATE URBAN TRAFFIC BEHAVIOUR (S055)**

*Andrea Trentini and Federico Losacco*

**MODELING DATA CLEANING TECHNIQUES FOR BIG DATA (R040)**

*Diana Martínez-Mosquera, Sergio Luján-Mora and Fidel Parra*

12:55 Best Paper Awards Ceremony and Closing Session

(Room Tejo 1)

*Profs. Pedro Isaías and Hans Weghorn*