| Noven | nber 18, 2018 to Novemb | | | | | |
|---|--|--|---|---|--|--|
| Submit a | CYBER 2018: Program | | | | | |
| Contribution Registration | | | ch 2018 - Preliminary Proference Venue Location | | | |
| Camera Ready | NOVOTEL Athenes Hotel 4-8 Michail Voda str.,104 39 Athens – Greece Tel. (+30)210/8200700; Fax. (+30)210/8200777 | | | | | |
| dlines | | Tel. (+30)21 | 10/8200700; Fax. (+30)21 H0866@accor.com | 0/8200777 | | |
| mission Aug 01, 2018 | | | com/gb/hotel-0866-novo | | | |
| fication Sep 04, 2018 Sep 17, | Note: Sessions sche | dule comprises regular ar number of success | nd special tracks. The fination of the final special tracks and the final special tracks and the final special tracks are special tracks as the final special tracks are special tracks are special tracks are special tracks are special tracks as the final special tracks are special | | vary according to the | |
| stration 2018 lera Sep 25, | Conference rooms Time slots | Room A | Room B | Room C | Room D | |
| y 2018 | Sunday, November 18 | | | , | | |
| Past Events | 13:00 | The reg | Registrat | ion starts in front of the conference | e rooms | |
| | | | | e entire conference | | |
| 100202 | 14:30 - 16:00 | Advanced Approaches to Enhance Cyber Applications Dr. <u>Thomas Klemas</u> (Speaker), Decision Engineering Analysis Laboratory-Cambridge, USA Dr. Steve Chan, Harvard University/Decision Engineering Analysis Laboratory, USA | | | | |
| | | | | | | |
| lication ished by | 16:00 - 16:15 | | | fee | | |
| <u>A XPS</u> | 16:15 - 17:45 | | | rial II A Hands-on Approach | | |
| ived in the 🔒 | 17.55 10.00 | Prof. [| | Huddersfield, United Kir | ngdom | |
| kMind al Library | 17:55 - 18:00 | | | ial III | | |
| s available at an Associates, Inc. | 18:00 - 19:30 | | What Does "Term | - | | |
| uthors of selected apers will be invited to bmit extended rsions to a <u>IARIA</u> ournal | | Prof. Dr. <u>Christophe Roche</u> , University Savoie Mont-Blanc, France and University of China | | | | |
| | 19:30 - 20:30 | Welcome Cocktail You must have your badge to attend the cocktail | | | | |
| xing Procedure | Monday, November 1 | 9 | | | | |
| ffiliated Journals | 09:00 - 09:15 | | | | | |
| | 09:15 - 10:15 | Keynote Speech Data Analytics: Challenges in Using the Fuzzy Sets Qualitative Comparative Analysis | | | | |
| | 10:15 10:20 | Prof. Dr. <u>Dimitris I</u> | | ersity of Economics and Break | Business, Greece | |
| | 10:15 - 10:30 10:30 - 12:15 | DATA ANALYTICS 1 | CYBER 1 | UBICOMM 1 | SEMAPRO 1 | |
| | 12:15 - 13:45 | | | your own | , T | |
| | 13:45 - 15:30 | DATA ANALYTICS 2 | ADVCOMP 1 | UBICOMM 2 Break | GLOBAL HEALTH | |
| | 15:45 - 17:30 | DATA ANALYTICS 3 | EMERGING 1 | UBICOMM 3 | | |
| | 17:30 - 17:45 | | | ffee | | |
| | | Panel on Advances in Data Processing Theme: Approaches for Identifying/Selecting the Right Data Moderator Sandjai Bhulai, Vrije Universiteit Amsterdam, The Netherlands Panelists Tim vor der Brück, Lucerne University of Applied Sciences and Arts, Switzerland | | | | |
| | | | | | | |
| | 17.45 10.00 | | | | | |
| | 17:45 - 19:30 | | Pane | elists | | |
| | 17.45 - 19.30 | | Pane ck, Lucerne University o Gregor Grambow, Hocł | e lists f Applied Sciences and A Ischule Aalen, Germany | | |
| | 17.45 - 19.30 | Tim vor der Brü | Pane ck, Lucerne University o Gregor Grambow, Hoch Gerald Fahne | elists Applied Sciences and A | rts, Switzerland | |
| | Tuesday, November 2 | Tim vor der Brü Gaia Ce | Pane ck, Lucerne University o Gregor Grambow, Hoch Gerald Fahne | elists Applied Sciences and A Ischule Aalen, Germany er, FICO, USA | rts, Switzerland | |
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TeleApp III

Coffee and Closing Session

EMERGING 2

12:30 - 14:15

AMBIENT 4

14:15 - 14:30 Friday, November 23 Recommended to be seen on your own Corinth: http://www.visitgreece.gr/en/destinations/korinthos and Corinthian Canal: https://en.wikipedia.org/wiki/Corinth_Canal (~ 85 km / 53 miles far from Athens) Athens: http://www.stoa.org/athens/ http://www.athensguide.com/ a. Visit the Agora, Lechaion Street and the Apollo temple b. Visit the Acropolis, the symbol of Athens. Walk to Areopag (Paulus prediction place) over Agora (ancient market place) c. Visitthe Downtown of Athens: Syntagma Square, the Zeus Temple and National Garden, the University, the Academy of Science and the National Library of Athens, the King's Palace and the Olympic Stadium, where the first Olympic Games had taken place. d. Visit of the New Acropolis Museum. e. Visit Vouliagmeni area: https://en.wikipedia.org/wiki/Vouliagmeni d. Visit Sounion: https://en.wikipedia.org/wiki/Sounion **Detailed Program** ADVCOMP 2018, The Twelfth International Conference on Advanced Engineering Computing and Applications in Sciences **ADVCOMP 1: Computing Applications in Science** Session chair: Klaus Peter Scherer Time Series Forecasting using ARIMA Model A Case Study of Mining Face Drilling Rig Hussan Al-Chalabi, Yamur Al-Douri, Jan Lundberg Time Series Forecasting using Genetic Algorithm: A Case Study of Maintenance Cost Data for Tunnel Fans Yamur Al Douri, Hussan Al-Chalabi, Jan Lundberg Hierarchical Multiscale Computational Methodologies for the Study of Complex Molecular Systems Georgios Kritikos, Anthony Chazirakis, Petra Bačová, Anastassia N. Rissanou, Evangelia Kalligiannaki, Vagelis Harmandaris **ADVCOMP 2: Computing Mechanisms and Methods** Session chair: Georgios Kritikos HPC as a Cloud Computing Service: Virtualization or Containerization? [PRESENTATION] Safae Bourhnane, Mohamed Riduan Abid Knowledge-Based Decision Support with Self-Learning Methods Klaus Peter Scherer, Constantin Rieder, Markus Germann, Joachim Baumeister, Stefan Plehn An Innovative Crowd Segmentation Approach based on Social Force Modelling Yu Hao, Zhijie Xu, Ying Liu, Jing Wang, Jiulun Fan ADVCOMP 3 /MAML: Multidisciplinary Mobile and Web Applications in Modern Life Session chair: Ahmad Rafi Qawasmeh Introduction / Editorial [PRESENTATION] Ahmad Rafi Qawasmeh Speeding up the Recommender Systems by Excluding the Low Rated Items Yousef Kilani CLINIC: A Web Healthcare Management System for Enhancing Clinical Services Ahmad Qawasmeh, Dema Awni, Raghad Mohammed, Rufaida Sabri, Ghydaa Ahmad Open Discussion and Closing Remarks [DISCUSSION] Ahmad Rafi Qawasmeh AMBIENT 2018, The Eighth International Conference on Ambient Computing, Applications, Services and **Technologies** AMBIENT 1: Ambient Devices, Applications and Systems Session chair: David Bouck-Standen Personalized Spatial/Instrumental Pattern Recommendation System for Ambient Assisted Living using Deep Neural Network [PRESENTATION] Hansaem Park, Seongju Chang A Rhetoric of Smart Carpet in the Age of Disruption; Leveraging IoT, Blockchain, and Platform for Value Co-Creation Amirhossein Roshanzamir, Vishanth Weerakkody, Vignesh Yoganathan Daily Life Monitoring System with Behavior Pattern Recognition Using Ambient Sensors Hirokazu Madokoro, Nobuhiro Shimoi, Kazuhito Sato AMBIENT 2: Ambient Services, Technology and Platforms Session chair: Amirhossein Roshanzamir Feasibility Experiment on Position Estimation of Various Sound Sources Takeru Kadokura, Shigenori Ioroi, Hiroshi Tanaka Smart World: Convergence of Communication Networks and Enabling Technologies for Ubiquitous Services Shaftab Ahmed An Approach to Auto-Enhance Semantic 3D Media for Ambient Learning Spaces David Bouck-Standen, Alexander Ohlei, Thomas Winkler, Michael Herczeg AMBIENT 3 / AMALCO: Ambient Environments for Assisted Living and Virtual Coaching Session chair: Kropf Johannes Introduction / Editorial [PRESENTATION] Kropf Johannes MCA Driven Interaction Interfacing Daniela Elisabeth Ströckl, Heinrich C. Mayr SMILA: Design and Evaluation of a Smart Mirror for Monitoring Health Karl Kreiner, Christian Löw, Svenja Schröder, Markus Falgenhauer, Kristina Reiter, Kurt Edegger Explicit and Implicit Human Computer Interactions in Ambient Intelligence Environments Miroslav Sili, Emanuel Sandner, Lukas Roedl Open Discussion and Closing Remarks [DISCUSSION] Kropf Johannes AMBIENT 4: User Friendly Interfaces Session chair: David Bouck-Standen Improving Interdisciplinary Communication – Use Case Focused User Interaction Diagram 2.0 Daniela Elisabeth Ströckl, Daniela Krainer, Elena Oberrauner Review of User Interfaces for Caregivers in Ambient Assisted Living Alena Brennan, Keara Barrett, Caroline Byrne, Gregory M. P. O'Hare, Ailish Kavanagh CYBER 2018, The Third International Conference on Cyber-Technologies and Cyber-Systems **CYBER 1: Cyber Security** Session chair: Alan Laing A Comparative Evaluation of Automated Vulnerability Scans Versus Manual Penetration Tests on False-negative Errors Saed Alavi, Niklas Bessler, Michael Massoth A Taxonomy of Attacks via the Speech Interface Mary K. Bispham, Ioannis Agrafiotis, Michael Goldsmith Cyber Security Using Bayesian Attack Path Analysis Remish Leonard Minz, Sanjana Pai Nagarmat, Ramesh Rakesh, Yoshiaki Isobe CyberSDnL: A Roadmap to Cyber Security Device Nutrition Label Abdullahi Arabo CYBER 2 / CAS-IAADR I: Cyber Attack Surfaces and the Interoperability of Architectural Application Domain **Resiliency I** Session chair: Steve Chan Introduction / Editorial [PRESENTATION] Steve Chan, Tom Klemas Prototype Orchestration Framework as a High Exposure Dimension Cyber Defense Accelerant Amidst Ever-Increasing Cycles of Adaptation by Attackers Steve Chan Prototype Open-Source Software Stack for the Reduction of False Positives and Negatives in the Detection of Cyber Indicators of Compromise and Attack Steve Chan Prediction of Underground Fire Behavior in South Sumatra: Using Support Vector Machine With Adversarial Neural **Network Support** Ika Oktavianti Najib CYBER 3 / CAS-IAADR II: Cyber Attack Surfaces and the Interoperability of Architectural Application Domain **Resiliency II** Session chair: Tom Klemas Countering an Anti-Natural Language Processing Mechanism in the Computer-Mediated Communication of "Trusted" Cyberspace Operations Steve Chan Harnessing Machine Learning, Data Analytics, and Computer-Aided Testing for Cyber Security Applications Thomas Klemas, Steve Chan Open Discussion and Closing Remarks [DISCUSSION] Steve Chan, Tom Klemas CYBER 4 / CTC-Gov-CRS: Critical Test Capabilities for Informed ICT Governance of Cyber-Resilient Systems Session chair: Keith Joiner Introduction / Editorial [PRESENTATION] Keith Joiner DHS ICT Governance for Cyber-resilience [PRESENTATION] Narelle Devine, Max Heinrich ICT Governance Decision Making Using an Agile Innovation-led Approach to Benefits Realisation Amit Ghildyal, Elizabeth Chang Building a Cyber Resilient Culture in Dynamic and Disruptive Environments [PRESENTATION] Anne Coull High Assurance Evaluations to inform ICT Governance for Cyber-Resilient Systems [PRESENTATION] Alan Laing Open Discussion and Closing Remarks [DISCUSSION] Keith Joiner **CYBER 5: Cyber Infrastructure** Session chair: Maria Bada Four Testing Types Core to Informed ICT Governance for Cyber-resilient Systems [PRESENTATION] Keith Joiner, Amit Ghildyal, Alan Laing, Narelle Devine Oasis - A Network Asset Management Tool [PRESENTATION] Collin Mitchell A Multi-Agent System Blockchain for a Smart City André Diogo, Bruno Fernandes, António Silva, José Carlos Faria, José Neves, Cesar Analide **CYBER 6: Cyber Resilience** Session chair: Collin Mitchell Threat Analysis using Vulnerability Databases - Matching Attack Cases to Vulnerability Database by Topic Model Analysis -Umezawa Katsuyuki, Mishina Yusuke, Wohlgemuth Sven, Takaragi Kazuo Reviewing National Cybersecurity Awareness in Africa: An Empirical Study Maria Bada, Basie Von Solms, Ioannis Agrafiotis Industrial Internet Security in China [PRESENTATION] Jingjuan Liu CYBER 7 / ES4IOT: Embedded Systems for the Internet of Things Session chair: Xing Liu Introduction / Editorial [PRESENTATION] Xing Liu Building A Collection of Labs for Teaching IoT Courses Xing Liu IoT-Based Secure Embedded Scheme for Insulin Pump Data Acquisition and Monitoring Zeyad A. Al-Odat, Sudarshan K. Srinivasan, Eman Al-Qtiemat, Mohana Asha Latha Dubasi, Sana Shuja A Methodology For Synthesizing Formal Specification Models From Requirements for Refinement-Based Object Code Verification Eman Al-Qtiemat, Sudarshan K. Srinivasan, Mohana Asha Latha Dubasi, Sana Shuja Static Stuttering Abstraction for Object Code Verification Naureen Shaukat, Sana Shuja, Sudarshan Srinivasan, Shaista Jabeen, Mohana Asha Latha Dubasi Open Discussion and Closing Remarks [DISCUSSION] Xing Liu DATA ANALYTICS 2018, The Seventh International Conference on Data Analytics DATA ANALYTICS 1: Application-oriented Analytics I Session chair: Gregor-Patrick Heine Utilizing Data Analytics to Support Process Implementation in Knowledge-intensive Domains Gregor Grambow An Approach to Analyze Sensitivity of Inner and Outer Dependence AHP [PRESENTATION] Shin-ichi Ohnishi. Takahiro Yamanoi Developing Transparent Credit Risk Scorecards More Effectively: An Explainable Artificial Intelligence Approach Gerald Fahner **DATA ANALYTICS 2: Big Data** Session chair: Marek Opuszko Towards a Scalable Data-Intensive Text Processing Architecture with Python and Cassandra Gregor-Patrick Heine, Thomas Woltron, Alexander Wöhrer Big Data Analytics for the Small Social Enterprise: How to Create a Data-driven Approach to Address Social Challenges Soraya Sedkaoui, Salim Moualdi Dynamic Scenario-based Selection of Data Aggregation Techniques Oladotun Omosebi, Nik Bessis, Yannis Korkontzelos, Evangelos Pournaras, Quanbin Sun, Stelios Sotiriadis **DATA ANALYTICS 3: Sentiment/Opinion Analysis** Session chair: Soraya Sedkaoui Analysis of Twitter Communication During the 2017 German Federal Election Marek Opuszko, Laura Bode, Stephan Ulbricht Social Media and Google Trends in Support of Audience Analytics: Methodology and Architecture Nikos Kalatzis, Ioanna Roussaki, Christos Matsoukas, Marios Paraskevopoulos, Symeon Papavassiliou, Simona Tonoli Stance Classification Using Political Parties in Tokyo Metropolitan Assembly Minutes Yasutomo Kimura, Minoru Sasaki DATA ANALYTICS 4 / DAPSeD: Data Analytics in Profiling and Service Design Session chair: Dimitris K. Kardaras Introduction / Editorial [PRESENTATION] Dimitris K. Kardaras The Impact of Social Media on User's Travel Purchase Intention Stavros Kaperonis Profiling Using Fuzzy Set QCA for Medical Diagnosis-The Case of Anemia Stavroula Barbounaki, Nikos Dimitrioglou, Dimitris Kardaras, Ilias Petrounias Open Discussion and Closing Remarks [DISCUSSION] Dimitris K. Kardaras **DATA ANALYTICS 5: Application-oriented Analytics II** Session chair: Gaia Ceresa A Modeling Tool for Equipment Health Estimation Using a System Identification Approach Alexander Dementjev, Ilkay Wunderlich, Klaus Kabitzschh, Germar Schneider Shine on Transport Model Simulation Data: Web-based Visualization in R using Shiny Antje von Schmidt, Rita Cyganski, Matthias Heinrichs Machine Learning for Cyber Defense and Attack Manjeet Rege, Raymond Blanch K. Mbah **DATA ANALYTICS 6: Fundamentals** Session chair: Petre Dini Algorithms for Electrical Power Time Series Classification and Clustering Gaia Ceresa, Andrea Pitto, Diego Cirio, Emanuele Ciapessoni, Nicolas Omont An Integration Module for Mining Textual and Visual Social Media Data Mohammed Ali Eltaher A Predictive Data Analytic for the Hardness of Hamiltonian Cycle Problem Instances Gijs van Horn, Richard Olij, Joeri Sleegers, Daan van den Berg **DATA ANALYTICS 7: Mechanisms and Features** Session chair: Mohammed Ali Eltaher Predictive Analytics in Utility Vehicle Maintenance Juergen Prinzbach, Stephan Trahasch Evaluation of Ship Energy Efficiency Predictive and Optimization Models Based on Noon Reports and Condition **Monitoring Datasets** Christos Spandonidis, Nikos Themelis, George Christopoulos, Christos Giordamlis DATA ANALYTICS 8 / PDA: Predictive Data Analytics Session chair: Sandjai Bhulai Introduction / Editorial [PRESENTATION] Sandjai Bhulai Forecasting Burglary Risk in Small Areas Via Network Analysis of City Streets Maria Mahfoud, Sandjai Bhulai, Rob van der Mei, Dimitry Erkin, Elenna Dugundji Optimal Taxi Fleet Management: a Linear Programming Approach to the Taxi Capacity Problem Jacky Li, Sandjai Bhulai Dynamic Models for Knowledge Tracing & Prediction of Future Performance Androniki Sapountzi, Sandjai Bhulai, Ilja Cornelisz, Chris van Klaveren Open Discussion and Closing Remarks [DISCUSSION] Sandjai Bhulai DATA ANALYTICS 9 / TTASC: Transport and Traffic Analytics in Smart Cities Session chair: Ivana Semanjski Introduction / Editorial [PRESENTATION] Ivana Semanjski Efficient Use of Geographical Information Systems for Improving Transport Mode Classification Jorge Rodriguez-Echeverria, Sidharta Gautama, Nico Van de Weghe, Daniel Ochoa, Benhur Ortiz-Jaramillo Cyber-threats Analytics for Detection of GNSS Spoofing Silvio Semanjski, Ivana Semanjski, Wim De Wilde, Alain Muls Comparing Route Deviation Bus Operation With Respect to Dial-a-Ride Service for a Low-Demand Residential Area Antonio Pratelli, Marino Lupi, Alessandro Farina, Chiara Pratelli Big Data-driven Multimodal Traffic Management: Trends and Challenges Ivana Semanjski, Sidharta Gautama Open Discussion and Closing Remarks [DISCUSSION] Ivana Semanjski EMERGING 2018, The Tenth International Conference on Emerging Networks and Systems Intelligence **EMERGING 1: Technology and Networking Trends** Session chair: Hassan Khachfe The Efficacy of Using GeoGebra in Teaching Eighth Grade Mathematics Hasan Rizk, Hassan M. Khachfe Adaptive Probabilistic Search in Complex Dynamic Networks Spiridoula V. Margariti, Vassilios V. Dimakopoulos **EMERGING 2: Quality and Optimization** Session chair: Spiridoula Margariti Perception of English Teachers towards the Use of Technology in Class: The Case of Nabatieh Area (Lebanon) Schools Khadija Salameh, Hassan M. Khachfe Extent of the Commitment to Corporate Social Responsibility (CSR) in Private Schools of Beirut (Lebanon) Hasan Youness, Zeinab Badderedine, Hassan M. Khachfe GLOBAL HEALTH 2018, The Seventh International Conference on Global Health Challenges **GLOBAL HEALTH 1: Health and Wellness Informatics** Session chair: Hassan M. Khachfe Open-source Data Analysis and Machine Learning for Asthma Hospitalisation Rates Laura Rooney, Chaloner Chute, William Buchanan, Adrian Smales, Laura Hepburn Quantitative Analysis of Facial Expression for Medical Doctors Akemi Oe, Yoshitoshi Murata Implantation of Elongated Silicon Neural Probe Array in Rat Cortex Mohamad Hajj-Hassan, Rayan Fayad, Soumaya Berro, Houssein Hajj-Hassan, Sam Musallam, Vamsy P. Chodavarapu, Hassan M. Khachfe **GLOBAL HEALTH 2: Challenges** Session chair: Adrian Smales Role of School Administration in Controlling Communicable Diseases Walaa H. Sweid, Ali Al Khatib, Houssein Hajj-Hassan, Mohamad Rached, Hassan M. Khachfe Sustainability and MCH Human Resources Development in the Developing Countries [PRESENTATION] Yae Yoshino, Reiko Sakashita, Chris Willott Data Driven Medical Process Modelling for Privacy Protection in Care Pathways Intidhar Essefi, Hanene Boussi Rahmouni, Mohamed Fethi Ladeb A Cost-effective BCI Assisted Technology Framework for Neurorehabilitation M A Hannan Bin Azhar, Anthony Casey, Mohamed Sakel **GLOBAL HEALTH 3: Alternative** Session chair: Maria João Silva Blessed Health - A Journey From "I-Health" to "We-Health" Srikali Goutam Varanasi Chronic Exposure to Chlorpyrifos alters Spontaneous Motor Activity and Skeletal Muscles Contractility in Young Rats Nancy Hallal, Mohamad Sayed, Wiam Ramadan, Hassan Khachfe, Ali Salami, Maram Saleh, Hiba El Sabbouri, Wissam Joumaa Impact of Resistance Training in Patients with Chronic Heart Failure Zahra Sadek, Said Ahmaidi, Wissam H. Joumaa, Charifa Awada, Mahmoud Youness, Wiam Ramadan **GLOBAL HEALTH 4: Global** Session chair: Srikali Goutam Varanasi Eco-Sensors4Health Toolkit: Scaffolding Children Participation in Schools' Environmental Health Maria João Silva, Eduarda Ferreira, Alexandra Souza, Ana Rita Alves Effect of Communicable Disease on the Performance of Elementary Students: the Case of Leishmaniosis Among Syrian Refugees in Lebanon Firyal J. Zayyoun, Ehssan Sharif-Askari, Wiam Ramadan, Nancy Hallal, Hassan M. Khachfe SEMAPRO 2018, The Twelfth International Conference on Advances in Semantic Processing **SEMAPRO 1: Basics on Semantics** Session chair: Jian Xi Investigating Argument Relatedness Based on Linguistic Knowledge Marie Garnier, Sarah Bourse, Patrick Saint-Dizier Word Embeddings of Monosemous Words in Dictionary for Word Sense Disambiguation Minoru Sasaki An Ontology for Cultural Heritage Protection against Climate Change Jürgen Moßgraber, Paraskevi Pouli, Desiree Hilbring, Guiseppina Padeletti, Tobias Hellmund A Survey of Ontology Learning from Text Kaoutar Belhoucine, Mohammed Mourchid **SEMAPRO 2: Domain-oriented Semantic Applications** Session chair: Christophe Roche Towards an Automated System for Music Event Detection Jian Xi, Michael Spranger, Hanna Siewerts, Dirk Labudde Italian Domain-specific Thesaurus as a Means of Semantic Control for Cybersecurity Terminology Claudia Lanza BioPedia: Knowledge Graphs for Microbiology [POSTER] Sophie Huet, Ghislaine Guigon, Romain Pogorelcnik, Stéphane Schicklin SEMAPRO 3: Semantic Applications, Platforms, and Tools Session chair: Sophie Huet Extended Functionality of Mathematical Formulae Search Service Alexander Gusenkov, Polina Gusenkova, Yana Palacheva, Olga Zhibrik Tedi: a Platform for Ontologisation of Multilingual Terminologies for the Semantic Web Maria Papadopoulou, Christophe Roche Estimating Semantic Similarity for Targeted Marketing based on Fuzzy Sets and the Odenet Ontology Tim vor der Brück UBICOMM 2018, The Twelfth International Conference on Mobile Ubiquitous Computing, Systems, Services and **Technologies** UBICOMM 1: Ubiquitous Software and Security Session chair: Amita Singh Dummy-Based Anonymization for Voice-Controlled IoT Devices Katrin Winkler. Erik Buchmann On the Effectiveness of Blockchain Against Cryptocurrency Attacks Sarwar Sayeed, Hector Marco-Gisbert Slicedup: A Tenant-Aware Memory Deduplication for Cloud Computing Fernando Vañó-García, Hector Marco-Gisbert **UBICOMM 2: Ubiquitous Networks** Session chair: Sarwar Sayeed Wireless Multihop Networks with Network Coding Communication Using Collision Detection of Control Messages Yusuke Aoi, Hiroaki Higaki User-centric IoT: Challenges and Perspectives Wafa Abdelghani, Corinne Amel Zayani, Ikram Amous, Florence Sèdes SPACE: An Empirical Approach Towards a User-Centric Smart Campus Prathyusha Thammineni, Vipul Jindal, Saurabh Gangwar, Anand Konjengbam, Kotaro Kataoka **UBICOMM 3: Fundamentals** Session chair: Fernando Vano Garcia Towards Modular and Adaptive Assistance Systems for Manual Assembly: A Semantic Description and Interoperability Framework Amita Singh, Fabian Quint, Patrick Bertram, Martin Ruskowski M-learning as a Motivational Method for Adult Basic and Professional Education Claysllan Ferreira Xavier, George Mendes Teixeira Santos, Selmon Franco Mascarenhas, Mauro Henrique Lima de Boni, Adelino Rodrigues Soares Increasing Throughput and Efficiency of LoRaWAN Class A Roman Trüb, Lothar Thiele **UBICOMM 4: Users, Applications, and Business Models** Session chair: Antonios Karatzoglou Countermeasure to Human Recognition Error for Agent-based Human Tracking System Masaru Shiozuka, Tappei Yotsumoto, Kenichi Takahashi, Masashi Nishiyama, Takao Kawamura, Kazunori Sugahara Application of Machine Learning Techniques to Situational Risk Assessment Based on Accident Database Ryuta Watanabe, Keisuke Yamazaki, Tsuyoshi Nakajima Wearable Spirometry: Using Integrated Environment Sensor for Breath Measurement Alejandro Baucells Costa, Bo Zhou, Orkhan Amiraslanov, Paul Lukowicz **UBICOMM 5: Ubiquity Trends and Challenges** Session chair: Alejandro Baucells Costa Searching for Temporal Dependencies in the Privacy Concerns of Location-Based Service Users Antonios Karatzoglou, Julia Anken, Florian Banscher, Lukas Diewald, Michael Beigl An Efficient Self-Organizing Node Deployment Algorithm for Mobile Sensor Networks Mahsa Sadeghi Ghahroudi, Alireza Shahrabi, Tuleen Boutaleb UBICOMM 6 / TeleApp I: Telematics Applied I Session chair: Claudio de Castro Monteiro Introduction / Editorial [PRESENTATION] Claudio de Castro Monteiro, Carlos Henrique Corrêa Tolentino Graph Theory and NoSQL Database Applied to School Scheduling Problem Jocivan Suassone Alves, Luidne da Silva Mota, Carlos Henrique Correa Tolentino A Solution for Mobility Protocols Evaluation Thierry Silva Pereira UBICOMM 7 / TeleApp II: Telematics Applied II Session chair: Claudio de Castro Monteiro ConstruNET - A Collaborative Tool to Provide Offers of Construction Supplies André Praça de Almeida Pinheiro, Jeverson de Sousa Barbosa Lima, Mardenn Robledo Rodrigues Coelho, Rafael Pereira Trancoso Borges The Use of E-portfolio as Collaborative Tool for a Creative Economy Arich Andrade Rocha, Irlley José A. C. Branco, Jonh Leno Fernandes, Mauro Henrique L. de Boni Gas-TO - a Case Study in Project-based Learning José Itamar M. de Souza Júnior, Diego Ferreira de Miranda, Yuri Antonio S. de Souza UBICOMM 8 / TeleApp III: Telematics Applied III Session chair: Claudio de Castro Monteiro The Use of Augmented Reality as a Tool in Human Anatomy Classes Michalany Turibio Glória, Fabrício Souza Nunes FitoQuilombo - An App for the Cultural Maintenance of Medicinal Plants in Quilombola Communities Gezivaldo Araujo Dias, José Valter Amaral de Freitas, Lucas Nunes Rodrigues, Sheyla Cristina de Castro, Walena de Almeida Marçal Magalhães Augmented Reality as a Technological Solution in the Teaching/Learning Process in Civil Engineering Course Classes: a Case Study David Araujo, Luiz Philipe Open Discussion and Closing Remarks [DISCUSSION] Claudio de Castro Monteiro, Carlos Henrique Corrêa Tolentino UBICOMM 9 / UBDT: Ubiquitous Big Data in Transport Session Chair: Konstantinos Chatzikokolakis Introduction / Editorial [PRESENTATION] Konstantinos Chatzikokolakis Vessel Profile Indicators using Fuzzy Logic Reasoning and AIS Konstantinos Chatzikokolakis Enabling collaborative, data-driven intelligence for the Maritime Sector Giannis Tsapelas, Spiros Mouzakitis, Panagiotis Kokkinakos, Ariadne Michailitsi, Stavros Skalidakis, Dimitris Askounis, Dimitris Miltiadou, Stamatis Pitsios, Kostas Perakis Open Discussion and Closing Remarks [DISCUSSION]

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