

Advances in Intelligent Systems and Computing

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Janusz Kacprzyk, Polish Academy of Sciences, Warsaw, Poland
e-mail: kacprzyk@ibspan.waw.pl

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Preface

This book contains a selection of papers accepted for presentation and discussion at The 2016 World Conference on Information Systems and Technologies (WorldCIST'16). This Conference had the support of the Federal Rural University of Pernambuco, IEEE Systems, Man, and Cybernetics Society, AISTI (Iberian Association for Information Systems and Technologies/Associação Ibérica de Sistemas e Tecnologias de Informação), and GIIM (Global Institute for IT Management). It took place at Recife, Pernambuco, Brazil, March 22–24, 2016.

The World Conference on Information Systems and Technologies (WorldCIST) is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences, and challenges of modern Information Systems and Technologies research, technological development and applications. One of its main aims is to strengthen the drive toward a holistic symbiosis between academy, society, and industry. WorldCIST'16 built on the successes of WorldCIST'13, held at Olhão, Algarve, Portugal, WorldCIST'14 held at Funchal, Madeira, Portugal, and WorldCIST'15 which took place at São Miguel, Azores, Portugal.

The Program Committee of WorldCIST'16 was composed of a multidisciplinary group of experts and those who are intimately concerned with Information Systems and Technologies. They have had the responsibility for evaluating, in a 'blind review' process, the papers received for each of the main themes proposed for the Conference: (A) Information and Knowledge Management; (B) Organizational Models and Information Systems; (C) Software and Systems Modeling; (D) Software Systems, Architectures, Applications and Tools; (E) Multimedia Systems and Applications; (F) Computer Networks, Mobility and Pervasive Systems; (G) Intelligent and Decision Support Systems; (H) Big Data Analytics and Applications; (I) Human–Computer Interaction; (J) Health Informatics; (K) Information Technologies in Education; (L) Information Technologies in Radiocommunications.

WorldCIST'16 also included workshop sessions taking place in parallel with the conference ones. Workshop sessions covered themes such as (i) Communication

and Journalism in Online Social Networks, (ii) Computer Supported Qualitative Analysis, (iii) Emerging Trends and Challenges in Business Process Management, (iv) Healthcare Information Systems Interoperability, Security and Efficiency, (v) Human–Machine Interfaces in Automation, Robotics and Mechanics, (vi) Innovation in Information Management, (vii) Intelligent Systems, (viii) Internet, Business and Social Networks, Pervasive Information Systems, (ix) Semantics for Humanities Resources.

WorldCIST’16 received contributions from 41 countries around the world. The papers accepted for presentation and discussion at the Conference are published by Springer (this book) and by AISTI (another e-book) and will be submitted for indexing by ISI, EI-Compendex, SCOPUS, DBLP and/or Scholar Google, among others. Extended versions of selected best papers will be published in relevant journals, including SCI/SSCI and Scopus indexed journals.

We acknowledge all those who contributed to the staging of WorldCIST16 (authors, committees, and sponsors); their involvement and support is very much appreciated.

Pernambuco
March 2016

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Contents

Part I Health Informatics

Using Mobile Technology to Improve Nutritional Information of Diabetic Patient’s	3
Saad Masood Butt, Karla Felix Navarro, Mohammed Shorab, Shahid Masood Butt and Azura Onn	
Monitoring Indoor Air Quality to Improve Occupational Health	13
Rui Pitarma, Gonçalo Marques and Filipe Caetano	
Towards Paperless Hospitals: Lessons Learned from 15 Health Facilities in Uganda	23
Benjamin Kanagwa, Jenard Ntacyo and Sam Orach	
Performance Improvements to a Large Scale Public Health Data and Analytics Platform: A Technical Perspective	33
Arun Sundararaman, Suresh Pargunarajan and Srinivasan Valady Ramanathan	
An mHealth Remote Monitor System Approach Applied to MCC Using ECG Signal in an Android Application	43
Francisco Muller Machado, Isis Magrid Koehler, Marlon Silva Ferreira and Miguel Antonio Sovierzoski	
The Impact of the Security Competency on “Self-efficacy in Information Security” for Effective Health Information Security in Iran	51
Ahmad Bakhtiyari Shahri and Shahram Mohanna	
Evaluating the Use of Gamification in <i>m-Health</i> Lifestyle-related Applications	63
Marcílio Souza-Júnior, Laize Queiroz, Jorge Correia-Neto and Guilherme Vilar	

Serious Games for Balance Improvement: A Systematic Literature Mapping 73
 Rafaela Bosse, Antônio Vinicius Soares and Marcelo da Silva Hounsell

Information Systems and Technologies Maturity Models for Healthcare: A Systematic Literature Review 83
 João Vidal Carvalho, Álvaro Rocha and António Abreu

Reducing Computation Time by Monte Carlo Method: An Application in Determining Axonal Orientation Distribution Function 95
 Nicolás F. Lori, Rui Lavrador, Lucia Fonseca, Carlos Santos, Rui Travasso, Artur Pereira, Rosaldo Rossetti, Nuno Sousa and Victor Alves

Enabling Data Storage and Availability of Multimodal Neuroimaging Studies—A NoSQL Based Solution 107
 Filipe Fernandes, Paulo Marques, Ricardo Magalhães, Nuno Sousa and Victor Alves

Towards Automatic Screening of Idiopathic Scoliosis Using Low-Cost Commodity Sensors—Validation Study 117
 Dejan Dimitrijević, Đorđe Obradović, Marko Jocić, Zečević Igor, Petar Bjeljac, Vladimir Todorović and Jelena Dimitrijević

Part II Information Technologies in Education

Singularities of the University Spin-off in Northern Argentina 129
 Patricia Paola Zachman and Andrés Redchuk

Integrated Technological Resource in the Construction of the Teaching and Learning of Technical Nursing Course 137
 Heitor Hermeson de Carvalho Rodrigues, Janimere Soares da Silva, Cicero Cardozo de Almeida Filho, José Vilson Martins Filho, Yara Pereira de Brito, David Wilber Silva Daltro, Isis Magrid Koehler, Vicente Machado Neto and Miguel Antonio Sovierzoski

Dictionaries on Smartphones: Learners’ Assessment of Features and Potential of Dictionary Apps as Pedagogical Tools 143
 Helvia P.P. Bastos and Gabriel P.F. Machado

Collaborative Learning Supported by Mobile Devices: A Case Study in Portuguese High Education Institutions 157
 Fernando Moreira, Maria João Ferreira, Carla Santos Pereira and Natércia Durão

Calculation of Sleep Indicators in Students Using Smartphones and Wearables 169
 Francisco de Arriba Pérez, Juan Manuel Santos Gago and Manuel Caeiro Rodríguez

Design of a Programming Paradigms Course Using One Single Programming Language 179
 Francisco Ortin, Jose Manuel Redondo and Jose Quiroga

Data Mining in Academic Databases to Detect Behaviors of Students Related to School Dropout and Disapproval 189
 José Antônio da Cunha, Elionai Moura and Cesar Analide

PHABRIKA: Teaching Financial Techniques to Sell Through Serious Game 199
 Ari Freund and Pollyana Notargiacomo Mustaro

Education Challenges in a Hyperconnected Society Based on the National Survey #ConnectedYouthBrazil 209
 Brasilina Passarelli and Fabiana Vetritti

TTATI—Three-Dimensional Technological Approach to Teaching Innovation: Prospects for Successful Teaching and Learning 219
 João Melo, Elda Melo and Betânia Ramalho

Systematic Review of Literature: The Contributions to the Learning Process by Digital Technologies and Pedagogical Architectures 225
 Patricia Fiuza and Roberta Ribas Mocelin

Exercise Composition: From Environment Properties to Composed Problems 235
 Isabel Araújo, José João Almeida and Georgi Smirnov

Digital Games for Math Literacy: A Systematic Literature Mapping on Brazilian Publications 245
 Mayco Farias de Carvalho, Isabela Gasparini and Marcelo da Silva Hounsell

An Approach that Support Multiple Linked Representations Within an Intelligent Tutoring System for Helping Students to Develop Skills on Designing Digital Circuits 255
 Evandro de Barros Costa, Hemilis Joyse Barbosa Rocha, Rômulo Afonso Luna Vianna de Omena, Marcus Aurélio Cordeiro Piancó Júnior, Henrique Ferreira Alves, Marcos José Ferreira Neto and Aleksander Toledo

Open Course Ware (OCW) as Support to the Social and Collaborative Learning 265
 Samanta Cueva, Germanía Rodríguez and Oscar Marbán

A Hypermedia-Based Online Educational System for Assisting Accounting Students in Systems and Information Technology Course 277
 Inés María González Vidal, Evandro de Barros Costa, Leandro Dias da Silva, Fabrísia Ferreira de Araújo and Rafael Ferreira

Part III Information Technologies in Radiocommunications

A Sum-Rate Maximization Scheme for Ultra-Dense Network 289
 Bei Liu, Jie Zeng, Xin Su, Xibin Xu and Limin Xiao

Mobility Load Balancing with Multi-Cells for Parameter Control Resolution in Ultra-Dense Network 297
 Qi Zhang, Xin Su, Jie Zeng, Xibin Xu and Limin Xiao

Empirical Model for the Design of Printed Butterfly Antennas 303
 Sandra Costanzo, Antonio Costanzo, Antonio Borgia and Fabio Scalise

SDN-Enabled C-RAN: An Intelligent Radio Access Network Architecture 311
 Wencheng He, Jinjin Gong, Xin Su, Jie Zeng, Xibin Xu and Limin Xiao

Environmental Effects on the Performances of a UHF Passive Tag-Based Commercial RFID System. 317
 Sandra Costanzo, Antonio Costanzo, Antonio Raffo and Antonio Borgia

Software-Defined Radar System for Landslides Monitoring. 325
 Sandra Costanzo, Giuseppe Di Massa, Antonio Costanzo, Antonio Borgia, Antonio Raffo, Giuseppe Viggiani and Pasquale Versace

Equivalent Circuit Modeling of Active Reflectarray Element with Varactor Loaded Radial Phasing Line 333
 Francesca Venneri, Sandra Costanzo and Giuseppe Di Massa

Next Generation Network (NGN) Challenges on Access Networks 341
 João Paulo Ribeiro Pereira

Part IV Internet, Business and Social Networks

The Security Policy Application Process: Action Research 353
 Isabel Lopes and Pedro Oliveira

Broadband Access and Digital Divide. 363
 João Paulo Ribeiro Pereira

Recommendations for a New Portuguese Teacher Placement System	369
Danilo Santos, Jorge Oliveira e Sá, Luís Paulo Reis and Brígida Mónica Faria	
Computer Supported Cooperative Work—Exploratory Study on CSCW and Groupware Technologies and its Applicability in the Health Area	379
Frederico Branco, Ramiro Gonçalves, José Martins, José Bessa and Ana Baptista	
How Ill Is Online Health Care? An Overview on the Iberia Peninsula Health Care Institutions Websites Accessibility Levels	391
José Martins, Ramiro Gonçalves, Frederico Branco, Jorge Pereira, Carlos Peixoto and Tânia Rocha	
 Part V Communication and Journalism in Online Social Networks	
Iberian Local Online Media as a Space of Sociability in the Network Society	403
María Cruz Negreira Rey and Xosé López García	
The Use of Social Networks in Interactive Documentary	413
Jorge Vázquez Herrero and Xosé López García	
Study of Political Campaign Ads from Ecuador Employing Heart Rate Variability (HRV)	421
José Rúas-Araújo, Pedro Cuesta-Morales and Xosé Antón Vila-Sobrino	
Contents in the Television of Ecuador. Incidence of the Digital Transition and the Regulation	431
Abel Suing and Carlos Ortiz	
Looking for a Place in Social Media Without Getting Trapped in Networks	439
Xosé López García, Ana Isabel Rodríguez Vázquez and Xosé Soengas	
Competing Tourist Destinations and Their Positioning on the Social Medium <i>Facebook</i>: Ecuador, Colombia and Peru.	449
María-Magdalena Rodríguez-Fernández, Clide Rodríguez-Vázquez, Christian-Stalin Viñán-Merecí and Valentín-Alejandro Martínez-Fernández	
The Importance of Social Capital in Higher Education. A Study of the Facebook Fan Pages.	461
Mercedes Teijeiro-Álvarez, Clide Rodríguez-Vázquez and Félix Blázquez-Lozano	

Management of Social Networks of the Audiovisual Project “EnchufeTV” 471
 Carlos Ortiz, Geovanna Salazar and Abel Suing

Leading Ecuadorian Companies in the Wine Tourism Sector and Their Positioning on the Social Medium Facebook 479
 María-Magdalena Rodríguez-Fernández, Eva Sánchez-Amboage, Ronald-Kleiner Toledo-Macas and Valentín-Alejandro Martínez-Fernández

Innovation as the Key for the Future of Public Service Media. 489
 Tania F. Lombao, Andrea Valencia-Bermúdez and Francisco Campos

Data, Native Advertising and Ad Blockers Revolutionize the Media Business Models 497
 Francisco Campos-Freire, Laura Seijo Vigo and Sabela Direito-Rebollal

Possibilities and Limits of Virtual Ethnography as a Research Technique for Political and Corporate Communication. 507
 Pablo Vázquez-Sande and Andrea Valencia-Bermúdez

Digital Convergence in Ecuadorian Media: Some Strengths and Weaknesses 515
 Diana Rivera-Rogel, Claudia Rodríguez-Hidalgo and Mayra Gonzales

Part VI Pervasive Information Systems

Pervasive Patient Timeline for Intensive Care Units 527
 André Braga, Filipe Portela, Manuel F. Santos, José Machado, António Abelha, Álvaro Silva and Fernando Rua

iRecomendYou: A Design Proposal for the Development of a Pervasive Recommendation System Based on Student’s Profile for Ecuador’s Students’ Candidature to a Scholarship 537
 Filipe Mota Pinto, Mireya Estefania, Natalia Cerón, Ramiro Andrade and Mauricio Campaña

Pervasive Decision Support to Predict Football Corners and Goals by Means of Data Mining 547
 João Gomes, Filipe Portela and Manuel F. Santos

Towards a Pervasive Data Mining Engine—Architecture Overview. 557
 Rui Peixoto, Filipe Portela and Manuel F. Santos

Pervasive Adaptive Data Acquisition Gateway for Critical Healthcare 567
 Sérgio Oliveira, Filipe Portela, Manuel F. Santos, José Machado and António Abelha

Part VII Healthcare Information Systems: Interoperability, Security and Efficiency

Predicting Triage Waiting Time in Maternity Emergency Care by Means of Data Mining 579
 Sónia Pereira, Luís Torres, Filipe Portela, Manuel F. Santos, José Machado and António Abelha

Critical Events in Mechanically Ventilated Patients 589
 Filipe Portela, Manuel F. Santos, José Machado, António Abelha, Álvaro Silva and Fernando Rua

Optimization Techniques to Detect Early Ventilation Extubation in Intensive Care Units 599
 Pedro Oliveira, Filipe Portela, Manuel F. Santos, José Machado, António Abelha, Álvaro Silva and Fernando Rua

Comorbidity Coding Trends in Hospital Administrative Databases . . . 609
 Alberto Freitas, Isabel Lema and Altamiro da Costa-Pereira

Part VIII Intelligent Systems

Social Simulation of Rescue Teams’ Dynamic Planning. 621
 João Ulisses, Rosaldo J.F. Rossetti, João E. Almeida and Brígida Mónica Faria

Monitoring Clusters in the Telecom Industry 631
 Gonçalo Pereira and João Mendes-Moreira

An Approach for Assessing the Distribution of Reporting Delay in Portuguese AIDS Data 641
 Alexandra Oliveira, A. Rita Gaio, Joaquim Pinto da Costa and Luís Paulo Reis

Part IX Semantics for Humanities Resources

OntoMP, an Ontology to Build the Museum of the Person 653
 Ricardo G. Martini, Cristiana Araújo, José João Almeida and Pedro Rangel Henriques

Part X Emerging Trends and Challenges in Business Process Management

Towards Ontology-based Anti-Patterns for the Verification of Business Process Behavior 665
 Jorge Roa, Emiliano Reynares, María Laura Caliusco and Pablo Villarreal

Part XI Computer Supported Qualitative Analysis

- Building a Relationship with the Supervisor: An Exploratory Study . . .** 677
 Catarina Brandão, Cláudia Henrique and José Miguez

Part XII Human-Machine Interfaces in Automation, Robotics and Mechanics

- On the Present State-of-the-Art of a Component Importance Analysis for Complex Technical Systems** 691
 Leszek Chybowski and Katarzyna Gawdzińska

- On the Possibilities of Applying the AHP Method to a Multi-criteria Component Importance Analysis of Complex Technical Objects** 701
 Leszek Chybowski and Katarzyna Gawdzińska

- Proactive Failure Prevention by Human-Machine Interface in Remote-Controlled Demolition Robots** 711
 Damian Derlukiewicz, Mariusz Ptak and Sebastian Koziółek

- Gamota-Filisko Model for Vacuum Packed Particles.** 721
 Robert Zalewski, Paweł Chodkiewicz and Łukasz Skoniecki

- Designing Process of the Drone's Passive Safety System** 729
 Piotr Bartkowski and Robert Zalewski

- Machining Interface and Adapter for Industrial Robots** 739
 Sławomir Zolkiewski

- Modelling of a Moveable Beamlike Complex System.** 749
 Sławomir Zolkiewski

Part XIII Innovation in Information Management

- Public Relations in Ecuador: Exploratory and Descriptive Research About Career Development.** 761
 Alejandro Alvarez Nobell, Jenny J. Yaguache and Fanny G. Paladines

- Author Index** 771