

11th IADIS International Conference Information Systems 2018

Lisbon, Portugal
14 – 16 April 2018

Editors:

**Miguel Baptista Nunes
Pedro Isaias**

**Philip Powell
Luis Rodrigues**

ISBN: 978-1-5108-6769-7

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2018) by International Association for Development of the Information Society (IADIS)
All rights reserved.

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact International Association for Development of the Information Society (IADIS) at the address below.

International Association for Development of the Information Society (IADIS)
Rua Sao Sebastiao Da Pedreira
No. 100, 30, 1050-209
Lisbon, Portugal

Phone: 351 21 3151373

Fax: 351 21 3151244

secretariat@iadis.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

FOREWORD	ix
PROGRAM COMMITTEE	xi
KEYNOTE LECTURE	xv
TUTORIAL	xvi

FULL PAPERS

AMERICAN APPAREL'S JOURNEY TOWARDS ACCURATE INVENTORY MANAGEMENT PRELUDE TO OMNICHANNEL RETAILING <i>Rebecca Angeles</i>	3
A SYSTEMATIC MAPPING STUDY ON MOBILE INFORMATION SYSTEMS AND SECURITY <i>Gizem Öğütcü, Esmâ Ergüner Özkoç and Murat Paşa Uysal</i>	11
USING THE STRUCTURE OF TACIT KNOWING FOR ACQUIRING A HOLISTIC VIEW ON IS FIELD <i>Ilia Bider and Martin Henkel</i>	19
COMPUTER INFORMATION SYSTEM CURRICULUM NEEDS REVAMPING A DIGITAL INFORMATION TECHNOLOGY PROGRAM <i>Bijan Mashaw</i>	27
THE DEVELOPMENT OF CAPACITY TO SUPPORT HMIS STRENGTHENING IN MOZAMBIQUE <i>Emilio Mosse and Zeferino Saugene</i>	34
MOBILE AND WEARABLE TECHNOLOGIES IN HEALTHCARE: A SYSTEMATIC REVIEW AND THE STATE-OF-THE-ART <i>Tansu Pancar and Sevgi Özkan Yildirim</i>	41
CONCEPTUALIZING BLOCKCHAINS: CHARACTERISTICS & APPLICATIONS <i>Karim Sultan, Umar Ruhi and Rubina Lakhani</i>	49
FORECASTING TOURISM DEMAND FOR LISBON'S REGION THROUGH A DATA MINING APPROACH <i>Hugo Ricardo, Ivo Gonçalves and Ana Cristina Costa</i>	58
ENGAGEMENT, CONTEXT AND INFORMATION SYSTEM TRAJECTORY: MODELING CUSTOMER EXPERIENCE IN INSURANCE <i>Gilles Beaudon and Eddie Soulier</i>	67

BUSINESS INTELLIGENCE APPLICATION IN ADAPTATION OF SERVQUAL SCALE AT BRAZILIAN HEALTH SYSTEM <i>Galba Freire Moita, Claudio Gonçalves Bernardo, Juliana Caetana da Costa and Danilo Afonso de Azevedo</i>	77
KNOWLEDGE ORCHESTRATION AND ACTIVITY OBJECTS IN CROWDSOURCED DIGITAL INNOVATION <i>Jiayuan Liu</i>	87
STREAMLINING PROCESSES FOR DIGITALIZATION <i>Azeem Lodhi, Veit Köppen, Gunter Saake and Klaus Turowski</i>	95
MOBILE TECHNOLOGIES AND ENTREPRENEURIAL DEVELOPMENT – IDENTIFYING THE MISSING LINK <i>Atika Ahmad Kemal</i>	105
THE INFLUENCE OF IS ON KNOWLEDGE SHARING IN MULTINATIONAL MANUFACTURING NETWORKS: EXPERIENCES FROM ALBANIAN AND MACEDONIAN PLANTS <i>Kreshnik Vukatana, Adrian Besimi, Kozeta Sevrani, Zamir Dika, Betim Çiço and Elira Hoxha</i>	113
MANAGING AGILE AND DEV-OPS ACTIVITIES THROUGH A CONSOLIDATED WEB PORTAL: SOUTH AFRICAN CASE STUDY <i>Abdel Kader Doukoure Gaoussou and Ernest Mnkandla</i>	121
A CYBERSECURITY MODEL FOR MOBILE DEVICES AIMED AT SMES THAT USE FREELANCERS AND BYOD SCHEMES <i>Ramon Bruderer, Moises Villena, Manuel Tupia and Mariuxi Bruzza</i>	129
READINESS FRAMEWORK OF ENTERPRISE RESOURCE PLANNING (ERP) IMPLEMENTATION AT SMALL AND MEDIUM COMPANY (SME) <i>Ria Puspawati N. Yosoenarto, Putu Wuri Handayani and Ave Adriana Pinem</i>	137
PREDICTING OPINION LEADERS IN LARGE SCALE ENTERPRISE ONLINE SOCIAL NETWORKS <i>Maryam Shahbazi, Nazim Choudhury, Majid Shahbazi and Deborah Bunker</i>	145
REFLECTIONS ON THE IMPEDIMENTS TO INFORMATION SYSTEMS STRATEGIC ALIGNMENT IN PUBLIC SECTOR ORGANISATIONS IDENTIFIED THROUGH A PROCESSUAL LENS <i>Anne Burke and Joseph McDonagh</i>	153
DON'T STOP ME NOW: EMERGENT ORGANISATIONAL PRACTICES ON SOCIAL MEDIA <i>Maxim Viktor Wolf, Julian Sims and Huadong Yang</i>	161
MULTIDIMENCIAL FRAMEWORK FOR CROSSCORPORATE BUSINESS SOCIAL NETWORK (BSN) <i>Nikolay Sterev, Valentin Kisimov, Tsvetana Stoyanova and Venko Andonov</i>	169
DETERMINANTS OF A SUSTAINABLE USE OF THE HEALTH INFORMATION SYSTEM IN THE SUB-SAHARAN AFRICA CONTEXT <i>Edison Wazoel Lubua and Philip D. Pretorius</i>	177
BEING CONTROLLED: EXPLORING CONTROLLEES' VIEW ON CONTROL IN IS PROJECTS <i>Roman Walser and Peter Virag</i>	185

RANSOMWARE: RECOMMENDATIONS AGAINST THE EXTORTION <i>Shubham Goel, John Bambenek and Masooda Bashir</i>	193
TOWARDS A NEW REUSE CAPABILITY AND MATURITY MODEL <i>Siham Younoussi and Ounsa Roudies</i>	201

SHORT PAPERS

MIGRATING GOOGLE CLOUD SDK TO THE CLOUD CASE STUDY: GAE LAUNCHER <i>Orges Çiço, Zamir Dika, Betim Çiço and Kozeta Sevrani</i>	211
INVESTIGATING A TECHNIQUE TO ANALYSE SOCIAL MEDIA DATA <i>Lizani Botha, Estelle Taylor and Magda Huisman</i>	217
POLITICAL PARTICIPATION IN TIMES OF BOLOGNA AND SOCIAL WEB – A GROUNDED THEORY FROM A STUDENTS’ POINT OF VIEW <i>Gerald Wolf</i>	223
VISUALIZING THE SYNTAX OF GRADUAL TRANSITIONS IN TEACHING DATABASE MODELING <i>Adi Katz</i>	228
A FRAMEWORK FOR TRACKING AND ASSESSMENT OF CURRICULA EVOLUTION <i>Vangel V. Ajanovski</i>	233
IMPROVING DOCUMENT RETRIEVAL WITH A CLUSTERING BASED RELEVANCE FEEDBACK SYSTEM <i>Johannes Darms and Jens Dörpinghaus</i>	237
A HIGH LEVEL SCIENTOMETRIC ANALYSIS OF WEBSITE QUALITY RESEARCH <i>Adel M. Aladwani</i>	241
KNOWLEDGE MANAGEMENT FOR THE CONSERVATION OF BIODIVERSITY AND THE SUSTAINABILITY OF ECOSYSTEM SERVICES <i>Johan Manuel Redondo</i>	245
COGNITIVE INFORMATION SYSTEMS OVERVIEW AND RESEARCH PROPOSAL <i>Bálint Molnár and Dóra Mattyasovszky-Philipp</i>	250
INTEGRATION OF CONOPS AND TOGAF ADM TO BENEFIT ADAPTIVE ENTERPRISE ARCHITECTURE <i>Nada Olayan and Shuichiro Yamamoto</i>	255
TRENDS AND ISSUES OF ONLINE PHARMACIES IN SAUDI ARABIA <i>Ramlah Hussein, Afnan Abdulqader Almohammadi, Wed Muhammad Alweldi, Abrar Mohammad Alshik, Saadia Malik and Arwa Mashat</i>	260

DESIGNING STUDENT’S GUIDE - INFORMATION SYSTEM MODEL BASED ON STUDENTS’ NEEDS	265
<i>Elena Vlahu-Gjorgievska, Yiran He, Siliang Tang and Yapu Wu</i>	
EXPLORING BITCOIN: OPPORTUNITIES AND THREATS OF USE IN OMAN	271
<i>Tahani Al-Hatmi, Razan Al-Rawas, Marwa Al-Noufali, Hajer Al-Buloshi and Yousuf Salim AlHinai</i>	

REFLECTION PAPERS

REVIEW OF BIG DATA: POSSIBLE OPPORTUNITIES AND CHALLENGES FOR ORGANISATIONS	279
<i>Gizem Erboz</i>	
TOWARDS LONGEVITY OF KNOWLEDGE	283
<i>Federico Grasso Toro</i>	
BIG DATA SYSTEMS: A RENEWED DEFINITION OF THE CONCEPT	287
<i>Everist Limaj and Edona Bilali</i>	
ALZHEIMER EARLY DETECTION BY HADOOP DATA-MINING	292
<i>Dror Ben-Ami</i>	

POSTERS

GRAPH BASED DISCOVERY IN BIOMEDICAL INFORMATION SYSTEMS CONNECTING SCIENTIFIC TEXTS WITH STRUCTURED EXPERT KNOWLEDGE	297
<i>Jens Dörpinghaus, Marc Jacobs and Juliane Fluck</i>	
SDA: TOWARDS A NOVEL KNOWLEDGE DISCOVERY MODEL FOR INFORMATION SYSTEMS	300
<i>Marc Jacobs, Sven Hodapp and Jens Dörpinghaus</i>	

AUTHOR INDEX