2018 JCCO Joint International Conference on ICT in Education and Training, International Conference on Computing in Arabic, and International Conference on Geocomputing (JCCO: TICET-ICCA-GECO 2018)

Hammamet, Tunisia 9-11 November 2018



IEEE Catalog Number: CI ISBN: 97

CFP18M52-POD 978-1-5386-6881-8

## Copyright © 2018 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number: CFP18M52-POD ISBN (Print-On-Demand): 978-1-5386-6881-8

ISBN (Online): 978-1-5386-6880-1

## **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

E-mail: curran@p roceedings.com Web: www.proceedings.com



## 2018 JCCO Joint International Conference on ICT in Education and Training, International Conference on Computing in Arabic, and International Conference on Geocomputing (JCCO: TICET-ICCA-GECO)

## **Table of contents**

Pedagogy Enhancement with ICT Integration: Consolidation with E-Learning Platforms and Portals	
A Fast Heuristic for Graph B-Coloring Problem	4
Said Labed, Akram Kout, And Salim Chikhi	
Automatic Translation from Arabic to Arabic Sign Language: A Review	11
E-Learning And its Relation to Academic Research Strategies: UAE University Students Model	16
Automating the Path from Models to Executable Systems in MDA Approach	20
Survey on Corpora Availability for the Tunisian Dialect Automatic Processing  Jihene Younes, Hadhemi Achour, Emna Souissi, and Ahmed Ferchichi	27
AlgoThink: An Algorithmic Computational Thinking Approach  Marah Altaher and Ahmed Ferchichi	34
Tunisian Dialect Resources for Opinion Analysis on Social Media  Emna Fsih, Rahma Boujelbane, and Lamia Hadrich Belguith	41
The Use of Smart Computing in ihe Study of the Fundamentals of Hadith and Exploring the Hadith Logic of Imams of Al Jarh Wa At-Ta'dil	
GeoSpatial Technology Documental Historical Tourism Site: Turkey in Khartoum	56
Ontology-driven Development Framework for Customer Experience Management Applications  Imen Benzarti and Hafedh Mili	60
GIS & RS-based Archaeologies Site Documents: Gari Region, Khartoum, Sudan  Taha Alfadul Taha Ali	68
A Comparative Study of the Various Clustering Algorithms in E-Learning Systems Using Weka Tools	76
The Importance of Preserving the Cognitive Content in the Learning Object Repository of the University of Oran 1 Ahmed Ben Bella	
Larbi Benhadjar Miloud and Abdelhadi Abdelali	
Identification of the Algiers Dialect Using the Linguistic Rules  Abdel Hakim Renali Mohamed Hédi Maaloul and Lamia Hadrich Relayith	88

Numerical Learning-Based Method for the Automatic Processing of Complex Disfluencies in Spontaneous Arabic Speech	02
Majda Labiadh, Younès Bahou, and Mohamed Hédi Maaloul	93
Digital Documentary Mediation in the Training Programs of the Librairians: Case Study of the Institute of Library Science and Documentation University of Constantine 2, Algeria	01
Skills of Information Specialist at the Library Dr. Ahmed Erwa at Prince Abdul Qader University of Islamic Sciences in Constantine: Descriptive Study	09
Nabil Aknouche and Bilel Hedjaz	
Modeling Competencies in Competency-Based Learning: Classification and Cartography	14
A Context Model for Individual Process Management 1 Bochra Khiari and Lamia Labed	22
Discourse Parsing of Arabic Texts: the Case of Attachments	28
The Role of Social Media in Lifelong Informal Learning Among Members of Society	33
Training of Beneficiaries on the Use of Databases: Central Library of the University of Mohamed Bouduerra  Algeria	
Augmented Reality in Education Learning and Training	54
Future of Work in a Digital Era: The Opportunities and Challenges for Online Freelancing - A study in Arab and Foreign Platforms	
Mining Educational Data to Analyze Students' Behavior and Performance	71
The Importance of Digital Libraries and Requirements - Case Study: the National Center for Research, Initiative to Establish the Sudanese Digital Library	76
ALGO-THINK Approach	81