

2014 International Conference on Web & Open Access to Learning (ICWOAL 2014)

**Dubai, United Arab Emirates
25-27 November 2014**



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ICWOAL'2014 Technical Program

Atlantis, The Palm, Dubai – November 25-27, 2014

Tuesday, November 25, 2014

Registration 8:00 -18:00

Opening Ceremony & Keynote 1: Prof. Mike Sharples (*The Open University - UK*)

Title: **Open Learning at Massive Scale**

Room: *Atlantis C* [Tuesday, November 25, 09:00 - 10:30]

Chair: Rachid Benlamri

Coffee Break 10:30-11:00

Session A1: eLearning Solutions for Open Access to Learning

Room: *Atlantis C* [Tuesday, November 25, 11:00 - 12:00]

Chair: Darina Dicheva

[Supporting Teachers' Needs Within and Through E-Learning Systems](#) ...

Renée Schulz, Ghislain Maurice N Isabwe, Frank Reichert (Norway)

[Constructivistic and Connectivistic E-Learning by Collaborative Case Management](#) ...

Freimut Bodendorf (Germany)

[XML-based Fully Automatic Assessment System for IT Skills](#) ...

Aicha Chorana, Abdallah Lakhdari, Hadda Cherroun, Slimane Oulad Naoui (Algeria)

Session B1: Smart & Virtual Learning Systems

Room: *Silk A* [Tuesday, November 25, 11:00 - 12:00]

Chair: Tayeb Sadiki

[A Framework for the Delivery of Personalized Adaptive Content](#) ...

Colm Howlin, Danny Lynch (Ireland)

[A Genetic Algorithm Applied in the Optimization of Cognitive Profiles - A nonlinear dynamic system resolution](#) ...

Jorge M Pires, Manuel Cota (Spain)

[The Development of an Intelligent Tutorial System for System Development](#) ...

D. Al-Jumeily, A. Hussain, M. Alghamdi and D. Lamb (UK), Hani Hamdan (France)

[Smart Classroom: Design of a gateway for Ubiquitous Classroom](#) ...

Bargaoui Hichem, Bdiwi Rawia (Tunisia)

Session C1: Web Technologies for Open Access to Learning

Room: *Majlis* [Tuesday, November 25, 11:00 - 12:00]

Chair: Mohammed Boulmalf

[A Survey of CSCL Script Tools that Support the Design of Collaborative Scenarios](#) ...

Nada Alharbi, Rukshan Athauda and Raymond Chiong (Australia)

[Cloud-based Virtual Desktop Environment for Advanced Online Master's Courses](#) ***

Steffen Moser, Fabian Krapp, Stefanie Bärtele, Kathrin Wunderlich, Gabriele Gröger and Frank Slomka, Hermann Schumacher (Germany)

[An Efficient Implementation of Thin Client Technology for E-learning in the Jazan University](#) ***

Shakeel Ahmed, Khalid Moukali (Saudi Arabia)

Session D1: Dubai 2020 - Smart City Learning Workshop

Room: *Silk B* [Tuesday, November 25, 11:00 - 12:00]

Chair: Carlo Giovannella & Kiran Tangri

Workshop Introduction

Carlo Giovannella (Italy)

Smart City Project – Dubai Silicon Oasis Authority

Mr. Muammar Al Katheeri, (Executive Vice President – Engineering Management, Dubai Silicon Oasis, UAE)

Buffet Lunch: 12:00-13:30

Room: *Atlantis B*

Keynote 2: Prof. Carlo Ratti (Massachusetts Institute of Technology – MIT – USA)

Title: **Senseable City**

Room: *Atlantis C* [Tuesday, November 25, 13:30 - 14:30]

Chair: Kiran Tangri

Session A2: Social Networks & Open Access to Learning

Room: *Atlantis C* [Tuesday, November 25, 14:30 – 15:50]

Chair: Denis Gillet

[Observing Online Discussions in Educational Social Networks: A Case Study](#) ***

Hend S. Al-Khalifa (Saudi Arabia), Amal Al-Ibrahim (United Kingdom)

[Enabling Communities of Practice within MOOCs](#) ***

Akila Sarirete, Tayeb Brahimi (Saudi Arabia)

[Social Learning on the Move - A Research Roadmap](#) ***

Dima Alhadidi, Zakaria Maamar, Farhi Marir (UAE)

[Rich Open Educational Resources for Personal and Inquiry Learning. Agile Creation, Sharing and Reuse in Educational Social Media Platforms](#) ***

María Jesús Rodríguez-Triana, Sten Govaerts, Wissam Halimi, Adrian Holzer, Christophe Salzmann, Andrii Vozniuk, Denis Gillet (Switzerland)

Session B2: Curricula, Policies & Social Concerns for Open Access to Learning

Room: *Silk A* [Tuesday, November 25, 14:30 – 15:50]

Chair: Pradeep Mujumdar

[OERs and MOOCs – the Romanian experience](#) ***

Diana Andone, Radu A. VasIU (Romania)

[Strategizing for the Future: Introducing E-Learning in Educational and Corporate Houses](#) ***

Shazi Shah Jabeen, Anomitra Banerjee, Purab Dilip Bhatia (UAE)

[Mobile learning, a solution to vocational training in Senegal](#)'''

Marie H el ene Mballo, Ibrahima Niang, Alassane Diop (Senegal), Richard Hotte (Canada)

[Open Education and Digital Scholarly Communication in Covenant University](#)'''

Conrad Asotie Omonhinmin, Ademola Olopade, Abolade Afolabi, Aderemi A. Atayero (Nigeria)

Session C2: e-Learning Solutions for Open Access to Learning

Room: *Majlis* [Tuesday, November 25, 14:30 – 15:50]

Chair: Pierre De Villiers

[Intelligent E-Learning Repository System for Sharing Learning Resources](#)'''

Ayidh Alanazi, Maysam F Abbod, Abrar Ullah (United Kingdom)

[Assessment of Mobile Learning System for Health Care Support](#)'''

Toshiyuki Maeda (Japan)

[Adaptive Word Processor Based on Morse Code](#)'''

Ghada Abdulgader Alfattni, Nadine Akkari Adra, Hana Alghamdi, Mona Alzahrani, Manal Alkhamash (Saudi Arabia)

[E-learning Protection of Open Access Platforms](#)'''

Mohammad Derawi (Norway)

Session D2: Dubai 2020 - Smart City Learning Workshop

Room: *Silk B* [Tuesday, November 25, 14:30 - 15:50]

Chair: Carlo Giovannella & Kiran Tangri

Dubai Smart City

Ivano Iannelli, (CEO of Dubai Carbon, UAE)

Brainstorming: Companies' vision on present and future Smart Dubai Learning
(Problems, objectives and viable solutions to implement Smart City Learning in Dubai)

Carlo Giovannella (Italy)

Coffee Break – 15:50-16:30

UNESCO Panel Discussion: Open Access to Learning: Challenges & Perspectives

Room: *Atlantis C* [Tuesday, November 25, 16:30 – 17:45]

Chair: **Dr. Bhanu Neupane**, Program Manager, Open Access to Scientific Information & ICT, UNESCO

Panelists:

Dr. Fanny Klett, Director, German Workforce ADL Partnership Laboratory, Germany

Dr. Alwaleed AlKhaja, Senior Editor, Qscience, Qatar National Foundation, Qatar

Dr. Puneet Kishor, Manager - Science & Data, Creative Commons, San Francisco, USA

Dr. Christopher Leonard, Editorial Director, Qscience, Qatar National Foundation, Qatar

Dr. Pradeep Mujumdar, Indian Institute of Science, Bangalore, India

Departure Time for Dhow Cruise - 19:00

Dhow Cruise & Dinner

Al-Boom Tourist Village [Tuesday, November 25, 20:00 – 22:00]

Wednesday, November 26, 2014

Registration 08:00 -15:00

Keynote 3: Dr. Pierre De Villiers, (*Director, African Online Scientific Information Systems - AOSIS, South Africa*)

Title: **Scholarly Open Access Publishing – Are We Making An Impact?**

Room: *Atlantis C* [Wednesday, November 26, 09:00 - 10:00]

Chair: Fanny Klett

Coffee Break - 10:00-10:30

Session A3: Smart & Virtual Learning Systems

Room: *Atlantis C* [Wednesday, November 26, 10:30 – 12:10]

Chair: Dhiya Al-Jumeily

[Enabling Decision Support Services inside virtual learning environments](#) 123
Andrea Molinari (Italy)

[NFC-enabled Access Control and Management System](#) N/A
Nurbek P. Saparkhojayev, Aybek Nurtayev, Gulnaz Baimenshina, Dautbayeva Aigul (Kazakhstan)

[Moving towards Knowledge Creating Schools](#) 206
Clifford De Raffaele and Micquella Galea (Malta)

[A Course Gamification Platform Supporting Student Motivation and Engagement](#) 115
Darina Dicheva, Keith Irwin, Christo Dichev (USA)

[The Study of Palaeontology through Serious Gaming](#) N/A
Abir J Hussain, Dhiya Al-Jumeily (United Kingdom)

Session B3: Curricula, Policies, and Social Concerns for Open Access to Learning

Room: *Silk A* [Wednesday, November 26, 10:30 – 12:10]

Chair: Glauco Gomes de Menezes

[Assessing the evolution of the Digital Divide across European Union](#) 24
Spyros Polykalas (Greece)

[The "persona effect": Shortcomings in the evaluation of pedagogical agents' embodiment](#) 30
Hamda Darwish Al-Shihi (Oman)

[A Visual Decisional Tool \(VDT\) for Evaluation of the Strategic Plan Performance in Higher Education](#) 146
Mohamed Awad (Egypt)

[Implementing Open Access in a Private Nigerian University: A case study of Covenant University](#) 40
Conrad Asotie Omonhinmin, Edwin Agbaiké, Aderemi A. Atayero (Nigeria)

[Distance Education at the Federal University of Paraná, Brazil: Organization and Evaluation of Pedagogical Work](#) 109
Paula Kuabara, Beatriz Barreto Brasileiro Lanza, Glauco Gomes de Menezes (Brazil)

Session C3: Web Technologies for Open Access to Learning

Room: *Majlis* [Wednesday, November 26, 10:30 – 12:10]

Chair: *Ali Shariq Imran*

[Web-based Homework Systems: The sky is the limit](#) 159
Derar Serhan (UAE)

[Blended Approach for Peer-to-Peer Learning in Engineering Education](#) 19

Jaideep Chandran, Sivachandran Chandrasekaran, Alex Stojcevski (Australia)

[Cross-platform utilization of interactive video for e-learning and edutainment](#) ...

Robert Seeliger, Stefan Arbanowski (Germany)

[E-commerce: A New Framework to Aggregate Culture with Website Design](#) ...

Radwan Abujassar (Turkey), Salah Al-Majeed (Oman)

[Securing E-learning Platforms](#) ...

Mohammad Derawi (Norway)

Session D3: DUBAI 2020 – Smart City Learning Workshop

Room: *Silk B* [Wednesday, November 26, 10:30 – 12:10]

Chair: Carlo Giovannella & Kiran Tangri

[Learning Communities in Smart Cities. Case Studies](#) ...

Diana Andone, Carmen Holotescu, Gabriela Grosseck (Romania)

[Design thinking canvases for smart cities](#) ...

Igor Hawryszkiewicz (University of Technology, Sydney, Australia)

[Knowledge Lifecycle and Smart Cities Learning](#) ...

Saverio Salerno (University of Salerno, Italy)

["Smartness" as complex emergent property of a process. The case of learning eco-systems](#) ...

Carlo Giovannella (University of Rome 'Tor Vergata', Italy)

Buffet Lunch 12:10-13:30

Room: *Atlantis B*

Keynote 4: Dr. Fanny Klett, (*German Workforce Advanced Distributed Learning Partnership Laboratory, Germany*)

Title: **The War for Talent - ICT as a Driving Force Toward Human Capital Development**

Room: *Atlantis C* [Wednesday, November 26, 13:30 - 14:30]

Chair: Rachid Benlamri

Session A4: Smart & Virtual Learning Systems

Room: *Atlantis C* [Wednesday, November 26, 14:30 - 15:50]

Chair: Puneet Kishor

[Wireless Power System Monitoring Using LabVIEW](#) ...

Sinan M. B. Ismael, Mazin Zeki Othman (Iraq)

[Knowledge Based Systems for Ubiquitous e-Healthcare](#) ...

Shaftab Ahmed (Pakistan)

[The Digital Game as a Motivator of Interest in Literature in Brazilian High School Students](#) ...

André Noronha Furtado de Mendonça, Dante Barone, Denise Mallmann Vallerius (Brazil)

[The Forensic Challenger](#) ...

Øyvind Nordhaug, Ali Shariq Imran, Alaeddin MH Alawawdeh, Stewart James Kowalski (Norway)

Session B4: Web Technologies for Open Access to Learning

Room: *Silk A* [Wednesday, November 26, 14:30 - 15:50]

Chair: Pradeep Mujumdar

[Media Annotations in Hyperlinked Pedagogical Platforms](#) ...

Ali Shariq Imran, Faouzi Alaya Cheikh, Stewart James Kowalski (Norway)

[Nascent Research Trends in MOOCs in Higher Educational Institutions: A Systematic Literature Review](#) ...
Nor Fadzleen Sa don (Malaysia)

[Enhancing the Experience of Online Users of Open Education](#) ...
Safa'a AbuJarour, Markus Bick (Germany)

[Security of Virtual networks in cloud computing for education](#) ...
Tayeb Sadiki, Bouselham Achraf (Morocco)

Session C4: eLearning Solutions for Open Access to Learning

Room: *Majlis* [Wednesday, November 26, 14:30 - 15: 50]

Chair: Yacine Atif

[weSPOT: A Personal and Social Toolkit for Inquiry-Based Learning](#) ...
Alexander Mikroyannidis (United Kingdom)

[Learner Profiling for Innovation Education Across Disciplines](#) ...
Alaeddin MH Alawawdeh, Stig R. Ottosson, Stewart James Kowalski, Simon McCallum (Norway)

[Cross-platform utilization of interactive video for e-learning and edutainment](#) ...
Robert Seeliger, Stefan Arbanowski (Germany)

[An Investigation into the Development of a Mobile Multimedia Application to Support the Learning Process for Speech and Language Therapy](#) ...
Dhiya Al-Jumeily, Abir J Hussain (United Kingdom)

Session D4: DUBAI 2020 – Smart City Learning Workshop

Room: *Silk B* [Wednesday, November 26, 14:30 - 15: 50]

Chair: Carlo Giovannella & Kiran Tangri

Working Groups

Coffee Break 15:50-16:30

Session A5: Web Technologies for Open Access to Learning

Room: *Majlis* [Wednesday, November 26, 16:30 - 17:30]

Chair: Said Baadel

[Webdemos: An Interactive, Web-Based Visualization and Simulation Framework for Open Access](#) ...
David Rörich, Michael Bernhard, Thomas Handte, Stephan ten Brink (Germany)

[Towards Secured Learning with Peer to Peer Application using Raspberry Pi](#) ...
Majd Ghareeb (Lebanon)

[Exploratory Study on the Impact of Game-Based Learning on Student Engagement](#) ...
Dima Yousef Al Nsour, Said Baadel, Rama Makad (UAE)

Session B5: Curricula, Policies and Social Concerns for Open Access to Learning

Room: *Silk A* [Wednesday, November 26, 16:30 - 17:50]

Chair: Conrad Omonhinmin

[E-smart system to evaluate faculty members' performance](#) ...
Asma Youssef Sbeih, Omar Karram (Palestine)

[Emerging Technologies For E-Learning and Distance Learning: A Survey](#) ...
Muhammad Arshad, Muhammad Noman Saeed (Saudi Arabia)

[Policy for Development and Use of Open Educational Resources in Covenant University](#) ...
Conrad Asotie Omonhinmin, Adebayo Akomolafe, Omolola Omotosho, Aderemi A. Atayero (Nigeria)

[XML-based Fully Automatic Assessment System for IT Skills](#)'''

Aicha Chorana, Abdallah Lakhdari, Hadda Cherroun, Slimane Oulad Naoui (Algeria)

Session D5: DUBAI 2020 – Smart City Learning Workshop

Room: *Silk B* [Wednesday, November 26, 16:30 - 17: 50]

Chair: Carlo Giovannella & Kiran Tangri

Reports on working groups

Final Report “Dubai 2020 Smart City Learning” & Open Discussion

Gala Dinner

Room: *Atlantis C/D* [Wednesday, November 26, 19:00 – 22:00]

Thursday, November 27, 2014

Desert Safari & Dinner

14:30 - 22:00

(See Safari program at www.icwoal.org)