



**2nd International Conference Europe Middle East & North Africa
Information Systems and Technologies to support Learning**

Held in Private University of Fes (UPF) Morocco from 25 to 27 October 2018.

Preliminary Program (will be updated)

	THURSDAY	FRIDAY	Saturday			
8 h 30	Registration	S21 (Room A1)	S22 (Room A2)	S23 (Room A3)	S24 (Room A4)	Social Event
9 h 30						
10 h 30	Opening Ceremony	Break				
10 h 50	Break	Break				
12 h	Keynote 1 (Room: Amphitheatre)	S21 (Room A1)	S22 (Room A2)	S23 (Room A3)	S24 (Room A4)	
14 h	Lunch	Lunch				
14 h 30	S11 (Room A1)	S12 (Room A2)	S13 (Room A3)	S14 (Room A4)	Keynote 2 (Room: Amphitheatre)	
16 h 10	Break					
16 h 30	S11 (Room A1)	S12 (Room A2)	S13 (Room A3)	S14 (Room A4)	Keynote 3 (Room: Amphitheatre)	
19 h	Break					
20 h	Gala Dinner	Closing Ceremony				

Keynote Talks

Keynote 1	<p>Living Intelligence for Cognitive, Connective, and Collaborative Lives: A New Approach to Safe, Active, and Healthy Lives</p> <p>Professor Koji Kitamura , Researcher of Living Intelligence Research Team at the Artificial Intelligence Research Center of the National Institute of Advanced Industrial Science and Technology (AIST) in Japan</p>	<p>Thursday 10:50-12:00</p>
Keynote 2	<p>Research Challenges in Information Security – Engaging Students at all levels</p> <p>Professor Professor Yann Bocchi , Yann Bocchi, HES-SO Valais / University of Applied Sciences of Western Switzerland, Switzerland. Head of the Software Engineering Unit & Head of the ConEx Lab</p>	<p>Friday 14:30-15:15</p>
Keynote 3	<p>SCHOLARSHIP AS SYSTEM: DIGITAL IMPACTS ON ACADEMIC PRACTICE</p> <p>Professor Bonnie Stewart of Online Pedagogy and Workplace Learning at the University of Windsor, Canada</p>	<p>Monday 16:30 -17:15</p>

Presentation guidelines

- All presentations **should be in English.**
- The duration of a presentation slot is 25 minutes. **You will have 20 minutes for the presentation itself and 5 minutes for questions from the audience.** Since most speakers spend an average of one and half minute per slide, it would probably be best if the number of slides in your presentation is around 15.
- **Please note that all presentations must be pre-loaded in the conference provided laptops at the beginning of each day.**
- **Speakers should arrive in their session room 15 minutes before** the start of their presentation to report to the session chairperson.
- A proctor will also be available in case you need technical assistance.

S11		Information systems Technologies to support Education;
		Session Chairs: - TBA
Thursday, October 25 (14h – 19h) Room: Conf Room A1	ID-5	CATEGORIZATION OF TYPES OF INTERNAUTES BASED ON THEIR NAVIGATION PREFERENCES WITHIN EDUCATIONAL ENVIRONMENTS Hector F Gomez A
	ID-37	Metaheuristic Approaches for Solving University Timetabling Problems: A Review and Case Studies from Middle Eastern Universities Manar Hosny
	ID-53	Information Systems and Technologies Opening New Worlds for Learning to Children with Autism Spectrum Disorders Leila Goosen
	ID-43	A new model of learner experience in online learning environments Yassine Safsouf, Franck Poirier and Khalifa Mansouri
	ID-61	Hybrid Recommendation Approach in Online Learning Environments Mohammed Baidada, Khalifa Mansouri and Franck Poirier
	ID-66	Performance Scoring at University: Algorithm of Student Performance Adnane Rahhou and Mohammed Talbi
	ID-68	Introducing Mobile Technology for Enhancing Teaching and Learning at the College of Business Education in Tanzania: Teachers and Students' Perspectives Godfrey Mwandosya, Calkin Suero Montero and Esther Mbise
	ID-105	Mobile learning oriented towards learner stimulation and engagement Samir Achahod, Khalifa Mansouri and Franck Poirier
	ID-112	A Learning Style Identification Approach in Adaptive E-learning System Hanaa El Fazazi, Abderrazzak Samadi, Mohamed Qbadou, Khalifa Mansouri and Mouhcine Elgarej
	ID-31	Towards the design of an innovative and social hybrid learning based on the SMAC technologies Nadia Chafiq and Mohamed Housni

S12		Software Systems, Architectures, Applications and Tools;
		Session Chairs: - TBA
Thursday, October 25 (14h – 19h) Room: Conf Room A2	ID-25	Analysis of atmospheric monitoring data through micro-meteorological stations, as a crowdsourcing tool for technology integration Maritza Aguirre-Munizaga, Katty Lagos-Ortiz, Vanessa Vergara-Lozano, Karina Real-Avilés, Andrea Sinche-Guzmán, Mitchell John Vásquez-Bermudez and José Hernández-Rosas
	ID-44	Infra SEN: Intelligent Information System for real time monitoring of distributed infrastructures and equipments in rural areas Bala Moussa Biaye, Amadou Coulibaly, Khalifa Gaye, Cherif Ahmed Tidiane Aidara and Serigne Diagne
	ID-56	Comparative Performance Study of QoS Downlink Scheduling Algorithms in LTE System for M2M Communications Mariyam Ouaisa, Abdallah Rhattoy and Mohamed Lahmer
	ID-29	An Efficient Next hop Selection Scheme for Enhancing Routing Performance in VANETs Driss Abada, Abdellah Massaqa and Abdellah Boulouz
	ID-119	Analysis for Predicting a Novel Tool (DRFLLS) for Missing Values Estimation Samaher Al-Janabi
	ID-76	Product-BPAS, a software tool for designing innovative and modular products for agriculture and crafts Cherif Ahmed Tidiane Aidara, Bala Moussa Biaye, Serigne Diagne, Khalifa Gaye and Amadou Coulibaly
	ID-90	Uberisation Business Model Based on Blockchain for Implementation Decentralized Application for Lease/Rent Lodging Hadi Saleh, Dzhonov Azamat and Dmitry Alexandrov

S13		IOT, Smart Cities and People, Wireless, Sensor and Ad-Hoc Networks;
		Session Chairs: - TBA
Thursday, October 25 (14h – 19h) Room: Conf Room A3	ID-28	New failure detection approach for real time for hydraulic networks using the non-acoustic method Bala Moussa Biaye, Amadou Coulibaly, Khalifa Gaye, Edouard Ngor Sarr, Cherif Ahmed Tidiane Aidara and Serigne Diagne
	ID-34	Fault-tolerant Communication for IoT networks Boudaa Abdelghani and Belouadah Hocine
	ID-121	Security Scheme for IoT Environments in Smart Grids Sebastian Cruz-Duarte, Elvis Eduardo Gaona-Garcia, Marco Sastoque-Mahecha and Paulo Alonso Gaona-Garcia
	ID-19	Dynamic airspace sectorization problem using hybrid genetic algorithm Mohammed Gabli, El Miloud Jaara and El Bekkaye Mermri
	ID-104	A semantic framework to improve model-to-model transformations Hamdane Mohamed Elkamel, Karima Berramla, Allaoua Chaoui and Abou El Hassen Benyamina
	ID-111	Exploring the energy consumption of some typical applications: The case of sorting algorithms Ayyoub El Outmani, Mostafa Azizi and El Miloud Jaara
	ID-116	Emergency Navigation Approach Using Wireless Sensor Networks and Cloud Computing Najla Alnabhan, Nadia Al-Aboody and Hamed Al-Rawishidy

S14		Language and Image Processing, Computer Graphics and vision;
		Session Chairs: - TBA
Thursday, October 25 (14h – 19h) Room: Conf Room A4	ID-24	A new parallel method for medical image segmentation using Watershed algorithm and an improved gradient vector flow Meddeber Hayat and Belabbas Yagoubi
	ID-26	Object Detecting on Light Field Imaging: An Edge Detection Approach Yessaadi Sabrina and Laskri Mohamed Tayeb
	ID-46	PAWs Segmentation by intrinsic/discriminant dual modeling based on a hierarchical organization of Arab grapheme and the curves Bezier Kerkour Elmiad Aissa
	ID-48	Language Identification for User Generated Content in Social Media Randa Zarnoufi, Hamid Jaafar and Mounia Abik
	ID-69	Vision-Based Distance Estimation Method Using Single Camera: application to the assistance of visually impaired people Wafa Alshehri, Salma Jarraya and Manar Ali
	ID-92	1D signals descriptors for 3D shape recognition. Kaoutar Baibai, Mohamed Emharraf, Wafae Mrabti, Youssef Ech-Choudani, Khalid Hachami and Benaissa Bellach
	ID-115	Dynamic Textures Segmentation and Tracking using Optical Flow and Active contours Ikram Bida and Saliha Aouat
	ID-140	Process to Improve the Local Accuracy in Engineering Calculations with Lower Computational Cost Ahmed Tahiri

S21		Emerging Technologies in Education Learning innovation in digital age
		Session Chairs: - TBA -
Friday, October 26 (08:30 – 12:30) Room: Conf Room A1	ID-85	CATEGORIZATION OF TYPES OF INTERNAUTES BASED ON THEIR NAVIGATION PREFERENCES WITHIN EDUCATIONAL ENVIRONMENTS James K. Ngugi and Leila Goosen
	ID-16	Key Elements of Educational Augmented and Virtual Reality Applications Houda Elkoubaiti and Radouane Mrabet
	ID-22	Teaching and Learning How to Program Without Writing Code Michel Adam, Moncef Daoud and Patrice Frison
	ID-30	Towards a dynamics of techno-pedagogical innovation within the university: Case study HASSAN II University of Casablanca Nadia Chafiq, Mohamed Housni and Mohamed Moussetad
	ID-77	Information System of Performance Management and Reporting at University: Example of Student Scorecard Adnane Rahhou and Mohammed Talbi
	ID-54	Technologies to Inspire Education in Science, Engineering and Technology Through Community Engagement Patricia Gouws and Leila Goosen
	ID-38	Ontology-based Modeling for a Personalized MOOC Recommender System Sara Assami, Najima Daoudi and Rachida Ajhoun
	ID-67	Emerging technologies and learning innovation in the new learning ecosystem Helene Fournier, Heather Molyneaux and Rita Kop
	ID-129	Exploring the Acceptance of Mobile Technology Application for Enhancing Teaching and Learning at the College of Business Education in Tanzania Godfrey Mwandosya, Calkin Suero Montero and Esther Mbise
	ID-60	Promoting Pro-environmental Practices about Trees in Children Using Infrared Thermography Technology Maria Eduarda Ferreira, João Crisóstomo and Rui Pitarma

S22		Computers & Security, Ethics and Data-forensic;	
		Session Chairs: - TBA	
Friday, October 26 (08:30 – 12:30) Room: Conf Room A2	ID-49	Tracking attacks data through log files using MapReduce	Yassine Azizi, Mostafa Azizi and Mohamed Elboukhari
	ID-50	Toward a new integrated approach of information security based on Governance, Risk and Compliance	Mounia Zaydi and Nassereddine Bouchaib
	ID-51	A Novel Steganography Algorithm based on Alpha Blending Technique using Discrete Wavelet Transform (ABT-DWT)	Ayidh Alharbi and Tahar Kechadi
	ID- 55	A comparison of American and Moroccan Governmental Security Approaches	Anass Rabii, Saliha Assoul, Khadija Ouazzani Touhami and Ounsa Roudiès
	ID-73	Polyvalent fingerprint biometric system for authentication	Mohamed El Beqqal and Mostafa Azizi
	ID-89	Bitcoin Difficulty, A Security Feature	Abdenaby Lamiri, Kamal Gueraoui and Gamal Zeggwagh
	ID- 126	Classification of ransomware based on artificial neural networks	Noura Ouerdi, Tarik Hajji, Aurelien Palisse, Jean-Louis Lanet and Abdelmalek Azizi
	ID- 135	On the efficiency of scalar multiplication on the elliptic curves	Ezzouak Siham and Azizi Abdelmalek
	ID- 78	Vulnerability on Cloud Computing	Mohamed Belaid, Benahmed Khelifa and Mohamed Belghachi
	ID-91	Result oriented time correlation between security and risk assessments, and individual environment compliance framework	Dimo Dimov and Yuliyana Tsonev

S23		Health Informatics, and Medical Informatics Security;
		Session Chairs: - TBA
Friday, October 26 (08:30 – 12:30) Room: Conf Room A3	ID-23	PATIENTS LEARNING PROCESS SUPPORTING CHANGE IN IDENTITIES AND LIFE STYLES Linda Askenäs and Jan Aidemark
	ID- 32	Privacy Preserving Requirements for Sharing Health Data in Cloud Insaf Boumezbeur and Karim Zarour
	ID- 99	IOT system for self-diagnosis of heart diseases using mathematical evaluation of cardiac dynamics based on probability theory Juan Sebastian Piedrahita Gonzalez, Carlos Gutierrez Ardila, Juan David Cubillos Calvachi, Carlos Enrique Montenegro Marin and Paulo Alonso Gaona Garcia
	ID- 106	Modeling the OWASP Most Critical WEB Attacks Yassine Ayachi, El Hassane Ettifouri, Jamal Berrich and Toumi Bouchentouf
	ID-128	Rating Microfinance Products Consumers Using Artificial Neural Networks Hajji Tarik and Mohammed Ouazzani Jamil
	ID- 81	Measurement of co-deployment of IT quality standard: Application to ISO9001, CMMI and ITIL. Dahar Hind and Roudies Ounsa
	ID- 144	Applying Agile Procedure Model to improve ERP systems implementation strategy Majda EL MARIOULI
	ID-124	A meta-model design for therapeutic games using Kinect Sensor Ibtissem Mettahi and Mohammed Rahmoune
	ID-60	Using IoT and Social Networks for Enhanced Healthy Practices in Buildings Maria Eduarda Ferreira, João Crisóstomo and Rui Pitarma

S24	Big Data Analytics and Applications, Intelligent Data Systems, and Machine Learning;	
	Session Chairs: - TBA	
Friday, October 26 (08:30 – 12:30) Room: Conf Room A4	ID- 18	Clustering strategy for scientific workflow applications in IaaS cloud environment Sid Ahmed Makhoulouf and Belabbas Yagoubi
	ID-59	Open Government Data: Problem Assessment of Machine Processability Hanae Elmekki, Dalila Chiadmi and Hind Lamharhar
	ID-72	Toward an evaluation model for Open Government Data portals Kawtar Younsi Dahbi, Hind Lamharhar and Dalila Chiadmi
	ID-84	NoSQL scalability performance evaluation over Cassandra Maryam Abbasi, Pedro Martins, Filipe Sá, Filipe Caldeira, Cristina Wanzeller, Paulo Tomé and Pedro Furtado
	ID-96	A novel filter approach for band selection and classification of hyperspectral remotely sensed images using normalized mutual information and support vector machines Hasna Nhaila, Asma Elmaizi, Elkebir Sarhrouni and Ahmed Hammouch
	ID-97	Differences between clusterings as distances in the covering graph of partitions Giovanni Rossi
	ID-109	A New Supervised Learning Based Ontology Matching Approach Using Neural Networks Meriem Ali Khoudja, Messaouda Fareh and Hafida Bouarfa
	ID-123	VACIT: Tool for consumption, analysis and Machine learning for LOD resources on CKAN instances Álvaro Varón-Capera, Paulo Alonso Gaona-García, Jhon Francined Herrera-Cubides, Carlos Enrique Montenegro-Marín and Adriana Gómez-Acosta
	ID-136	Selecting Best Machine Learning Techniques for Breast cancer prediction and Diagnosis Youness Khourdifi and Bahaj Mohamed

S31		Artificial Intelligence, High Performance Computing,
		Session Chairs: - TBA
Friday, October 26 (14:30 – 19:00) Room: Conf Room A1	ID-6	IDENTIFICATION OF HUMAN BEHAVIOR PATTERNS BASED ON THE GSP ALGORITHM Hector F Gomez A
	ID-21	Matchstick Games: On Removing a Matchstick Without Disturbing the Others Godfried Toussaint
	ID-79	Multi-cloud resources optimization for users applications execution Anas Mokhtari, Mostafa Azizi and Mohammed Gabli
	ID-80	An Algorithm of Conversion between Relational Data and Graph Schema Zakariyaa Ait El Mouden, Abdeslam Jakimi and Moha Hajar
	ID-82	Self-calibration of the fundus camera using the Genetic Algorithm Mostafa Taibi, Rabha Allaoui and Raja Touahni
	ID-86	Utilizing Faults and Time to Finish to Estimate the Number of Software Test Workers Using Artificial Neural Networks and Genetic Programming Alaa Sheta, Sultan Aljahdali and Malik Braik
	ID-101	A New Approach Based on Bat Algorithm for Inducing Optimal Decision Trees Classifiers Moussa Labbadi, Mohamed Cherkaoui, Yassine El Houm and M'Hammed Guisser
	ID-113	A comparative analysis of control strategies for stabilizing a quadrotor Ikram Bida and Saliha Aouat

S32		Organizational Models and Information Systems and Technologies; ;
		Session Chairs: - TBA
Friday, October 26 (14:30 – 19:00) Room: Conf Room A1	ID-104	A semantic framework to improve model-to-model transformations Hamdane Mohamed Elkamel, Karima Berramla, Allaoua Chaoui and Abou El Hassen Benyamina
	ID-134	Financial Perspectives of Server Virtualization Implementation in Public Sector Billy Mathias Kalema and Anna Muchandigona
	ID-39	An embedded prototype system for people with disabilities using Google's speech Maritza Aguirre-Munizaga, Vanessa Vergara-Lozano, Carlota Delgado, Joel Ramírez-Yela and Nestor Vera-Lucio
	ID-47	Measuring Semantic Coverage rates provided by cached regions in mediation systems Ouafa Ajarroud, Ahmed Zellou and Ali Idri
	ID-130	Using Probabilistic Direct Multi-Class Support Vector Machines to Improve Mental States Based-Brain Computer Interface. Mounia Hendel and Fatiha Hendel
	ID-13	Overcoming Knowledge Discovery in Database Challenges by the Tendency to the Intelligent Data Analysis Samaher Aljanabi, Mahdi Abed Salman and Ibrahim Al-Shourbaji