



# *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.*

## **Advanced Program**

	<b>THURSDAY</b>		<b>FRIDAY</b>	<b>Saturday</b>							
8 h 30	<b>Registration</b>		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;"><b>S21</b> (Room A1)</td> <td style="width: 25%; text-align: center;"><b>S22</b> (Room A2)</td> <td style="width: 25%; text-align: center;"><b>S23</b> (Room A3)</td> <td style="width: 25%; text-align: center;"><b>S24</b> (Room A4)</td> </tr> </table>	<b>S21</b> (Room A1)	<b>S22</b> (Room A2)	<b>S23</b> (Room A3)	<b>S24</b> (Room A4)	Social Event			
<b>S21</b> (Room A1)	<b>S22</b> (Room A2)	<b>S23</b> (Room A3)	<b>S24</b> (Room A4)								
9 h 30	<b>Opening Ceremony</b>										
10 h 30	<b>Break</b>		<b>Break</b>								
10 h 50	<b>Keynote 1 (Room: Amphitheatre)</b>		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;"><b>S21</b> (Room A1)</td> <td style="width: 25%; text-align: center;"><b>S22</b> (Room A2)</td> <td style="width: 25%; text-align: center;"><b>S23 (Room A3)</b></td> <td style="width: 25%; text-align: center;"><b>S24</b> (Room A4)</td> </tr> </table>	<b>S21</b> (Room A1)	<b>S22</b> (Room A2)	<b>S23 (Room A3)</b>	<b>S24</b> (Room A4)				
<b>S21</b> (Room A1)	<b>S22</b> (Room A2)	<b>S23 (Room A3)</b>	<b>S24</b> (Room A4)								
12 h	<b>Lunch</b>		<b>Lunch</b>								
14 h	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;"><b>S11</b> (Room A1)</td> <td style="width: 25%; text-align: center;"><b>S12</b> (Room A2)</td> <td style="width: 25%; text-align: center;"><b>S13</b> (Room A3)</td> <td style="width: 25%; text-align: center;"><b>S14</b> (Room A4)</td> </tr> </table>	<b>S11</b> (Room A1)	<b>S12</b> (Room A2)	<b>S13</b> (Room A3)	<b>S14</b> (Room A4)		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;"><b>S31</b> (Room A1)</td> <td style="width: 33%; text-align: center;"><b>S32</b> (Room A2)</td> <td style="width: 34%; text-align: center;"><b>Keynote 2 (Room: Amphitheatre)</b></td> </tr> </table>		<b>S31</b> (Room A1)	<b>S32</b> (Room A2)	<b>Keynote 2 (Room: Amphitheatre)</b>
<b>S11</b> (Room A1)	<b>S12</b> (Room A2)	<b>S13</b> (Room A3)	<b>S14</b> (Room A4)								
<b>S31</b> (Room A1)	<b>S32</b> (Room A2)	<b>Keynote 2 (Room: Amphitheatre)</b>									
16 h 10	<b>Break</b>		<b>Break</b>								
16 h 30	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;"><b>S11</b> (Room A1)</td> <td style="width: 25%; text-align: center;"><b>S12</b> (Room A2)</td> <td style="width: 25%; text-align: center;"><b>S13</b> (Room A3)</td> <td style="width: 25%; text-align: center;"><b>S14 (Room A4)</b></td> </tr> </table>	<b>S11</b> (Room A1)	<b>S12</b> (Room A2)	<b>S13</b> (Room A3)	<b>S14 (Room A4)</b>		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;"><b>S31</b> (Room A1)</td> <td style="width: 33%; text-align: center;"><b>S32</b> (Room A2)</td> <td style="width: 34%; text-align: center;"><b>Keynote 3 (Room: Amphitheatre)</b></td> </tr> </table>	<b>S31</b> (Room A1)	<b>S32</b> (Room A2)	<b>Keynote 3 (Room: Amphitheatre)</b>	
<b>S11</b> (Room A1)	<b>S12</b> (Room A2)	<b>S13</b> (Room A3)	<b>S14 (Room A4)</b>								
<b>S31</b> (Room A1)	<b>S32</b> (Room A2)	<b>Keynote 3 (Room: Amphitheatre)</b>									
19 h			<b>Closing Ceremony</b>								
20 h	<b>Gala Dinner</b>										

# Keynote Talks

<b>Keynote 1</b>	<p><b>Living Intelligence for Cognitive, Connective, and Collaborative Lives: A New Approach to Safe, Active, and Healthy Lives</b>          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 25 Oct 10:50-12:00</p>
<b>Keynote 2</b>	<p><b>SCHOLARSHIP AS SYSTEM: DIGITAL IMPACTS ON ACADEMIC PRACTICE</b>          Professor Bonnie Stewart of Online Pedagogy and Workplace Learning at the University of Windsor, Canada  <b>(Webinare)</b></p>	<p>Friday 26 Oct 14:30-15:15</p>
<b>Keynote 3</b>	<p><b>Research Challenges in Information Security – Engaging Students at all levels</b>          Professor Professor Yann Bocchi , Yann Bocchi, HES-SO Valais / University of Applied Sciences of Western Switzerland, Switzerland.          Head of the Software Engineering Unit &amp; Head of the ConEx Lab</p>	<p>Friday 26 Oct 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.

<b>S11</b>		<b>Information systems Technologies to support Education</b>
		<b>Session Chair : H��l��ne Fournier</b>
<b>Thursday, October 25 (14h – 19h) Room: Conf Room A1</b>	<b>ID-5</b>	<b>CATEGORIZATION OF TYPES OF INTERNAUTES BASED ON THEIR NAVIGATION PREFERENCES WITHIN EDUCATIONAL ENVIRONMENTS</b> Hector F Gomez A
	<b>ID-37</b>	<b>Metaheuristic Approaches for Solving University Timetabling Problems: A Review and Case Studies from Middle Eastern Universities</b> Manar Hosny
	<b>ID-53</b>	<b>Information Systems and Technologies Opening New Worlds for Learning to Children with Autism Spectrum Disorders</b> Leila Goosen
	<b>ID-43</b>	<b>A new model of learner experience in online learning environments</b> Yassine Safsouf, Franck Poirier and Khalifa Mansouri
	<b>ID-61</b>	<b>Hybrid Recommendation Approach in Online Learning Environments</b> Mohammed Baidada, Khalifa Mansouri and Franck Poirier
	<b>ID-66</b>	<b>Performance Scoring at University: Algorithm of Student Performance</b> Adnane Rahhou and Mohammed Talbi
	<b>ID-68</b>	<b>Introducing Mobile Technology for Enhancing Teaching and Learning at the College of Business Education in Tanzania: Teachers and Students' Perspectives</b> Godfrey Mwandosya, Calkin Suero Montero and Esther Mbise
	<b>ID-105</b>	<b>Mobile learning oriented towards learner stimulation and engagement</b> Samir Achahod, Khalifa Mansouri and Franck Poirier
	<b>ID-112</b>	<b>A Learning Style Identification Approach in Adaptive E-learning System</b> Hanaa El Fazazi, Abderrazzak Samadi, Mohamed Qbadou, Khalifa Mansouri and Mouhcine Elgarej
	<b>ID-31</b>	<b>Towards the design of an innovative and social hybrid learning based on the SMAC technologies</b> Nadia Chafiq and Mohamed Housni
	<b>ID-83</b>	<b>Information Systems to Support Learning in an Information and Communication Technology Module</b> Dalize van Heerden and Leila Goosen

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

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

<b>S14</b>	<b>Language and Image Processing,, Computer Graphics and vision</b>	
	<b>Session Chair : Ahmad LAAROUSSI</b>	
<b>Thursday, October 25 (14h – 19h) Room: Conf Room A4</b>	<b>ID-24</b>	<b>A new parallel method for medical image segmentation using Watershed algorithm and an improved gradient vector flow</b> Meddeber Hayat and Belabbas Yagoubi
	<b>ID-26</b>	<b>Object Detecting on Light Field Imaging: An Edge Detection Approach</b> Yessaadi Sabrina and Laskri Mohamed Tayeb
	<b>ID-46</b>	<b>PAWs Segmentation by intrinsic/discriminant dual modeling based on a hierarchical organization of Arab grapheme and the curves Bezier</b> Kerkour Elmiad Aissa
	<b>ID-48</b>	<b>Language Identification for User Generated Content in Social Media</b> Randa Zarnoufi, Hamid Jaafar and Mounia Abik
	<b>ID-69</b>	<b>Vision-Based Distance Estimation Method Using Single Camera: application to the assistance of visually impaired people</b> Wafa Alshehri, Salma Jarraya and Manar Ali
	<b>ID-92</b>	<b>1D signals descriptors for 3D shape recognition.</b> Kaoutar Baibai, Mohamed Emharraf, Wafae Mrabti, Youssef Ech-Choudani, Khalid Hachami and Benaissa Bellach
	<b>ID-115</b>	<b>Dynamic Textures Segmentation and Tracking using Optical Flow and Active contours</b> Ikram Bida and Saliha Aouat
	<b>ID-140</b>	<b>Process to Improve the Local Accuracy in Engineering Calculations with Lower Computational Cost</b> Ahmed Tahiri
	<b>ID-146</b>	<b>RECOGNITION FROM ANCIENT EPIGRAPHICAL INSCRIPTION USING OCR AND NLP FOR TAMIL CHARACTERS</b> Chokkalingam, Samir Brahim Behaouri and Nirmala

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

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



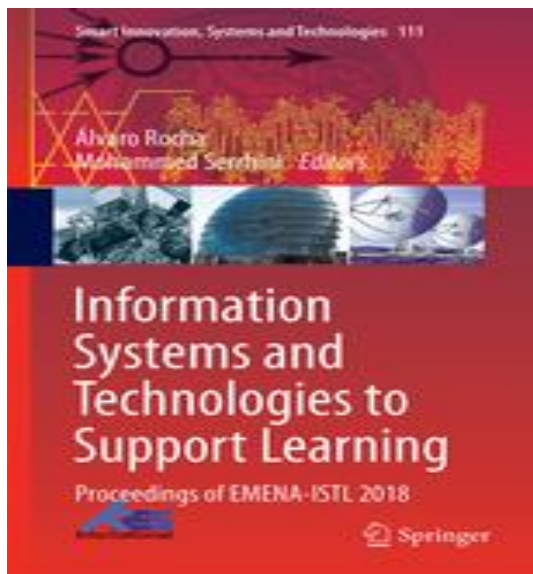
<b>S23</b>		<b>Health Informatics, and Medical Informatics Security</b>
		<b>Session Chair : Zakaria ITAHRIOUAN</b>
<b>Friday, October 26 (08:30 – 12:30) Room: Conf Room A3</b>	<b>ID-23</b>	<b>PATIENTS LEARNING PROCESS SUPPORTING CHANGE IN IDENTITIES AND LIFE STYLES</b> Linda Askenäs and Jan Aidemark
	<b>ID- 32</b>	<b>Privacy Preserving Requirements for Sharing Health Data in Cloud</b> Insaf Boumezbeur and Karim Zarour
	<b>ID- 99</b>	<b>IOT system for self-diagnosis of heart diseases using mathematical evaluation of cardiac dynamics based on probability theory</b> Juan Sebastian Piedrahita Gonzalez, Carlos Gutierrez Ardila, Juan David Cubillos Calvachi, Carlos Enrique Montenegro Marin and Paulo Alonso Gaona Garcia
	<b>ID- 106</b>	<b>Modeling the OWASP Most Critical WEB Attacks</b> Yassine Ayachi, El Hassane Ettifouri, Jamal Berrich and Toumi Bouchentouf
	<b>ID-128</b>	<b>Rating Microfinance Products Consumers Using Artificial Neural Networks</b> Hajji Tarik and Mohammed Ouazzani Jamil
	<b>ID- 81</b>	<b>Measurement of co-deployment of IT quality standard: Application to ISO9001, CMMI and ITIL.</b> Dahar Hind and Roudies Ounsa
	<b>ID- 144</b>	<b>Applying Agile Procedure Model to improve ERP systems implementation strategy</b> Majda EL MARIOULI
	<b>ID-124</b>	<b>A meta-model design for therapeutic games using Kinect Sensor</b> Ibtissem Mettahi and Mohammed Rahmoune
	<b>ID-62</b>	<b>Using IoT and Social Networks for Enhanced Healthy Practices in Buildings</b> Gonçalo Marques and Rui Pitarma

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

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

<b>S32</b>		<b>Organizational Models and Information Systems and Technologies</b>
		<b>Session Chair : Godfrey Mwandosya</b>
<b>Friday, October 26 (14:30 – 19:00) Room: Conf Room A1</b>	<b>ID-134</b>	<b>Financial Perspectives of Server Virtualization Implementation in Public Sector</b> Billy Mathias Kalema and Anna Muchandigona
	<b>ID-39</b>	<b>An embedded prototype system for people with disabilities using Google's speech</b> Maritza Aguirre-Munizaga, Vanessa Vergara-Lozano, Carlota Delgado, Joel Ramírez-Yela and Nestor Vera-Lucio
	<b>ID-47</b>	<b>Measuring Semantic Coverage rates provided by cached regions in mediation systems</b> Ouafa Ajarroud, Ahmed Zellou and Ali Idri
	<b>ID-130</b>	<b>Using Probabilistic Direct Multi-Class Support Vector Machines to Improve Mental States Based-Brain Computer Interface.</b> Mounia Hendel and Fatiha Hendel
	<b>ID-13</b>	<b>Overcoming Knowledge Discovery in Database Challenges by the Tendency to the Intelligent Data Analysis</b> Samaher Aljanabi, Mahdi Abed Salman and Ibrahim Al-Shourbaji
	<b>ID-29</b>	<b>An Efficient Next hop Selection Scheme for Enhancing Routing Performance in VANETs</b> Driss Abada, Abdellah Massaq and Abdellah Boulouz

## PROCEEDINGS PUBLICATION



**Publisher: Springer International Publishing**

[Smart Innovation, Systems and Technologies](https://www.springer.com/gp/book/9783030035761)

ISSN: 2190-3018

ISBN 978-3-030-03576-1

<https://www.springer.com/gp/book/9783030035761>

**\*\* Indexing: The books of this series are submitted to ISI Proceedings, EI-Compendex, SCOPUS, Google Scholar and Springerlink \*\***

Proceedings of the 2nd international conference Europe Middle East & North Africa Information Systems and Technologies to support Learning (EMENA-ISTL 2018) held in Fez, Morocco from 25 to 27 October 2018

## EXTENDED VERSION PUBLICATION

Authors with best papers will be invited to prepare and submit extended versions to be considered, after a new peer review, for publication in several special issues of scientific journals indexed by ISI/SCI, SCOPUS and DBLP, among others.