



The 3rd International Conference on Cloud Computing Technologies and Applications – CloudTech'17

October 24-26 2017, Rabat, MOROCCO

www.macc.ma/cloudtech17

Program

Session	Topics
S-I	A Cloud Architectures and Virtualization
	B Big Data and applications
S-II	A Cloud Security and privacy (I)
	B Cloud Services and Applications
S-III	A Cloud energy efficiency
	B Distributed Cloud / Cloud Brokering / Edge Computing
S-IV	A High Performance Computing (HPC) in/with the Cloud
	B Cloud Security and privacy (II)

	Monday, October 23 rd	Tuesday, October 24 th	Wednesday, October 25 th
08:00 08:30 09:00		Welcome/Registration (At ENSIAS)	Welcome/Registration (At ENSIAS)
09:00 09:10 09:30		Opening Ceremony Room 1	Keynote 3 (Pr.Eleni Karatza) Room 1
09:30 10:00		Coffee Break	
10:10 10:20 10:30 10:45 11:00		Keynote 1 (Pr. Dhableswar K. Panda) Room 2	Coffee Break
11:00 11:30 11:50			Poster session
12:10 12:15 12:18 12:19 12:20 12:30		S-I (A) Room 1	S-I (B) Room 2
		Tutorial 1 (Pr. Sidi Ahmed Mahmoudi) Room 3	
12:30 14:00		Lunch Break	Lunch Break
14:00 14:20 14:50 15:00		Keynote 2 (Pr. Ching-Hsien Hsu) Room 1	Keynote 4 (Pr. Abdelmounaam Rezgui) Room 1
15:00 15:10 15:20 15:30 15:45 16:00 16:10 16:20 16:30		S-II (A) Room 1	S-II (B) Room 2
		Invited Talk 1 (Pr. Radouane Mrabet) Room 1	
		Coffee break	
16:30 17:00	Welcome/ Registration (At ENSIAS)	Coffee Break	
17:00 17:20 17:30 17:40 18:00 18:20 18:30		S-III (A) Room 1	S-III (B) Room 2
		Tutorial 2 (Pr. Jamie Alnasir) Room 1	Invited Talk 2 (Pr.Mohamed Ba khouya) Room 2
		Closing ceremony	
19:30 23:00		Gala Dinner	

Talks

Keynote 1	HPC Meets Cloud: Opportunities and Challenges in Designing High-Performance MPI and Big Data Libraries on Virtualized InfiniBand Clusters Dhabaleswar K. Panda, Ohio State University, USA	Tuesday 10:00 -11:00
Keynote 2	Towards Extreme Scale Computing - A System Perspective in the Cloud and Big Data Era Ching-Hsien Hsu, Chung Hua University, Taiwan	Tuesday 14:00 – 15:00
Keynote 3	Scheduling Different Types of Applications in the Cloud Eleni Karatza, Aristotle University of Thessaloniki, Greece	Wednesday 9:00 – 10:00
Keynote 4	Improving Fault Tolerance in Large Scale Cloud Data Centers through Software Defined Networking Abdelmounaam Rezgui, (C2BD) Lab, New Mexico Tech, USA	Wednesday 14:00 – 15:00
Tutorial 1	Parallel and Distributed solutions using GPU and Cloud platforms (PDGC) Sidi Ahmed Mahmoudi, University of Mons, Belgium	Tuesday 11:00 – 12:30
Invited Talk 1	New research trends in IoT for Education Radouane Mrabet, ENSIAS, Mohammed V University, Rabat, Morocco.	Wednesday 15:00 – 16:00
Tutorial 2	Distributed computing for High-throughput biological datasets, computational biology, genomics and transcriptomics Jamie Alnasir, Royal Holloway, University of London, UK	Wednesday 16:30 – 17:30
Invited Talk 2	Towards a Data-Driven Platform using IoT and Big Data Technologies for Energy Efficient Buildings Mohamed Ba khouya, IUR, Morocco	Wednesday 16:30 – 17:30

Presentation guidelines:

- All presentations **should be in English**.
- The time provided for **Full** oral presentations is 15 min (presentation and discussion).
- The speakers should give their slides to the session chair before the beginning of each session.

S-I (A)	Cloud Architectures and Virtualization
	Chair: -Pr. Dhableswar K. Panda, Ohio State University, USA
Tuesday, October 24 11:00–12:30	<p>Using Branch-and-Price to maximize redundant network utilization in cloud datacenter (ID-24) Shuo Wang, Jing Li, Qiqi Wang and Hongjie Zhang</p> <p>Performance Evaluation of Container and Virtual Machine Running Cassandra Workload (ID-7) Sogand Shirinbab, Lars Lundberg and Emiliano Casalicchio</p> <p>Cloud architecture for digital phenotyping and automation (ID-34) Olivier Debauche, Saïd Mahmoudi, Pierre Manneback, Mathieu Massinon, Nassima Tadrist, Frédéric Lebeau and Sidi Ahmed Mahmoudi</p> <p>Minimizing Biased VM Selection in Live VM Migration (ID-58) Suhub Bani Melhem, Anjali Agarwal, Nishith Goel and Marzia Zaman</p> <p>Using Cloud Solution for Medical Image Processing: Issues and Implementation Efforts (ID-10) Mbarek Marwan, Ali Kartit and Hassan Ouahmane</p>

S-I (B)	Cloud Security and privacy (I)
	Chair: -Pr. Abdellah Touhafi, VUB Brussels, Belgium
Tuesday, October 24 11:00–12:30	<p>Pairing free and implicit certificate based signcryption scheme with proxy re-encryption for secure cloud data storage (ID-8) An Braeken, Placide Shabisha, Abdellah Touhafi and Kris Steenhaut</p> <p>A new cryptographic method for cloud computing (ID-12) Ahmed EL-Yahyaoui, and Mohamed Dafir Ech-chrif El Kettani</p> <p>A Review of Big Data Processing Security in Cloud Environments (ID-19) Imene Bouleghlimat and Salima Hacini</p> <p>Performance Analysis of Intrusion Detection Systems in the Cloud Computing (ID-32) Mostapha Derfouf and Mhsine Eleuldj</p> <p>Cloud Computing: Overview and Risk Identification Based on Classification by Type (ID-1) Belbergui Chaimaa, Elkamoun Najib and Rachid Hilal</p>

S-II (A)	Big Data and applications
	Chair: -Pr. Abdelmounaam Rezgui, (C2BD) Lab, New Mexico Tech, USA
Tuesday, October 24 15:00–16:30	<p>Machine Learning applications in supply chains (ID-43) Halima Bousqaoui, Said Achchab and Kawtar Tikito</p> <p>A Smart Metering Platform Using Big Data and IoT Technologies (ID-57) Anass Berouine, Fadwa Lachhab, Youssef Nait Malek, Mohamed Bakhouya and Radouane Ouladsine</p> <p>A Machine Learning Approach for Sentiment Analysis in the Standard or Dialectal Arabic Facebook Comments (ID-14) Abdeljalil Elouardighi, Mohcine Maghfour, Hafdalla Hammia and Fatima-Zahra Aazi</p> <p>Towards Advanced Secure MapReduce Framework Across Untrusted Hybrid Clouds (ID-67) Amine Haouari, Mostapha Zbakh, Rachid Cherkaoui, Yassir Samadi and Najlae Kasmi</p> <p>The impact of payment delays on bankruptcy prediction A comparative analysis of variables selection models and neural networks (ID-46) Fatima Zahra Azayite and Said Achchab</p> <p>A Database for Amazigh Speech Recognition Research (AMZSRD) (ID-30) Safâa El Ouahabi, Mohamed Atounti and Mohamed Bellouki</p>

S-II (B)	Cloud Services and Applications
	Chair: -Pr. Jamie Alnasir, Royal Holloway, University of London, UK
Tuesday, October 24 15:00–16:30	<p>On Automated Cloud Bursting and Hybrid Cloud Setups Using Apache Mesos (ID-15) Noha Xue, Harek Haugerud and Anis Yazidi</p> <p>Toward a Meta-Model for Elasticity Management in Cloud Applications (ID-41) Saddam Hocine Hiba and Meriem Belguidoum</p> <p>Towards a fast multimedia search engine in the cloud (ID-38) Mohammed Amin Belarbi, Said Mahmoudi, Ghalem Belalem and Sidi Ahmed Mahmoudi</p> <p>Temporary Materialized Views in Cloud Data Warehouses through a Web Service (ID-33) Ettaoufik Abdelaziz and Ouzzif Mohamed</p> <p>Protecting Medical Images in Cloud Using Visual Cryptography Scheme (ID-9) Mbarek Marwan, Ali Kartit and Hassan Ouahmane</p> <p>X-ETL : a new method for designing multidimensional models (ID-11) Nawfal El Moukhi, Ikram El Azami, Abdelhak and Abdelaaziz Mouloudi</p>

S-III (A)	Cloud energy efficiency
	Chair: -Pr. Mohamed Bakhouya, IUR, Morocco
Tuesday, October 24 17:00–18:30	<p>Cloud autoscaling for HTTP/2 workloads (ID-39) Maria Carla Calzarossa, Luisa Massari, Momin I.M. Tabash and Daniele Tessera</p> <p>An Intelligent Scheduling Algorithm for Energy Efficiency in Cloud Environment Based on Artificial Bee Colony (ID-16) Awatif Ragmani, Amina El Omri, Noredine Abghour, Khalid Moussaid and Mohammed Rida</p> <p>Energy-efficient on caching in Named Data Networking: A survey (ID-44) Safae Rahel, Abdellah Jamali and Said El Kafhali</p> <p>Efficient Allocation of VMs in servers of Data Center to reduce energy consumption (ID-76) Djouhra Dad and Ghalem Belalem</p> <p>A Self-Adaptive Very Fast Simulated Annealing Based on Hidden Markov Model (ID-2) Mohamed Lalaoui, Abdellatif El Afia and Raddouane Chiheb</p>

S-III (B)	Distributed Cloud / Cloud Brokering / Edge Computing
	Chair: -Pr. Olivier Debauche, UMONS, Belgium
Tuesday, October 24 17:00–18:30	<p>An Innovative Approach to Interconnect Distributed Cloud based Online Labs (ID-71) Abdellah Touhafi, An Braeken, Said Ben Alla and Mostapha Zbakh</p> <p>A parallel Semantic sentiment analysis (ID-28) Madani Youness, Erritali Mohammed and Bengourram Jamaa</p> <p>Dynamic web service composition using and/or directed graph (ID-25) Hajar Elmaghraoui, Laila Benhlima and Dalila Chiadmi</p> <p>Combination POS Taggers on Amazigh Texts (ID-50) Samir Amri, Lahbib Zenkouar and Mohamed Outahajala</p> <p>Verbal morphological Analyzer/Generator for Amazigh moods based on XFST (ID-60) Rachid Ammari, Zenkouar Lahbib and Outahajala Mohammed</p>

S-IV (A)	High Performance Computing (HPC) in/with the Cloud
	Chair: -Pr. Eleni Karatza, Aristotle University of Thessaloniki, Greece
Wednesday, October 25th 11:30–12:30	<p>Load Balancing Between Nodes in a Volunteer Cloud Computing by taking into Consideration the Number of Cloud Services Replicas (ID-27) Sofiane Mounine Hemam, Ouassila Hioual and Ouided Hioual</p> <p>External clustering validation in Big Data context (ID-64) Soumeya Zerabi and Souham Meshoul</p> <p>Performance Evaluation of StarPU Schedulers with Preconditioned Conjugate Gradient Solver on Heterogeneous (Multi-CPU/Multi-GPU) Architecture (ID-74) Najlae Kasmi, Mostapha Zbakh, Yassir Samadi, Rachid Cherkaoui and Amine Haouari</p> <p>Performance prediction using support vector machine for the configuration of optimization algorithms (ID-6) Abdellatif El Afia and Malek Sarhani</p>

S-IV (B)	Cloud Security and privacy (II)
	Chair: - Pr. Claude Tadonki, MINES ParisTech, France
Wednesday, October 25th 11:30–12:30	<p>Smart Pattern Authentication System for Cloud Consumers (ID-54) Abdelwahhab Satta and Sihem Mostefai</p> <p>DDoS Attack Detection using Machine Learning Techniques in Cloud Computing Environments (ID-59) Marwane Zekri, Said El Kafhali, Noureddine Aboutabit, and Youssef Saadi</p> <p>A New Technique Ensuring Privacy in Big Data: Variable t-Closeness for Sensitive Numerical Attributes (ID-61) Zakariae El Ouazzani and Hanan El Bakkali</p> <p>A secure virtualization architecture based on a nested Nova hypervisor (ID-68) Hala Zineb Naji and Mostapha Zbakh</p>

	Poster session
<p>Wednesday, October 25th 10:30 – 11:30</p>	<p>A Cloud-based RFID for VANET Access filtering (ID-17) Melaouene Noussaiba, Elmakfalji Chaimae and Romadi Rahal</p> <p>Survey: Risk assessment models for cloud computing: evaluation criteria (ID-26) MANNANE NADA, BEN CHARHI Youssef, BOULAFDOUR Brahim and REGRAGUI Boubker</p> <p>A framework for Big Data analytics in Secure Network of Video Surveillance Systems Based on Images Indexation (ID-52) Abderrahmane EZ-ZAHOUT and Jawad OUBAHA</p> <p>FADETPM: Novel Approach of File Assured Deletion Based on Trusted Platform Module (ID 53) IGARRAMEN Zakaria and HEDABOU Mustaha</p> <p>Solid-Flow : A Flow Rules Security Mechanism for SDN (ID-63) Youssef Qasmaoui and Abdelkrim Haqiq</p> <p>Towards conflicts prevention among privacy policies: A comparative study of major privacy laws and regulations for healthcare (ID-70) Souad Sadki, Hanan El Bakkali and Mohammed Akhthab</p> <p>Context-Aware Routing Protocol based on PSO for Mobile WSN (ID-72) Asmae El ghazi, Zineb Aarab and Belaid Ahiod</p> <p>Issues and Threats of Data stored in Cloud (ID-73) Maryem Berrezzouq and Abdellatif Elghazi</p> <p>An NLP based text-to-speech synthesizer for Moroccan Arabic (ID-22) Rajae Moumen, Raddouane Chiheb, Rdouan Faizi, Abdellatif El Afia</p>