


Program

GMT+1 (Morocco Time)		Opening Ceremony + Sessions 1&2 in Parallel		
Tuesday November 24, 2020	08:45-09:15	<ul style="list-style-type: none"> - Prof. Mohammed El Rhachi, President of Mohammed V University, Rabat, Morocco - Prof. Ilham Berrada, Director of ENSIAS, Rabat, Morocco - Prof. Mohamed Essaaidi, Chair of CloudTech'20 - Prof. Mostapha Zbakh, Chair of CloudTech'20 	Opening ceremony	
	09:15-10:15	<p style="text-align: center;">Secure Blockchain Ecosystem – The Network is my Computer</p> <p style="text-align: center;">Prof. Chunming Rong University of Stavanger, Norway Chair, IEEE Computer Society Blockchain, Co-Founder, bitYoga.com and Dataunitor.com</p> <p><u>Moderator:</u> Prof. Pierre Manneback, Umons, Mons, Belgium</p> <hr/> <p style="text-align: center;">Discussion (15 min)</p>		Keynote talk
	ZOOM	ID		
		Link		
	10:15-10:30	Break		
		<p style="text-align: center;">Session 1 : Security and Privacy Chairs: Prof. An Brakean, Prof. Abdellah Touhafi</p>	<p style="text-align: center;">Session 2 : Smart cities/Farming and Mobile Technologies Chairs : Prof. Abdelkarim Haqiq, Prof. Amine Berqia</p>	
	ZOOM			

	10:30-12:10	<p>Efficient Mobile User Authentication Service Based on User's Memories with Privacy Preservation and User Untraceability (ID-14) An Braeken and Abdellah Touhafi</p> <p>Secure, Efficient and Dynamic Data Search using Searchable Symmetric Encryption (ID-74) Mohammed Saad Shaikh, Jatna Bavishi and Reema Patel</p> <p>Cloud computing security classifications and taxonomies: a comprehensive study and comparison (ID-78) Najat Tissir, Said El Kafhali and Nourddine Aboutabit</p> <p>ESSMAR: Edge Supportive Secure Mobile Augmented Reality Architecture for Healthcare (ID-15) An Braeken, Pawani Porambage, Amirthan Puvaneswaran and Madhusanka Liyanage</p> <p>Towards Smart Blockchain-Based Framework for Privacy Preserving Data sharing in Smart Cities (ID-39) Driss El Majdoubi, Hanan El Bakkali and Souad Sadki,</p>	<p>Big Data Storage and Analysis for Smart Farming (ID-58) Fabrice Nolack Fote, Saïd Mahmoudi, Sidi Ahmed Mahmoudi and Amine Roukh</p> <p>Performance Evaluation of Newly Implemented Resource Blocks (RB) Allocation Schemes on NS-3 simulator for mMTC 5G NR (New Radio) Femtocells (ID-70) Ismail Angri, Abdellah Najid and Mohammed Mahfoudi</p> <p>Improvements of Centroid Localization Algorithm for Wireless Sensor Networks (ID-96) Abdelali Hadir, Khalid Zine-Dine and Mohamed Bakhouya</p> <p>An overview of recommender systems in the context of smart cities (ID-64) Rabie Madani, Abderrahmane Ez-Zahout and Abdellah Idrissi</p> <p>A re-engineering approach for extension of the Tourist Guide Knowledge Base (ID-40) Asya Stoyanova–Doycheva, Todorka Glushkova, Nevena Moraliyska and Emil Doychev</p>	15 min presentations +5min discussions
	12:10-14:00	Break		



N. B.

- 15 min presentations for each paper via Zoom Platform in the scheduled time. Authors of presented paper must be ready to answer questions during their session discussion.
- Presentations will be broadcasted via YouTube CLOUDTECH Channel during the conference days. Authors can ask organizers to remove their own videos from YouTube just after the conference.


Channel link: https://www.youtube.com/channel/UCb1bruVnUm7xTp_Y_hFzyEw

GMT+1 (Morocco Time)		Sessions 3&4 in Parallel		
Tuesday November 24, 2020	14:00-15:00	<p>Cloud and Fog Computing Resource Allocation and Scheduling of Complex Real-Time Applications</p> <p>Prof. Helen Karatza Aristotle University of Thessaloniki, Greece</p> <p><u>Moderator: Prof. An Breaken</u>, VUB, Brussels, Belgium</p> <hr/> <p>Discussion (15 min)</p>		Keynote talk
	ZOOM	ID		
		Link		
	15:00-16:00	<p>Cloud-based Intelligent Remote Patient Monitoring</p> <p>Prof. Abdelmounaam Rezgui Illinois State University, USA</p> <p><u>Moderator: Prof. Abdellah Touhafi</u>, VUB, Brussels, Belgium</p> <hr/> <p>Discussion (15 min)</p>		Keynote talk
	ZOOM	ID		
		Link		
	16:00-16:15	Break		
		<p>Session 3 : Cloud services Chairs : Prof. Pierre Manneback, Prof. Sidi Ahmed Mahmoudi</p>	<p>Session 4: Machine Learning Chairs : Prof. Abdelmounaam Rezgui, Prof. Abdellatif El Afia</p>	
	ZOOM			

	<p>16.15-17:55</p>	<p>NFaaS. A new cloud service for water distribution network monitoring (ID-11) Rayane El Sibai, Jacques Bou Abdo, Chady Abou Jaoude, Jacques Demerjian, Yousra Chabchoub and Raja Chiky</p> <p>An overall statistical analysis of AI tools deployed in Cloud computing and networking systems (ID-10) Ikhlasse Hamzaoui, Benjamin Duthil, Vincent Courboulay and Hicham Medromi</p> <p>Multi-task Offloading and Computational Resources Management in a Mobile Edge Computing Environment (ID-102) Mohamed El Ghmary, Youssef Hmimz, Tarik Chanyour and Mohamed Ouçamah Cherkaoui Malki</p> <p>Deployment of Containerized Deep Learning Applications in the cloud (ID-51) Rim Doukha, Sidi Ahmed Mahmoudi, Mostapha Zbakh and Pierre Manneback</p> <p>Autonomous Provisioning of Preemptive Instances in Google Cloud for Maximum Performance Per Dollar (ID-87) Jonas Kruger Svensson, Hårek Haugerud and Anis Yazidi</p>	<p>A Review of Credit Card Fraud Detection Using Machine Learning Techniques (ID-53) Nadia Boutaher, Amina Elomri, Noredine Abghour, Khalid Moussaid and Mohamed Rida</p> <p>Machine Learning for Anomaly Detection. Performance Study considering Anomaly Distribution in an Unbalanced Dataset (ID-37) Salma El Hajjami, Jamal Malki, Mohammed Berrada and Bouziane Fourka</p> <p>Novel Convex Polyhedron Classifier for Sentiment Analysis (ID-73) Soufiane El Mrabti, Mohamed Lazaar, Mohammed Al Achhab and Hicham Omara</p> <p>A Recommendation approach based on Correlation and Co-occurrence within social learning network (ID-7) Sonia Souabi, Asmaâ Retbi, Mohammed Khalidi Idrissi and Samir Bennani</p> <p>Graph-based Model for Negative e-WOM Influence in Social Media (ID-66) Abderraouf Dembri and Mohamed Gharzouli</p>	<p>15 min presentations +5min discussions</p>
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GMT+1 (Morocco Time)		Sessions 5&6 in Parallel		
Wednesday November 25, 2020	9:00-10:00	<p>Data Science and AI: Trends, Myths and Challenges</p> <p>Prof. Maria Fasli Institute for Analytics and Data Science at the University of ESSEX, UK</p> <p>Moderator: Prof. Mohammed Essaaidi, ENSIAS, Rabat, Morocco</p> <hr/> <p>Discussion (15 min)</p>		Keynote talk
	ZOOM	ID		
		Link		
	10:00-11:00	<p>Artificial intelligence and modeling activities in imaging and medical physics application</p> <p>Prof. Othmane Bouhali Texas A&M University, Qatar</p> <p>Moderator: Prof. Mohammed Benjelloun, Umons, Mons, Belgium</p> <hr/> <p>Discussion (15 min)</p>		Keynote talk
	ZOOM	ID		
		Link		
	11:00-11:15	Break		
		Session 5 : Big data Chairs : Prof. Claude Tadonki ,	Session 6 : Deep Learning Chairs : Prof. Othmane Bouhali ,	
	ZOOM			

Wednesday November 25, 2020	11:15-12:55	<p>Big Data Architectures Benchmark for Forecasting Electricity Consumption (ID-52) Houda Daki, Asmaa El Hannani and Hassan Ouahmane</p> <p>A Big Data Placement Strategy in Geographically Distributed Datacenters (ID-59) Laila Bouhouch, Mostapha Zbakh and Claude Tadonki</p> <p>New Approach for implementing big Datamart using NoSQL Key-Value stores (ID-41) Abdelhak Khalil and Mustapha Belaisaoui</p> <p>Big data for sustainability. A qualitative analysis (ID-6) Wail El Hilali, Abdellah El Manouar and Mohammed Abdou Janati Idrissi</p> <p>Bloom filter and its variants for the optimization of MapReduce's algorithms. A review (ID-55) Fatimazahra Ezzaki, Noredine Abghour, Amina Elomri, Khalid Moussaid and Mohamed Rida</p>	<p>Deep Learning and Tensorflow for Tracking People's Movements in a Video (ID-97) Bornia Jemai, Ali Frihida and Olivier Debauche</p> <p>SAHAR-LSTM. An enhanced Model for Sentiment Analysis of Hotels'Arabic Reviews based on LSTM (ID-21) Manal Nejjari and Abdelouafi Meziane</p> <p>Medical Image Registration via Similarity Measure based on Convolutional Neural Network (ID-2) Li Dong, Yongzheng Lin and Yishen Pang</p> <p>Survey of Automated Deep Neural Networks Implementation on FPGAs (ID-42) El Hadrami Cheikh Tourad</p> <p>Machine learning and datamining methods for hybrid Iot intrusion detection (ID-27) Rachid Ait Moulay, Abdellatif El Ghazi and Zine El Abidine Abdelali</p>	15 min presentations +5min discussions
	12:55-14:00	Break		

GMT+1 (Morocco Time)		Sessions 7&8 in Parallel		
Wednesday November 25, 2020	14:00-15:00	<p>HPC and AI Meet Cloud: Opportunities and Challenges in Designing High-Performance MPI and Deep Learning Libraries for Public Cloud</p> <p>Prof. Panda Dhableswar Ohio State University, USA</p> <p>Moderator: Prof. Claude Tadonki, Mines ParisTech, Paris, France</p> <hr/> <p>Discussion (15 min)</p>		Keynote talk
	ZOOM	ID		
		Link		
	15:00-15:15	Break		
		<p>Session 7. High-performance computing Chairs : Prof. Panda Dhableswar,</p>	<p>Session 8. Image processing using Artificial Intelligence Chairs : Prof. Mohsine El Euldj, Prof Hanan Bakkali</p>	
ZOOM				

	15:15-17:15	<p>High-performance computing under availability constraints to solve dense triangular system (ID-61) Mounira Belmabrouk and Mounir Marrakchi</p> <p>Run Time Optimization using a novel implementation of Parallel-PSO for real-word applications (ID-54) Amine Chraibi, Said Ben Alla, Abdellah Touhafi and Abdellah Ezzati</p> <p>Evaluation of NDVI and NDWI parameters in CPU-GPU Heterogeneous Platforms based CUDA (ID-22) Fatima Zahra Guerrouj, Rachid Latif and Amine Saddik</p> <p>Better Edges not Bigger Graphs. An Interaction-Driven Friending Algorithm for the Next-Generation Social Networks (ID-95) Aadil Alshammari and Abdelmounaam Rezgui</p> <p>A Cross-Layered Interference in Multichannel MAC of VANET (ID-77) Fadlallah Chbib, Khoukhi, Fahs, Haydar and Khatoun</p> <p>Modelling and simulation of photovoltaic modules using combined analytical – numerical methods (ID-72) (Poster) Khalid Chennofi and Mohammed Ferfra</p>	<p>Towards Breast Cancer Response Prediction using Artificial Intelligence and Radiomics (ID-75) Yassine Amkrane, Mohammed El Adoui and Mohammed Benjelloun</p> <p>An Image processing Player Acquisition and Tracking System for E-sports (ID-88) Nicolaas Luwes and Joaquim Vieira</p> <p>Density Based Support Vector Machine (DBSVM) (ID-100) Karim Elmoutaouakil, Abdellatif El Ouissari, Abdellah Touhafi and Nabil Aharrane</p> <p>A Business Process Modeling Notation Extension for Real Time Handling – Application to Novel Coronavirus (2019-nCoV) management process (ID-29) Asma Ouarhim, Jihane Lakhrouit and Karim Baina</p> <p>A Model Of A Biometric Recognition System Based On The Hough Transform Of Libor Masek and 1-D Log-Gabor Filter (ID-81) Djalal Rafik Hammou, Sidi Ahmed Mahmoudi, Reda Adjoudj and Boubaker Mechab</p>	15 min presentations + 5min discussions
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**5th International Conference on Cloud Computing
and Artificial Intelligence: Technologies and
Applications – CloudTech'20**

November 24–26, 2020 – **Online**

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GMT+1 (Morocco Time)		Sessions 9&10 in Parallel		
Thursday November 26.		Session 9: IoT Chairs : Prof. Hassan Berbia, Prof. Ali Ouacha	Session 10 : Computational Intelligence Chairs : Prof. Mostafa Daoudi, Prof Abdelhak Lakhouaja	
	ZOOM			

	10:00–12:00	<p>Internet of Things learning, a practical case for smart building automation (ID-33) Olivier Debauche, Saïd Mahmoudi and Yahya Moussaoui</p> <p>Open Phytotron. A New IoT Device for Home Gardening (ID-34) Rachida Ait Abdelouahid, Olivier Debauche, Saïd Mahmoudi, Abdelaziz Marzak, Pierre Manneback and Frédéric Lebeau</p> <p>An IoT data logging instrument for monitor and early efficiency loss detection at a photovoltaic generation plant (ID-90) Nicolaas Luwes and Burger Lubbe</p> <p>Formal Modeling and Validation of Micro Smart Grids Based on IoT ReDy Architecture (ID-80) Kaoutar Hafdi and Abderahman Kriouile</p> <p>The key layers of IoT architecture (ID-98) Alae-Eddine Bouaouad, Adil Cherradi, Saliha Assoul and Nissrine Souissi</p>	<p>A New Recurrent Neural Network Fuzzy Mean Square Clustering Method (ID-99) Abdellah Touhafi and Karim El Moutaouakil</p> <p>Learning Analytics based on Bayesian Optimization of Support Vector Machines with Application to Student Success Prediction in Mathematics Course (ID-13) Salim Lahmiri, Raafat G. Saade, Danielle Morin and Fassil Nebebe</p> <p>Block Sizes Control For an Efficient Real Time Record Linkage (ID-48) Hamid Naceur Benkhaled, Djamel Berrabah and Faouzi Boufares</p> <p>An Artificial Neural Networks Based Ensemble System to Forecast Bitcoin Daily Trading Volume (ID-12) Salim Lahmiri, Raafat G. Saade, Danielle Morin and Fassil Nebebe</p> <p>A distributed large graph coloring algorithm on Giraph (ID-18) Assia Brighen, Hachem Slimani Slimani, Abdelmounaam Rezgui Rezgui, Hamamache Kheddouci Kheddouci and Assia Brighen</p> <p>Quality Approach to Analyze the Causes of Failures in MOOC (ID-67) (Poster) Soukaina Sraidi, Smaili El Miloud, Salma Azzouzi and My El Hassan Charaf</p>	15 min presentations +5min discussions
	12:00–12:00	Closing ceremony		
	ZOOM			