

Program of NTIC'22 Conference

New Technologies of Information and Communication 2, Virtual Conference
Second IEEE International Conference, December 21-22, 2022
Abdalhafid Boussouf University, Mila, Algeria

Global Program

21 December

8.30 to 9.00 **Opening Session by honorary chairs**

Prof. Amirouche Bouchelaghem, Rector of Mila University,
Prof. Abdellah Kouzou, President of IEEE Algeria Section,

9.00 to 9.45 **Keynote Speakers:**

Prof. Merouane DEBBAH, Chief Researcher at Technology Innovation Institute of
Abu Dhabi ,

6G: What will it be?

Dr. Christian BARDON, President & CEO VotreCity Monaco,

**Development of one region via the global approach of VotreCity:
Education and Agriculture Examples.**

10 to 12.20 **Session 1: Artificial Intelligence and its applications (1)**

13 to 15.20 **Session 2: Communication technologies and Internet of Things IoT**

22 December (parallel sessions)

9.00 to 11.20 **Session 3: Artificial Intelligence and its applications (2)**

9.00 to 11.20 **Session 4: Security of Information Systems and Communication**

12.00 to 14.00 **Session 5: Artificial vision and Image Processing**

12.00 to 14.20 **Session 6: Machine learning for Medical imaging**

14.20 to 14.30 **Closing Session**

December 26, 2022, NVIDIA Workshop Day:

Detailed Program

The First Day: December 21, 2022

8.30 to 9.00 Opening Session by honorary chairs

<https://meet.google.com/tdb-muog-okj>

Prof. Amirouche BOUCHELAGHEM, Rector of Abdalhafid Boussouf Mila University,
Prof. Abdellah KOUZOU, President of IEEE Algeria Section,

9.00 to 10.00 Keynote Speakers:

<https://meet.google.com/tdb-muog-okj>

Prof. Merouane DEBBAH, Chief Researcher at Technology Innovation Institute of
Abu Dhabi

6G: What will it be?

Dr. Christian BARDON, President & CEO VotreCity Monaco,

**Development of one region via the global approach of VotreCity:
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Session 1: Artificial Intelligence and its applications (1)

President: Dr. Nardjes BOUCHEMAL and Dr. Aissa BOULMERKA

URL: <https://meet.google.com/tdb-muog-okj>

December 21, 2022

Time	ID	Title	Authors
10:00 10:20	14	Survey on Self-adaptation Planning Optimization Techniques	Roumaysa Bousselidj, Soufiane Boulehouache, Brahimi Saïd
10:20 10:40	53	New hybrid Particle Swarm and Dragonfly Algorithm for features selection	Benmessahel Bilal
10:40 11:00	46	Graph Convolutional Networks for Designing Collaborative Filtering-Based Health Recommender Systems	Boudaa Boudjemaa, Bestani Imen, Benadjrouda Nouredine
11:00 11:20	50	Artificial Neural Network for Multi-label Medical Text Classification	Tiaiba Hafida, Lyazid Sabri, Abdelghani Chibani and Okba Kazar
11:20 11:40	27	Improving Self-Adaptation by Combining MAPE-K, Supervised Machine/Deep Learning	Lecheheb Sabah, Brahimi Saïd, Boulehouache Soufiane
11:40 12:00	17	Improving text classification using text summarization	Abdelkader Kaddour, Zellal Nassim, Lamri Sayad
12:00 12:20	51	Pre-disaster Management based Machine Learning, IoT and Big Data: Survey and future direction	Bouzeraa Yehya, Bouchemal Nardjas, Zendaoui Nada

Session 2: Communication technologies and Internet of Things IoT

President: Prof. Ramdane MAAMRI

URL: <https://meet.google.com/tdb-muog-okj>

December 21, 2022

Time	ID	Title	Authors
13:00 13:20	19	A Multi-Threshold Energy approach for Energy Harvesting Wireless Sensor Networks	Abdelmalek Bengheni
13:20 13:40	24	Cloud Computing Interoperability: An overview	Messaouda Ayachi, Hassina Nacer, Hachem Slimani
13:40 14:00	10	Low Cost LoRaWAN Image Acquisition System for Low Rate Internet of Things Applications	Pedro Correia, Marcela Gomes, Gabriel Martins, Renato Panda
14:00 14:20	6	Review on Reinforcement Learning-based approaches for Service Function Chain deployment in 5G networks	Elbey Nour Elimane, Soheyb Ayad, Bilal Benhaya
14:20 14:40	52	TDMA-CADH CROSS-LAYER APPROACH FOR IoT PERFORMANCE ASPECTS	Raid Boudi, Zibouda Aliouat, Chirihane Gherbi
14:40 15:00	29	Fuzzy logic inference system based quality prediction model for HD HEVC video streaming over wireless networks	Farouk Boumehrez, Abdelhakim Sahour, Nouredine Doghmane
15:00 15:20	25	Design of a novel congestion-aware mechanism for Network on Chip	Nehnouh Chakib

The second Day: December 22, 2022

Session 3: Artificial Intelligence and its applications (2)

President: Dr. Soufiene BOUKELKOUL

URL: <https://meet.google.com/tdb-muog-okj>

Time	ID	Title	Authors
9:00 9:20	15	Skyline Computation Based on Previously Computed Results	Chouaib Bourahla, Ramdane Maamri, Said Brahimi
9:20 9:40	16	Statistical tool for Arabic text	Imedjdouben Fayçal
9:40 10:00	47	Prosodic Modelling based Speaker Identification	Boubakeur Khadidja Nesrine, Debyeche Mohamed, Amrouche Aissa
10:00 10:20	9	Deep Reinforcement Learning Applied to NLP: A Brief Survey	Ouamane Nour El Houda, Hacene Belhadef
10:20 10:40	49	Modeling Learner Profiles using Ontologies and Machine Learning	Samia Bousalem, Fouzia Benchikha, Massinissa Chelghoum
10:40 11:00	18	DZRobot4Kids: a mobile robot application for educational games	Ammar Hamlaoui, Housseem Eddine Bendaas, Meriem Belguidoum
11:00 11:20	26	Towards a model driven approach for integrating NWN models in CINCO	Amel Dembri, Mohammed Redjimi

Session 4: Security of Information Systems and Communication

President: Dr. Naila MARIR and Dr. Madjed BENCHEIKHLEHOCINE,

URL: <https://meet.google.com/ebh-rqme-ueb>

December 22, 2022

Time	ID	Title	Authors
9:00 9:20	11	Comparison towards of Integration of Machine Learning Methods for Intrusion Detection Systems	Bougueroua Nassima, Smaïne Mazouzi
9:20 9:40	4	A Novel Pipeline to Recommend Intrusion Detection Systems Configurations	Mohamed Amine Daoud, Abdelkader Ouared, Youcef Dahmani
9:40 10:00	41	Fault Prediction Using Supervised and Unsupervised Learning Algorithms in Cyber Physical Systems	Azeri Nabila, Zeinb Zouikri, Meriem Rezgui
10:00 10:20	35	Assimilation of ERP Systems in the Public Health Sector: a Flexible and Efficient Approach	Maya Souilha Benabdelhafid, Mahmoud Boufaïda
10:20 10:40	28	Towards a Framework for Context-Based online person identification	Brahimi Said, Founas BahaEddine
10:40 11:00	23	Evolution of passive user's interests by analyzing Social Network activities	Nour El Houda Boulkrinat, Nadjia Benblidia, Abdelkrim Meziane
11:00 11:20	5	Solving Multiconstrained Quality of service Multicast Routing Problem using Simulated Annealing Algorithm	Sabrina Tadjine, Ali Lemouari, Messaoud Kara

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Session 5: Artificial vision and Image Processing

President: Dr. Aissa BOULMERKA

URL: <https://meet.google.com/tdb-muog-okj>

December 22, 2022

Time	ID	Title	Authors
12:00 12:20	43	Deep Neural Networks based Contactless Fingerprint Recognition	Abderrahmane Herbadji, NoubelGuermat, Zahid Akhtar
12:20 12:40	13	Image Retrieval Based on Dynamic Weighted Patterns	Rahima Boukerma, Bachir Boucheham, Salah Bougueroua
12:40 13:00	55	Improved Face Recognition Rate Using Convolutional Neural Networks	Randa Nchet, Tarik Boudghene Stambouli
13:00 13:20	54	Active Contour Based Segmentation and CNN for Palmprint Recognition	Wafaa Mohammed Cherif, Tarik Boudghene Stambouli
13:20 13:40	45	Semantic segmentation for remote sensing images using U-net and its variants	Sarra Koko, Aissa Boulmerka
13:40 14:00	48	Real-Time Detection of Vehicle License Plates Numbers	Aissa Amrouche, , Nabil Hezil, Youssouf Bentrchia and AHCÈNE ABED

Session 6: Machine learning for Medical imaging

President: Dr. Sofia KOUAH

URL: <https://meet.google.com/ebh-rqme-ueb>

December 22, 2022

Time	ID	Title	Authors
12:00 12:20	3	Evaluation of Local Binary Pattern for Osteoporosis Classification	Meriem Mebarkia, Abdallah Meraoumia, Lotfi Houam
12:20 12:40	40	Comparative Analysis for Blood Vessel Segmentation based on CNN Models	Meriem Mouzai, Faiza Farhi, Zaid Bousmina
12:40 13:00	63	The Effect of Regularization on the MAP-OSEM Algorithm for PET Reconstruction	Abdelwahhab Boudjelal, Bilal Attallah, Abderrahim Elmoataz
13:00 13:20	2	The Early Detection of Autism within Children through Facial Recognition; A Deep Transfer Learning Approach	Lubnaa Abdurrahman, Poolan Marikannan Booma
13:20 13:40	21	Hybrid Convolution-Transformer models for breast cancer classification using histopathological images	Abdelwahhab Boudjelal, Naceur-Eddine Boukezzoula
13:40 14:00	57	Multi-modal medical image fusion based on Guided image filter and curvelet transform	Hedifa Dida, Fella Charif, Abderrazak Benchabane
14:00 14:20	62	Multimodal Medical Images using Rigid Iconic Registration based on Flower Pollination Algorithm and Butterfly Optimization Algorithm	Sarra Babahenini, Fella Charif, AbdelmalikTaleb-Ahmed