



Conference Program

08:30- 08:45 – Opening Ceremony « Welcome to ICASA’2022 Conference»

Google Meet: <https://meet.google.com/egm-pirb-xss>

- Word of Welcome from **Dr Redouani L**, the dean of the science and technology faculty
- Word of Welcome from **Dr Benmachiche A**, General Chair ICASA’2022
- Word of Welcome from **Pr Haddad Salim** Rector of Chadli Bendjedid El-Tarf University

08:45-09:30: Opening keynote1: " Automatic Natural Language Processing: Review, Evolutions and Applications"

Pr Mohamed Tayeb, LASKRI.

09:30-10:00: Opening keynote 2: "Artificial Intelligence: From Reasoning to Machine Learning"

Pr Smaine, MAZOUZI.

10:00-10:30: Opening keynote 3: "Machine Learning to Deep Learning"

Pr Makhlouf, DERDOUR.

First International Conference on Autonomous Systems and their Applications (ICASA'22)

May 24th, 2022 - Online

Chadli Bendjedid El-Tarf University



SESSION 1 (Central Library) Chairs: Pr Laskri MT. & Pr Derdour M.

Google Meet: <https://meet.google.com/egm-pirb-xss>

| 10 h 30 - 12 h 30 | | |
|---|--|--|
| 10:30 - 10:50 | Djalila Tliba, Nadjet Frissou and Mohamed Tahar Kimour | Forecasting the New Cases of Tuberculosis in Algeria Using Random Forest as a Machine Learning Model. |
| 10:50 - 11:10 | Linda Bellal and Kamila Khemis. | Multi-classification of thyroid nodules using Machine learning and deep learning |
| 11:10 - 11:30 | Mohammed Mounir Bouhamed, Oussama Kamel, Gregorio Diaz and Allaoua Chaoui. | Service request monitoring using Petri nets and model at runtime |
| 11:30 - 11:50 | Kamel Eddine Heraguemi and Abderrahim Zemmit. | Bio-inspired optimization algorithms for improving a variable step size Maximum Power Point Tracking method for photovoltaic systems |
| 11: 50- 12:10 | Ouahiba Remadnia, Faiz Maazouzi and Housseem Eddine Azzag. | RecTulips : A Python Library for Recommendation System |
| 12:10 - 12:30 | Ines Boutabia, Abdelmadjid Benmachiche and Maroua Hammadi. | A particle swarm optimization approach for a robot in an environment with obstacles |
| 12 h 30 - 14 h 00: Break (Lunch) | | |
| 14h 00 - 15 h 40 | | |
| 14:00 - 14:20 | Labeni Merouane, Chaouki Boufenar and Taffar Mokhtar. | Object Detection and Classification in Videos via Optical Flow and VGGNet |
| 14:20 - 14:40 | Ibtissem Gasmi, Fouzia Anguel and Dalel Merzougui. | Hybrid Movie Recommendation System using LDA and PSO approaches |
| 14:40 - 15:00 | Salah Eddine Halledj and Amar Bouafassa. | Intelligent Control of Efficient Bridgeless SEPIC PFC converter Powered BLDC Motor |
| 15:00 - 15:20 | Zeroual Imed Eddine and Azzag Housseem Eddine. | Sign Language Recognition |
| 15:20 - 15:40 | Chemam Chaouki, Hafed Zarzour and Sari toufik | Video annotation system in education |

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SESSION 2 (Central Library) Chairs: Dr Zarzour H. & Dr Ahmim A.

Google Meet: <https://meet.google.com/sii-yfzh-euf>

| 10 h 30 - 12 h 30 | | |
|---|--|--|
| 10:30 - 10:50 | Zouheyr Tamrabet, Toufik Marir and Farid Mokhati. | Applying the ESQuMo Quality Model to Medical Imaging Embedded Software |
| 10:50 - 11:10 | Noureddine Gouasmi, Mahnane Lamia, Yacine Lafifi and Amira Lebbad. | Assessing collaborative learning using collaborative quizzes |
| 11:10 - 11:30 | Rochdi Bouchebbat. | Networked control of high degree of freedom robot manipulator using True Time simulator |
| 11:30 - 11:50 | Radia Touahri, Nabiha Azizi, Nacereddine Hammami and Farid Benaida. | A survey on disc and cup segmentation methods of retina fundus images |
| 11: 50- 12:10 | Abdelkader Zitouni, Fatiha Benkouider, Fatima Chouireb and Mourad Reggab. | Tumor Detection in Mammography Images using Discrete Wavelet Transform and Evidence Fusion Technique |
| 12:10 - 12:30 | Prasun Bhattacharjee, Rabin K. Jana and Somenath Bhattacharya. | Novel Artificial Intelligence-Assisted Meta-heuristic Method for Augmenting the Annual Profit of Wind Farm |
| 12 h 30 - 14 h 00: Break (Lunch) | | |
| 14h 00 - 15 h 40 | | |
| 14:00 - 14:20 | Khaoula Boumahni Abdelmadjid Benmachiche, Amina Makhlof and Aziza Merdaci. | Trajectory planning of a mobile robot based on the BFOA Algorithm |
| 14:20 - 14:40 | Fatima Zohra Merabet and Djamel Benmerzoug. | Towards a Conceptual architecture for Enabling Self-Adaptive IoT-Based Systems: A Service-Based Approach |
| 14:40 - 15:00 | Rania Zaimi, Mohamed Hafidi and Lamia Mahnane. | Phishing website detection using deep learning and machine learning. |
| 15:00 - 15:20 | Djoughri Mohamed Fouzi. | deep learning-based semantic skills matching for resumes selection |
| 15:20 - 15:40 | Mezaache Chaabane, Benmachiche Abdelmadjid and Ahmim Ahmed | Optimized placement of services in cloud/fog computing infrastructures for the internet of things |

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SESSION 3 (Central Library) Chairs: Dr CHEFROUR D. & Dr KHEDAIRIA S.

Google Meet: <https://meet.google.com/dgh-kbmz-jgi>

| 10 h 30 - 12 h 30 | | |
|---|---|---|
| 10:30 - 10:50 | Rezgui Wail and Rezki Nafissa. | Extreme Learning Machine vs Back-Propagation for the faults smart classification of Tennessee Eastman Process |
| 10:50 - 11:10 | Maroua Hammadi and Mohammed Redjimi. | Hierarchical routing protocols (Energy-aware) for wireless sensor network: a survey |
| 11:10 - 11:30 | Abderahmane Gaham and Ahlem Melouah. | Optimal trajectory planning for autonomous system using PSO and deep neural network |
| 11:30 - 11:50 | Chaouki Araar. | Design and FPGA Implementation of Low-complexity Pruned DCT Approximation for Image Compression in Wireless Multimedia Sensors Networks |
| 11:50 - 12:10 | Benaïda Farid, Habiba Beleili, Nacer Eddine Hammami and Radia Touahri. | Implementation of the FIR filter under DSP and FPGA (comparative study) |
| 12:10 - 12:30 | Ahmed Ramzi Houalef, Christine Makasa, Lakhdar Djelloul Mazouz and Mohammed Boumediene. | Object Detection and Tracking with DeepSORT: Application in Autonomous Vehicles |
| 12 h 30 - 14 h 00: Break (Lunch) | | |
| 14h 00 - 15 h 40 | | |
| 14:00 - 14:20 | Hiba Hachichi, Halim Boualam, Mohammed Bouziane Errahmani and Oussama Harbouche. | An Approach for transforming Activity Diagram |
| 14:20 - 14:40 | Mohamed Cherif Amara Korba, Hakim Doghmane and Faiz Maazouzi. | Robust Cepstral Feature for Automatic Speech Recognition |
| 14:40 - 15:00 | Nourredine Oukas and Menouar Boulif. | Modeling and Assessment of Energy Harvesting WSNs with Unreliable Sensors for Military Applications |
| 15:00 - 15:20 | Selma Zeggada, Sofiane Aouag and Djalal Hedjazi. | Integrating Reinforcement Learning with Analytic Hierarchy Process for Autonomous Service Web Composition. |
| 15:20 - 15:40 | Maatallah Majda and Abbaci Houda | A BERT-based preference elicitation model for Conversational Recommender Systems |



SESSION 4 (Central Library) Chairs: Dr Maatallah M. & Dr Ziani A.

Google Meet: <https://meet.google.com/sgj-mrmc-wos>

| 10 h 30 - 12 h 30 | | |
|---|---|--|
| 10:30 - 10:50 | Djamel Amer Ouali, Abdeslem Achour and Mohamed Sahraoui. | A new Deep Learning Algorithm for Face Emotional Recognition |
| 10:50 - 11:10 | Mohamed El Amine Bellebna and Aissa Boudjella. | Automatic real-time road extraction image based on color segmentation polynomial regression model algorithm |
| 11:10 - 11:30 | Narima Zermi, Amine Khaldi and Rania Hamami. | Human Facial Expression Recognition by Uniform Local Binary Patterns Approach & Wavelet Transform |
| 11:30 - 11:50 | Abir Nouari, Ahlem Mellouk and Hadjer Bouzata. | Fuzzy controller for driving a car using genetic algorithm. |
| 11: 50- 12:10 | Rezki Nafissa and Rezgui Wail. | Extreme Learning Machine for the smart faults regression of turbofan engine |
| 12:10 - 12:30 | Zair Bouzidi, Abdelmalek Boudries and Mourad Amad. | Deep Learning, Big Data and High-Performance Computing to enhance Business and Marketing, while wearying of Fake News: Challenges, Opportunities, and Future Works |
| 12 h 30 - 14 h 00: Break (Lunch) | | |
| 14h 00 - 15 h 40 | | |
| 14:00 - 14:20 | Ramdane Taglout and Bilal Saoud. | Compared methods of object tracking based on deep learning |
| 14:20 - 14:40 | Belkhira Sid Ahmed Hichame, Rouissat Mehdi, Belkheir Mohamed and Bouziani Merahi. | A new tracking and monitoring smart system based on intelligent algorithms for schoolchildren and mental patients |
| 14:40 - 15:00 | Sabrina Bahroun, Toufik Sari, Farouk Benabbas and Nabiha Azizi. | Robust tracking system of vehicles on motion using Kalman filter at night mode |
| 15:00 - 15:20 | Ali-Abdelatif Betouil, Amina Makhoulouf and Ahmed Ahmim | New Inequality Index for Fair Multi-Agent Resource Allocation |
| 15:20 - 15:40 | Ahmed Ahmim. | Deep learning for intrusion detection. |

15:40- 16:00 – Summary and Close ICASA'2022