

**THE FIFTH INTERNATIONAL CONFERENCE
ON INTELLIGENT COMPUTING IN DATA SCIENCES**

ICDS2021

OCTOBER 20-21-22, 2021, FEZ-MOROCCO

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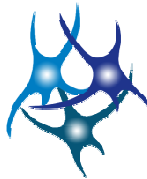
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- PROGRAM SESSIONS-

	WEDNESDAY 20 TH OCTOBER, 2021	THURSDAY 21 TH OCTOBER, 2021	FRIDAY 22 TH OCTOBER, 2021
09H00-09H30	OPENING CEREMONY AND WELCOME		WELCOME
09H30-10H30	KEYNOTE SPEECH 1: INTRINSICALLY MOTIVATED OPEN-ENDED LEARNING IN ROBOTICS: FOCUSING ON WHAT IS WORTH LEARNING IN AN EXTREMELY LARGE DATA FIELD PR. RICHARD DURO EPS, UNIVERSIDAD CORUNA, CORUÑA, SPAIN		CLOSURE CEREMONY
10H30-10H45	BREAK		
10H45-12H00	S1 MACHINE LEARNING 1	S2 SMART CITIES & SMART GRIDS	
		S7 FUZZY SYSTEMS	
		S8 INTELLIGENT & OPTIMAL CONTROL	
		S9 NATURAL LANGUAGE PROCESSING & INFORMATION RETRIEVAL	S10 IMAGE PROCESSING 1
14H45 - 15H45 (PARALLEL SESSIONS)	S3 DEEP LEARNING & APPLICATIONS	S4 SENTIMENT ANALYSIS & SOCIAL NETWORK	KEYNOTE SPEECH 2 : ANALYZING AND GENERATING HUMANS PR. MOHAMED DAUDI IMT LILLE NORD EUROPE, FRANCE CRISTAL (UMR CNRS)
15H45 - 16H00	BREAK		BREAK
16H00 - 18H00 (PARALLEL SESSIONS)	S5 DATA MINING	S6 MODELING & OPTIMIZATION	S11 NETWORKS & SECURITY
		S12 IMAGE PROCESSING 2	S13 MACHINE LEARNING 2



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- DETAILED PROGRAM -

OCTOBER 20, 2021

09H00-09H30

OPENING CEREMONY

ZOOM LINK : <https://us02web.zoom.us/j/88591434133?pwd=cmdYY0JTL0o0ZXhTYWlONEpvckZRZz09>

09H30-10H30

KEYNOTE SPEECH 1 :

ZOOM LINK : <https://us02web.zoom.us/j/88591434133?pwd=cmdYY0JTL0o0ZXhTYWlONEpvckZRZz09>

TITLE : INTRINSICALLY MOTIVATED OPEN-ENDED LEARNING IN ROBOTICS: FOCUSING ON WHAT IS WORTH LEARNING IN AN EXTREMELY LARGE DATA FIELD

PR. RICHARD DURO

EPS, UNIVERSIDAD CORUNA, CORUÑA, SPAIN

SESSION CHAIR : NFAOUI EL HABIB

10H30-10H45

BREAK

10H45 - 12H00(PARALLEL SESSIONS)

SESSION 1 : MACHINE LEARNING 1

ZOOM LINK : <https://us02web.zoom.us/j/84938204162?pwd=V2JMWF44ZmRoYnF0cW1lR0hVNmoxQT09>

SESSION CHAIRS : MAHRAZ / YOUSSEFI / AZOUGH

1. Itzhak Aviv, Artem Barger and Slava Pyatigorsky. Novel Machine Learning Approach for Automatic Employees' Soft Skills Assessment: Group Collaboration Analysis Case Study
2. Hajar Chouhayebi and Mohamed Adnane Mahraz. Facial expression recognition Using Machine Learning
3. Amine Habous, Habib El Nfaoui and Youness Oubenaalla. Predicting Employee Attrition using Supervised Learning Classification Models
4. Noureddine El Abid Amrani, Si Mohamed Snineh, Mohamed Youssefi, Oum El Kheir Abra and Omar Bouattane. Interoperability model between heterogeneous MAS platforms based on mobile agent and reinforcement learning



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10H45 - 12H00(PARALLEL SESSIONS)

SESSION 2 : SMART CITIES & SMART GRIDS

Zoom LINK : <https://us02web.zoom.us/j/89846821039?pwd=c0xpMHN5Vy90a24zQ3ZkUVZMMVZTUT09>

SESSION CHAIRS : YAHYAOUY/BOUHOUT/EL BEQQALI

1. El-Alaouy El-Arbi, Hamdv Ait Abdelali, Yahya Zennayi, François Bourzeix, Mohamed Amine and Gabriel Malka. A new transport-based approach for simulating impact of urban mobility on COVID-19 propagation
2. Abdelilah Mbarek, Mouna Jiber, Ali Yahyaouy and Abdelouahed Sabri. A new model for black spots identification using Weighted Severity Index
3. Sidi Mohamed Snineh, Noureddine El Abid Amrani, Mohamed Youssfi, Omar Bouattane and Abdelaziz Daaif. Detection of traffic anomaly in highways by using recurrent neural network
4. Ibtissame Mansoury, Dounia El Bourakadi, Ali Yahyaouy and Jaouad Boumhidi. Wind Power Forecasting Model Based on Extreme Learning Machine and Time series

14H45 - 15H45(PARALLEL SESSIONS)

SESSION 3 : DEEP LEARNING & APPLICATIONS

Zoom LINK : <https://us02web.zoom.us/j/84938204162?pwd=V2JMWFA4ZmRoYnF0cW1lR0hVNmoxQT09>

SESSION CHAIRS : RIFFI/J.BOUMHIDI/NAJAH

1. Jaydip Sen and Sidra Mehtab. Precise Stock Price Prediction for Robust and Optimized Portfolio Design Using an LSTM Model
2. Adama Samaké. Acceptance and Rejection Zones for a Classifier's Predictions in Deep Learning
3. Ghita Amrani, Amina Adadi and Mohammed Berrada. EEG signal analysis using deep learning: A systematic literature review
4. Mohsine Elkhayati and Youssfi Elkettani. Arabic handwritten text line segmentation using a multi-agent system and a directed CNN
5. Athanasios Ouzounis, George Taxopoulos, George Papakostas, Ilias Sarafis, Andreas Stamkos, George Solakis and George Sidiropoulos. Marble Quality Assessment with Deep Learning Regression Models
6. Ayoub Benali Amjoud and Mustapha Amrouch. Automatic Generation of Chest X-ray Reports Using a Transformer-based Deep Learning Model

14H45 - 15H45(PARALLEL SESSIONS)



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SESSION 4 : SENTIMENT ANALYSIS & SOCIAL NETWORK

Zoom LINK : <https://us02web.zoom.us/j/89846821039?pwd=c0xpMHN5Vy90a24zQ3ZkUVZMMVZTUT09>

SESSION CHAIRS : LOQMAN/BENLAHBIB/BOULAALAM

1. Aladdin Baarah, Ahmad Aloqaily, Hala Zyod and Nasser Mustafa. Sentiment-Based Neural Network Approach for Predicting the Severity of Bug Reports
2. Hanane Elfaik and El Habib Nfaoui. Social Arabic Emotion Analysis: A Comparative Study of Multiclass Classification Techniques
3. Anoual El Kah and Imad Zeroual. An empirical evaluation of ensemble bagging-based model for authorship attribution on Twitter
4. Abdelhaq Zouzou and Ikram El Azami. Text sentiment analysis with CNN & GRU model using GloVe
5. Brahim Laassem, Ali Idarrou and Loubna Boujlaleb. A Literature Survey on Label Propagation for Community Detection
6. Aichetou Cheikh Mouhamedou N'Diaye, El Arby Med Moustapha, El Benany Mohamed Mahmoud and Omar Elbeqqali. Apply sentiment analysis technology in social media as a tool to enhance the effectiveness of e-government: Application on Arabic and Mauritanian dialect 'HASSANIYA'

15H45 - 16H00

BREAK

16H00 - 18H00(PARALLEL SESSIONS)

SESSION 5: DATA MINING

Zoom LINK : <https://us02web.zoom.us/j/84938204162?pwd=V2JMWF44ZmRoYnFOcW1lR0hVNmoxQT09>

SESSION CHAIRS : (FAZAZI/OBENAALLA/ZINEDDINE)

1. Mosaab Daoud. Statistical Learning: A new outlier detection technique for composite data points using a multidimensional distance space
2. Hasna Chamlal, Tayeb Ouaderhman and Fatima Ezzahra Rebbah. A novel filter based feature selection approach for microarray dataset.
3. Rajath S, Amit Kumar, Mayank Agarwal, Sanjana Shekar and V R Badri Prasad. Data Mining Tool To Help The Scientific Community Develop Answers To Covid-19 Queries
4. Youssef Asnaoui, Yassine Akhiat and Ahmed Zinedine. Feature selection based on attributes clustering



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5. Vincent Roberge and Mohammed Tarbouchi. Parallel Algorithm on GPU for Wireless Sensor Data Collection using Multiple UAVs
6. Hasna Chamlal, Tayeb Ouaderhman and Fadwa Aaboub. Preordonances correlation filter for feature selection in the high dimensional classification problem
7. Imane Choukri, Guermah Hatim, Abdelmajid Daosabah and Mahmoud Nassar. Context aware Hidden Markov Model for Intention process mining

16H00 - 18H00(PARALLEL SESSIONS)

SESSION 6 : MODELING & OPTIMIZATION

Zoom LINK : <https://us02web.zoom.us/j/89846821039?pwd=c0xpMHN5Vy90a24zQ3ZkUVZMMVZTUT09>

SESSION CHAIRS : MOUTAOUAKIL/MESTARI/BENHLIMA

1. Vincent Roberge and Mohammed Tarbouchi. Hybrid Method Based on Metaheuristics and Interior Point for Optimal Power Flow
2. Bibi Aamirah Shafaa Emambocus, Muhammed Basheer Jasser and Angela Amphawan. A Discrete Adapted Dragonfly Algorithm For Solving The Traveling Salesman Problem
3. Hasna Chamlal, Tayeb Ouaderhman and Basma El Mourtji. Multicriteria approaches based on a new discrimination criterions for feature selection
4. Soukaina Bougdour, Rime Elhouti, Selma Sefriti and Ismail Boumhidi. Optimal predictive control model of wind turbine
5. Lahcen El Ouadefli, Omar El Moutea and El Akkad Abdeslam. Numerical computation of the Brinkman system in a heterogeneous porous medium by mini-element P1-Bubble/ P1
6. Safae Rbihou, Khalid Haddouch. Comparative study between a neural network, approach metaheuristic and exact method for solving Traveling salesman Problem



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09H30-10H30(PARALLEL SESSIONS)

SESSION 7 : FUZZY SYSTEMS

ZOOM LINK : <https://us02web.zoom.us/j/84938204162?pwd=V2JMWF4ZmRoYnF0cW1lR0hVNmoxQT09>

SESSION CHAIRS : BENYAKHLAF/BOUKILI/ZAH

1. Abderrahim Waga, Chaymaa Lamini, Said Benhlma and Ali Bekri. Fuzzy logic obstacle avoidance by a NAO robot in unknown environment
2. Souad Azzouzi, El-Mekkaoui Jaouad, Amal Hjouji and Ahmed El Khalfi. An effective modified possibilistic Fuzzy C-Means clustering algorithm for noisy data problems
3. Abderrahim El-Amrani, Rachid Naoual, Khaddouj Ben Meziane and Ismail Boumhidi. Model reduction of Takagi-Sugeno fuzzy two-dimensional systems : FM LSS model case
4. Mohammed Zerouali, Abdelghani El Ougli and Belkasssem Tidhaf. Single-phase photovoltaic grid-connected inverter based on fuzzy Variable Step Size P&O control

09H30-10H30(PARALLEL SESSIONS)

SESSION 8 : INTELLIGENT & OPTIMAL CONTROL

ZOOM LINK : <https://us02web.zoom.us/j/89846821039?pwd=c0xpMHN5Vy90a24zQ3ZkUVZMMVZTUT09>

SESSION CHAIRS : CHAIBI/EL BAKRI /I.BOUMHIDI

1. Khaddouj Ben Meziane, Rachid Naoual, Faiza Dib and Ismail Boumhidi. Intelligent Sliding Mode Control based on Optimized PID by DE Algorithm for wind turbine System
2. Ilham Hmaiddouch, Mohamed Essabre, Abdellatif El Assoudi and El Hassane El Yaagoubi. Unknown Inputs Observer Synthesis for Discrete-time Takagi-Sugeno Fuzzy Systems with Unmeasurable Premise Variables: Application to an Electric Vehicle
3. Rachid Chakib and Abderrahim El-Amrani. Filter design for two-dimensional discrete-time T-S fuzzy systems described by FM LSS model

10H30-10H45

BREAK

10H45-12H00(PARALLEL SESSIONS)

SESSION 9 : NATURAL LANGUAGE PROCESSING & INFORMATION

RETRIEVAL

ZOOM LINK : <https://us02web.zoom.us/j/84938204162?pwd=V2JMWF4ZmRoYnF0cW1lR0hVNmoxQT09>



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SESSION CHAIRS : KALLOUBI / H.NFAOUI / BETTIQUI

1. Edouard Ngor Sarr, Lamine Faty, Moussa Dethie Sarr, Mouhamadou Moustapha Sissokho, Fatima Toure and Ousmane Sall. From Intelligent Crawling to Inclusive Fact-Checking: An End-to-End System
2. Zineb Ellaky, Faouzia Benabbou, Sara Ouahabi and Nawal Sael. Word Embedding for Social Bot Detection Systems
3. Zakaria Kaddari, Jamal Berrich, Nouredine Rahmoun, Saida Belouali and Bouchentouf Toumi. INKAD COVID-19 IntelliSearch: a multilingual search engine for answering questions about COVID-19 in real-time from the scientific literature

10H45-12H00 (PARALLEL SESSIONS)

SESSION 10 : IMAGE PROCESSING 1

ZOOM LINK : <https://us02web.zoom.us/j/89846821039?pwd=c0xpMHN5Vy90a24zQ3ZkUVZMMVZTUT09>

SESSION CHAIRS : RAMADAN / TAIRI / FAHSI

1. Xuebo Zhang. A Multireceiver SAS Imaging Method
2. Fatima Zahra El Biach, Imad Iala, Hicham Laanaya and Khalid Minaoui. Efficient balanced focal loss function for manipulated images detection
3. Imane Zaimi, Nabila Zrira, Ibtissam Benmiloud, Imad Marzak, Kawtar Megdiche and Nabil Ngote. Towards an Improved 3D Reconstruction by the Use of Automatic Bone Segmentation from CT Scan Images
4. Btihal El Ghali, Omar El Midaoui, Mohamed Ayman El Ghali, Zineb Farahat, Imad Marzak, Nabil Ngote and Kawtar Megdiche. Modeling and Implementation of a Lunate Implant Based on 3D Reconstruction of CT Scan Images
5. Imad Eddine Araar, Abdessalem Benammar, Redouane Draï and Ahmed Benyahia. A GLCM-based approach for the clustering of weld joint images

14H45-15H45

KEYNOTE SPEECH 2 :

ZOOM LINK : <https://us02web.zoom.us/j/88591434133?pwd=cmdYY0JTL0o0ZXhTYWlONEpvckZRZz09>

TITLE : ANALYZING AND GENERATING HUMANS

PR. MOHAMED DAOUDI

IMT LILLE NORD EUROPE, FRANCE, CRISTAL (UMR CNRS)

SESSION CHAIR : EL BEQQALI

15H45-16H00

BREAK

16H00-18H00(PARALLEL SESSIONS)



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SESSION 11 : NETWORKS & SECURITY

Zoom LINK : <https://us02web.zoom.us/j/84938204162?pwd=V2JMWFh4ZmRoYnF0cW1lR0hVNmoxQT09>

SESSION CHAIRS : ABDERRAHMANI / BOUAYAD / EL HAOUSSI

1. Harshad Dhane and Manikandan V M. A New Framework for Secure Biometric Data Transmission using Block-wise Reversible Data Hiding Through Encryption
2. Sabrine Ennaji, Khalid Haddouch and Nabil El Akkad. A Powerful Ensemble Learning Approach for Improving Network Intrusion Detection System (NIDS)
3. Marouane Ben Boubker, Sara Ouahabi, Kamal Elguemmat and Ahmed Eddaoui. A comprehensive Study on Credit Card Fraud Prevention and Detection
4. Asmae El Fezzazi, Amina Adadi and Mohammed Berrada. Towards a Blockchain based Intelligent and Secure Voting
5. Mohamed Ouhssini, Karim Afdel, Mohamed Idhammad and Elhafed Agherrabi. Distributed intrusion detection system in the cloud environment based on Apache Kafka and Apache Spark

16H00-18H00(PARALLEL SESSIONS)

SESSION12 : IMAGE PROCESSING 2

Zoom LINK : <https://us02web.zoom.us/j/89846821039?pwd=c0xpMHN5Vy90a24zQ3ZkUVZMMVZTUT09>

SESSION CHAIRS : BETTIQUI / ZENKOUAR / AHERAHROU

1. Christopher Kottmyer, Kevin Zhao, Zona Kostic and Aleksandar Jevremovic. Roomsemble: Progressive web application for intuitive property search
2. Zineb Farahat, Nissrine Souissi, Mohammed Belmekki, Kawtar Megdiche, Safia Benamar, Yasmine Bennani, Soufiane Bencherif and Nabil Ngote. Diabetic Retinopathy: New Perspectives with Artificial Intelligence
3. Safia Benamar, Yasmine Bennani, Soufiane Bencherif, Zineb Farahat, Nissrine Souissi, Nabil Ngote, Kawtar Megdiche and Mohammed Belmekki. Diabetic Retinopathy Screening and Management in Morocco: Challenges and Possible Solutions.
4. Oumaima Guendoul, Hamd Ait Abdellali, Youness Tabii, Rachid Oulad Haj Thami and Omar Bourja. Vision-based fall detection and prevention for the elderly people: A review & ongoing research
5. Gayathri Lakshmi Chinthakrindi, UdayaSankar V and Siva Sankar Yellampalli. A Reference Based Approach to Detect Short Faults in PCB
6. MdIjaz Sadiq, S. M. Pramito Rahman, Shakiyen Kayes, Afnan Hossain Sumaita and Nafiz Ahmed Chisty. A review on the Imaging Approaches in Agriculture with Crop and Soil Sensing Methodologies



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16H00-18H00(PARALLEL SESSIONS)

SESSION 13 : MACHINE LEARNING 2

Zoom LINK : <https://us02web.zoom.us/j/88591434133?pwd=cmdYY0JTL0o0ZXhTYWlONEpvckZRZz09>

SESSION CHAIRS : MOUTAOUAKIL/RIFI

1. Omar Elfahim, El Mehdi Ben Laoula, Mohamed Youssfi, Oussama Barakat and Mohammed Mestari. Reinforcement Learning-based Unpredictable Emergency Events
 2. Mehdi Erraki, Oussama Barakat, Thibaut Desmettre, Tania Marx and Youssfi Mohamed. Machine Learning For Risk Assessment In Emergency Care: A Data-Oriented Survey
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OCTOBER 22, 2021

10H00-11H00

CLOSURE CEREMONY

Zoom Link : <https://us02web.zoom.us/j/88591434133?pwd=cmdYY0JTL0o0ZXhTYWlONePvckZRZz09>