



Advanced Intelligent Systems for
Sustainable Development



International
Conference

2020
AI2SD

Advanced Intelligent Systems for Sustainable
Development

International Conference on Advanced Intelligent
Systems for Sustainable Development applied to
Agriculture, Energy, Health, Environment, Industry,
Education, Economy and Security

Digital Transformation is lever of the Industrial Revolution 4.0

EDUCATION
AGRICULTURE
ENERGY
HEALTH

ENVIRONMENT
INDUSTRY
ECONOMY

3rd
Edition


Springer

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Ph.D Organisation Committee

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Sarah KHROUCH,
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M. Redouane TAGHOUTI,
Mohammed Yassine FENNI,
Abderrahim EL YESSEFI,
M. Rida ECH-CHARRAT,
Soumaya EL MAMOUNE
Abderrahim
Youssef

After the success of the second edition AI2SD'19, this third International Conference on Advanced Intelligent Systems for Sustainable Development

It is also expected a great opportunity amongst students, scientists, researchers, and industrial sectors to exchange their idea with others in the knowledge of Sustainable Development and establish an excellent network with a new colleague.

At this special event, 48 international distinguished keynote speakers and a large number of invited speakers will deliver their outstanding research works in various fields of Advanced Intelligent Systems joining together with 217 oral presentations (We received 416 submissions) and about 53 poster presentations that would be a great opportunity to all participants to share their recent research information and knowledge among each other. In addition to that, a free International Summer School for Big Data and Data Mining Models will take place in our conference, 8 courses animated by 8 international professors for the benefit of 100 Ph.D. students.

All articles in this issue have been subjected to a peer-review process based on their originality and quality. The aim of the conference is to be a platform for researchers to present their latest research works and to exchange their ideas.

The topics covered in this conference have covered

- 
- Advanced Intelligent Systems for Education and Intelligent Learning System
 - Advanced Intelligent Systems for Sustainable Development Applied to Industry
 - Advanced Intelligent Systems for Sustainable Development Applied to Economy
 - Advanced Intelligent Systems for Sustainable Development Applied to Agriculture
 - Advanced Intelligent Systems for Sustainable Development Applied to Energy
 - Advanced Intelligent Systems for Sustainable Development Applied to Health
 - Advanced Intelligent Systems for Sustainable Development Applied to Environment

AI2SD'2020

HONORARY PRESIDENTS



Mr. AMZAZI Saaid
Minister of National Education,
Vocational Training Higher Education
and Scientific Research
Kingdom of Morocco



Mr. REBBAH Azziz
Minister of Energy, Mines
and Sustainable Development
Kingdom of Morocco

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HONORARY GUESTS



Pr. JANUSZ KACPRZYK
SRI
Poland-Warsaw



Mr. OVAIS Sarmad
Deputy Executive Secretary
of the United Nations Framework
Convention on Climate Change



Pr. Rachid El Yazami
Founder of Contour Energy
Systems - CFX battery



Pr. STITOU Mustapha
Interim President of Abdelmalek
Essaadi university
Tetouan - Morocco



Pr. Abderrahman El Maâroufi
directeur de l'Institut
Pasteur du Maroc



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Director of IRESEN
Rabat-Morocco



Pr. HBID HASSAN
Dean of FSSM
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President of International university
Rabat-Morocco



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Rabat-Morocco



Mr. MAGHNI Ahmed
Director of ENCG
Tangier - Morocco



Pr. ADDOU Mohamed
Dean of FSTT
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Tangier, Morocco

KEYNOTE SPRAKERS



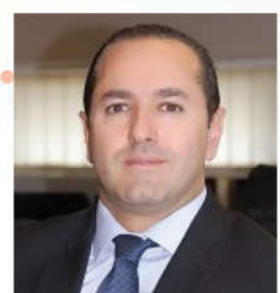
Pr. JANUSZ KACPRZYK
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Poland-Warsaw



Pr. Mustapha BENNOUNA
EMU,
Fes-Morocco



Pr. Rachid El Yazami
Founder of Contour Energy
Systems - CFX battery



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and Engineering
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Pr. Tarik CHAFIK
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Professor & Founding Director
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Pr. Hassan Ghazal
President of the Moroccan
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(Morocco)



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Tetouan, Morocco



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Pr. Manal Fawzi
Egypte



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Mr. Abderrahman Elkafil
Representant pour la region
Mena Gnu health initiative



Pr. Iyad Tumar
Palestine



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Technology University of Houston
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Larache, Morocco



Pr. Tarkan GÜRBÜZ
Middle East Technical
University
Ankara, Turkey

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Pr. Abdel Labbi
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& Program Director
Data & AI Platforms



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Mr. Teodoro Laino
Researcher, Manager bei
IBM Research Europe



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Belgium



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Tangier, Morocco

COURSE LEADERS



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Settat, Morocco



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**Pr. Ec-Cherrat
Mohammed Reda**
ENSA Tetouan, Morocco



Pr. Taha Ait Tchakoucht
Euromed University
Fes, Morocco



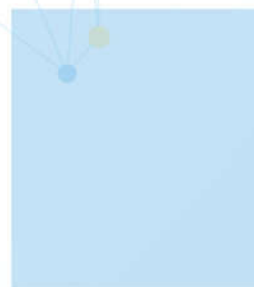
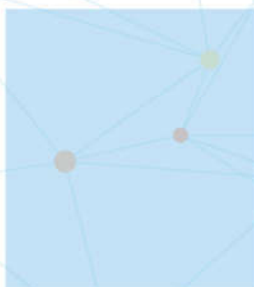
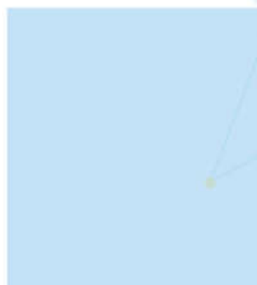
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Kénitra Maroc

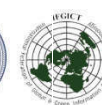


Pr. Khadija SABRI
Blockchain and Data
Security expert
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Mr. Jalal HAMMARI
Founder and Agile Coach
in the Digitalization
Germany



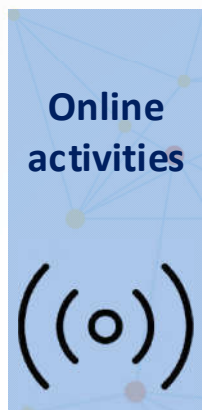


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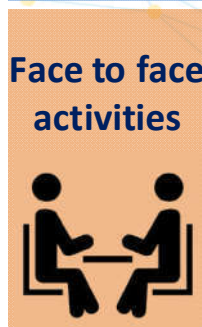
Tangier, Morocco

PROGRAM SUMMARY

OPENING HOURS



Online activities



Face to face activities

Monday, Dec 21 th 2020	10 :00 – 17 :00
Tuesday, Dec 22 th 2020	10 :00 – 19 :00
Wednesday, Dec 23 th 2020	10 :00 – 19 :00
Thursday, Dec 24 th 2020	10 :00 – 19 :00
Friday, Dec 25 th 2020	10 :00 – 19 :00
Saturday, Dec 26 th 2020	09 :00 – 16 :00
Sunday, Dec 27 th 2020	09 :00 – 16 :00
Saturday, Jan 02 th 2021	09 :00 – 16 :00
Sunday, Jan 03 th 2021	09 :00 – 16 :00

SESSION TOPICS

A	Advanced Intelligent Systems For Sustainable Development Applied To Education
B	Advanced Intelligent Systems For Sustainable Development Applied To Agriculture
C	Advanced Intelligent Systems For Sustainable Development Applied To Health
D	Advanced Intelligent Systems For Sustainable Development Applied To Energy
E	Advanced Intelligent Systems For Sustainable Development Applied To Industry
F	Advanced Intelligent Systems For Sustainable Development Applied To Environment
G	Advanced Intelligent Systems For Sustainable Development Applied To IT & Engineering
H	Advanced Intelligent Systems For Sustainable Development Applied To Intelligent Systems and Computing

PROGRAM SUMMARY

	10 : 00 – 12 : 00		14 : 00 – 17 : 00		Online activities	
Monday, DEC 21 th 2020	OPENING CEREMONY		Webinar Special Panel 1 Health			
	10 : 00 – 13 : 00	13 : 00 – 16 : 00	16 : 00 – 19 : 00			
Tuesday, DEC 22 th 2020	Industry 4.0 challenge and digital transformation for new Africa generation - IBM Affrican	Webinar Special Panel 2 Industry 4.0	Intenational Summer School Tutorial 1 : Neural Networks			
Wednesday, Dec 23 th 2020	Morocco-China Technology Transfer Workshop on Environment 摩洛哥-中国环境技术转移研讨会	Webinar Special Panel 3 Environment & Energy	Intenational Summer School Tutorial 2 : Topological Data Analysis			
Thursday, Dec 24 th 2020	Morocco-China Technology Transfer Workshop on Health 摩洛哥-中国健康技术转移研讨会	Webinar Special Panel 4 Education & Economy	Intenational Summer School Tutorial 3 : Deep Learning			
Friday, Dec 25 th 2020	Morocco-China Technology Transfer Workshop on Agriculture 摩洛哥-中国农业技术转移研讨会	Webinar Special Panel 5 Agriculture	Intenational Summer School Tutorial 4 : Machine Learning Tools		((o))	
	08 : 00 – 10 : 30	10 : 30 – 12 : 00	12:00 12:30	12 : 30 – 14 : 30	14:30 – 16:00	Face to face activities
Saturday, Dec 26 th 2020	Parallel Session PS1, PS2, PS3	Plenary Conference 1	Coffe Break	Parallel Session (PS4, PS5, PS6) Poster Session (PTS1, PTS2)	Lunch Certification Excursion	
Sunday, Dec 27 th 2020	Parallel Session PS7, PS8, PS9	Plenary Conference 2		Parallel Session (PS10, PS11, PS12) Poster Session (PTS3, PTS4)		
Saturday, Jan 02 th 2020	Parallel Session PS13, PS14, PS15	Plenary Conference 3		Parallel Session (PS16, PS17, PS18) Poster Session (PTS5, PTS6)		
Sunday, Jan 03 th 2020	Parallel Session PS19, PS20, PS21	Plenary Conference 4		Parallel Session (PS22, PS23, PS24) Poster Session (PTS7, PTS8)		



FIRST DAY
21-12-2020

OPENING CEREMONY

10:00
12:00

at Faculty of Medicine & Pharmacy of Tangier

zoom
id: 1554-234-099



Mr. AMZAZI Saaid
Minister of National Education,
Vocational Training Higher Education
and Scientific Research
Kingdom of Morocco



Mr. REBBAH Azziz
Minister of Energy, Mines
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Tetouan - Morocco



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President of International university
of Rabat
Rabat-Morocco



Pr. HBID HASSAN
President of Cadi Ayyad
University
Marrakech-Morocco



Pr. Yan Xiaohong
President of Jiangsu
University
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Dr. IKKEN Badr
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Pr. MAGHNI Ahmed
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Pr. Abderrahman El Maâroufi,
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Pastor of Morocco



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Rabat-Morocco



Pr. EZZIYANI Mostafa
AI2SD General Chair
Tangier-Morocco



Pr. Xing Jiguo
Director of China - Arab States
Technology & Culture Transfer
Center Platform
China



Mr. Hassan Bahej
Président Directeur Général
at IBM Maroc

12:00 - 13:00

BREAK

FIRST DAY
21-12-2020

Webinar Special Panel Series

1

14:00 - 17:00

Topic: Health

Global Health Credibility Challenge: Which Strategy of Large-Scale Digital Health Services for Everyone, Anytime and Everywhere?



Moderator

Pr. Mostafa EZZIYANI
University Abdelmalek Essaadi
Tangier, Morocco

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id: 1554-234-099



Mr. Frank Lievens
President, International Society
for Telemedicine & eHealth
Belgium



Dr. Najeeb AL SHORBAJI
President of the Menahia
Amman, Jordan



Pr. Khadija Hormi
University of Richland,
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Dr. francesco sicurello
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Mr. Abderrahman Elkafil
Representant pour la region
Mena Gnu health initiative
Belgium



Dr. Samir kaddar
President de l'association des
compétences médicales
marocaines du monde
Belgium

SECEND DAY
22-12-2020

Webinar Special Panel Series

2

10:00 - 13:00

Topic: Agriculture

Global Leader of IoT Solutions for in Precision Agriculture and Smart Farming



Moderator

Pr. Kerkeb Larbi
Dean of Polydisciplinary
Faculty of Larache
Morocco

zoom
id: 1554-234-099



Pr. Lloret Mauri JAIME
UPV
Valencia-Spain



Mr. Pascal LORENZ
HAU Mulhouse
France



Pr. Mohamed SEID
Durham University
United Kingdom



Pr. Manal Fawzi
Egypte



Mr. Oussama Rais
Soudane



Pr. Mohammed Ezziyyani
iversity Abdelmalek Essaa
Larache, Morocco



Pr. Belkheir Hammouti
President of the Moroccan Center
for Development and Science
Oujda, Morocco



Pr. Jalal HAMMARI
DBC
Germany

THIRD DAY
23-12-2020

Webinar Special Panel Series

3

10:00 - 13:00

Topic: Environment & Energy

A new perspective of global renewable energy for sustainable environment



Moderator

Pr. Driss Ouazar
Complex Systems Expert
Rabat, Morocco

zoom
id: 1554-234-099



Pr. Rachid El Yazami
Founder of Contour Energy
Systems - CFX battery



Pr. Kawtar HAFIDI
Renewable Energy and
Energy Storage at Argonne
National Lab



Pr. IKKEN Badr
Director of IRESEN
Rabat-Morocco



Pr. Tarik CHAFIK
AEU, FST
Tangier-Morocco



Pr. SAID RACHAFI
AEU, FS
Tetouan-Morocco



Pr. ATKINS Anthony
Professor School of Digital,
Technologies Staffordshire
University
United Kingdom



Abdoukader Ibrahim IDRIS
Dean of the faculty of
engineering
Djibouti



Pr. Ismael SAADOUNE
CAU, FS
Marrakech- Morocco

FOURTH DAY
22-12-2020

Webinar Special Panel Series

4

10:00 - 13:00

Topic: Industry 4.0

Future Global Economy with the new technology generation of fourth industrial revolution to Industry 4.0



Moderator

Pr. Badir Hassan
Prof. Computer Engineering
ENSA of Tangier
Morocco

zoom
id: 1554-234-099



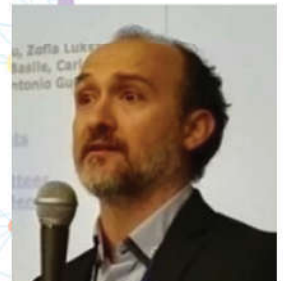
Pr. JANUSZ KACPRZYK
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Pr. Valentina Emilia Balas
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FRANCE



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Pr. Iyad Tumar
Birzeit university
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Pr. Essaadi Mohammed
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Tetouan, Morocco



Pr. Tarkan GÜRBÜZ
Middle East Technical
University
Ankara, Turkey



Pr. Khalid Zine Dine
Mohammed V University
Rabat, Morocco

SECEND DAY
22-12-2020

IBM Webinar Special Panel

13:00 - 16:00

AI for Industry 4.0



Moderator

Pr. Mostafa EZZIYANI
University Abdelmalek Essaadi
Tangier, Morocco



Pr. Abdel Labbi
IBM Distinguished Engineer
& Program Director
Data & AI Platforms
IBM Research
Future of AI in Industry



Mr. Teodoro Laino
Researcher, Manager bei
IBM Research Europe
IBM Research
**Future of Material
Discovery**



Mr. Plamen Kiradjiev
Global CTO Industrie 4.0,
IBM Distinguished Engineer
IBM Global Business Services
**Future of Manufacturing:
Cloudifying your Plants**



Pr. Cristiano Malossi
Manager, AI Automation
at IBM
IBM Research
AI for Civil Engineering



AI2SD'2020

Tangier, Morocco

SUMMER SCHOOL PROGRAM

Tutorial 1  	Neural Networks for NLP (Word2vec, RNN, LSTM, Transformers) Pr. DABOUNOU JAOUAD	Optimization Methods for Deep Learning Pr. ESSOUFI ELHASSAN
Tutorial 2  	Principals of Machine reasoning Pr. BALOUKI YOUSSEF	Topological Data Analysis Pr. DABOUNOU JAOUAD
Tutorial 3  	Géodata et intelligence artificielle Pr. Mridekh AbdelAziz	Lessons learned and Success Factors to successfully transform from an Industry 3.0 Business to an Industry 4.0 business Pr. JALAL HAMMARI
Tutorial 4  	Machine learning tools for Neural Network Case study with Python and Tensenflow Pr. Taha Ait Tchakoucht	Big Data Analytics TOOLS for Logistics and Transportation Optimization Pr. Mohamed Reda Ec-Cherrat



AI2SD'2020

Tangier, Morocco

PROGRAM SUMMERY

Program of Parallel Sessions



AI2SD'2020

Tangier, Morocco

PROGRAM SUMMERY

A

TOPIC 1 :Advanced Intelligent Systems for Education and Intelligent Learning System

DATE :26-12-2020

PARALLEL SESSION 1:

SESSION CHAIRS:PR. EL HASSAN ABDELWAHID&MOHAMMED ECH-CHERRAT **09h00 to 11h30 - Room1**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Karima Attariuas, MounaAtik El Ftouh and Mohamed Fourka	Design of Smart Service Platform forCollaborative Last-Mile Delivery in Urban Area
09H15 – 09H30	M. Ezzahmouly, A. ELMoutaouakkil, M. Ed- dhahraouy, S. Hakim, H. EL Byad, E. Gourri and Z. Hatim	Development of an automatic process for calculation of bone defected volume from tomographic images
09H30 – 09H45	Imane El GHISSASSI,Hassan AZDIMOUSA	ENTREPRENEUR PROFILE: A NEW CONCEPTUAL MODEL
09H45 – 10H00	Sonia Souabi, Asmaâ Retbi, Mohammed Khalidi Idrissi, SamirBennani	Evaluating The Performance of Online Courses During Covid19 in a Moroccan Context
10H00 – 10H15	Safae Berrichi and Azzeddine Mazroui	The Impact of Word Segmentation Techniques on Neural and Statistical Machine Translation: English-Arabic case
10H15 – 10H30	Meryem SOUAIDI, Mohamed El Ansari	Automated Detection of Wireless Capsule Endoscopy Polyp Abnormalities with Deep Transfer Learning and Support Vector Machines
10H30 – 10H45	Sonia Souabi, Asmaâ Retbi, Mohammed Khalidi Idrissi, Samir Bennani	A Hybrid Recommendation System based on Correlation and co-occurrence within Social Learning Network
10H45 – 11H00	LouzarOumaima, Baida Ouafae, Ramdi Mariam, Lyhyaoui Abdelouahid	An Overview of Detecting Fake Accounts on Twitter Networks
11H00 – 11H15	Saadia El Hajjami, Salah Souabi and Mohammed El Alami	Assessment of pollution by phosphate and nitrogen elements from Sebou and Oum Er Rbia, Morocco
11H15 – 11H30	Samia Rami, Samir Bennani, Mohammed Khalidi Idrissi	Towards a New Framework of automatic detection of learning style based on FSLM



AI2SD'2020

Tangier, Morocco

PROGRAM SUMMERY

PARALLEL SESSION 2:

SESSION CHAIRS :Pr. HOUDA EL AYADI&MOHAMMED EZZIYYANI **09h00 to 11h30 - Room2**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Rajae Zriaa, and Said Amali	Recommendation of learning objects through dynamic learning style identification and k-means clustering algorithm
09H15 – 09H30	Jihane Jebrane and Saiida Lazaar	Comparison Study of Lightweight Hash Functions for an Authentication Solution on IoT
09H30 – 09H45	Ahmed OUHNINI, Mohammed OUANAN and Brahim AKSASSE	Phonemes Recognition using Formant Analysis in the case of Consonant Vowel Transition Case "Amazigh Language"
09H45 – 10H00	NaoualNassiri , Abdelhak Lakhouaja, and Violetta Cavalli-Sforza	Combining Classical and Non-Classical Features to Improve Readability Measures for Arabic First Language Texts
10H00 – 10H15	Ouafae EL AISSAOUI,Lahcen OUGHDIR	A learning style-based approach for Matching the learner profile ontology and the learning content ontology
10H15 – 10H30	BensalahNouhaila, Ayad Habib, Adib Abdellah, and Ibn el farouk Abdelhamid	Combining Word and Character Embeddings forArabic Chatbots
10H30 – 10H45	HioualOuided, HioualOuassila, Hemam Sofiane Mounine, and MaifiLyes	A new method for predicting failures in Cloud Computing
10H45 – 11H00	Yassine BENLACHIMI, Abdelaziz EL YAZIDI, Mohamed Saad AZIZI and Moulay lahcen HASNAOUI	Performance evaluation of hadoop tools using Word Count algorithm
11H00 – 11H15	Mohamed Amroune, Ahlem Bouguettaya	An efficient Deep Learning approach for Sentiments classification based on Bi-LSTM network
11H15 – 11H30	Driss ELHACHMI, Lahcen BAHI, Latifa OUADIF, Hanane	Historic monuments of Salé Medina, Morocco Identification and diagnosis



AI2SD'2020

Tangier, Morocco

PROGRAM SUMMERY

PARALLEL SESSION 3:

SESSION CHAIRS :PR. EL AFIA ABDELATIF&ABDESSADEK AAROUD **09h00 to 11h30 - Room3**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Kaoutar JBIRA, Jamila EL ALAMI, and Mustapha HLYAL	Lean and green: What impact on environmental performance: A litterature Review
09H15 – 09H30	El Alami Mohamed, El Khabbazi Sara	An affective and Multi-Agent system for autistic children
09H30 – 09H45	Fatima Zohra Lhafra, Otman Abdoun	Hybrid approach to recommending adaptive remediation activities based on assessment results in an e-learning system using machine learning
09H45 – 10H00	Soumaya Ounacer , Houda Jihal, Kenza Bayoude, Abderrahmane Daif and Mohamed Azzouazi	Handling imbalanced datasets in the case of credit card fraud
10H00 – 10H15	Jihane ABDESSADAK , Abdellatif BEN ABDELLAH , Kamal REKLAOUI	University FabLab or Maker space as a source of innovation
10H15 – 10H30	YoussefMnaoui ,Aouatif Najoua, and Hassan Ouajji	Automatic English Proficiency Assessment for Air Traffic Controllers in Emergencies
10H30 – 10H45	Maryam ED-DAIBOUNI, El Habib Benlahmar and Rabie BARHOUN	Researcher Profile Model for Academic Environment
10H45 – 11H00	EL ALAMI Mohamed and AHEDAR Sihame	Adaptive Intelligent Multi-Arrangement Architecture For Autistic Children Learning
11H00 – 11H15	Farah Saidi, Zakaria Kaddour and Abed Malti	Time-Step Dependent Spring's Stiffness for Numerical Stability of Mass-Spring Models
11H15 – 11H30	Fatima El Barakaz, Omar Boutkhoul,Abdelmajid El Moutaouakkil	Feature Selection method based on classification performance score and P-Value



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PARALLEL SESSION 4:

SESSION CHAIRS :PR. JBILOU MOHAMMED &SANAË KHALI ISSA **12h00 to 14h30 - Room4**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN:** 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	Younes JAMOULI and Mustapha HLYAL, Jamila EL ALAMI	Positive outcomes of co-creation in institutional student partnership
12H15 – 12H30	Soufiane Ardchir, Amina Rachik, Youssef Ouassit, Reda Moulouki and Mohamed Azzouazi	An Efficient Feature Selection Approach for MOOCs Dropout Prediction
12H30 – 12H45	Ouafae EL AISSAOUI, Lahcen OUGHDIR	A literature Review on Student Modeling purposes
12H45 – 13H00	Yassir Zardoua, Abdelali Astito, Mohammed Boulaala, and Yassir Dokkali	A Short Overview of Horizon Detection Methods Applied to Maritime Video Stabilization
13H00 – 13H15	Ait M'hamed Jamal, Foffie Steymelin, and Ezzine Abdelhak	A novel framework for Traffic Sign Detection and Recognition (TSDR)
13H15 – 13H30	Lina Mouden, Mustapha Ouardouz, Noureddine Belmokhtar, Mohammed Ammari, Laïla Ben Allal	Three-Dimensional Printing of a New Construction Material: A Laboratory- Scale Study
13H30 – 13H45	Naoual Nasser, El khouzai El mostapha, and Abdallah Zahidi	Investigation on the difficulties impacting the quality of the Secondary/University transition in Geometrical Optic among Moroccan students
13H45 – 14H00	Toufik Datsi, Khalid Aznag, Ahmed El Oirrak	A Novel Approach for Handwritten Digit Recognition Using Multilayer Perceptron Neural Network
14H00 – 14H15	Meryem Amane, Karima Aissaoui, Mohammed Berrada	Big Data in E-learning: Literature Review and challenges
14H15 – 14H30	Noureddine Seddari, Sara Kerraoui, and Marwa Drissi	"A Novel Approach to Model Learners in a Collaborative Human Learning Environment"



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B TOPIC 2: Advanced Intelligent Systems for Sustainable Development applied Agriculture

DATE : 26-12-2020

PARALLEL SESSION 5:

SESSION CHAIRS : PR. EL ADNANI MOHAMED & KHALIL EL HAMI **12h00 to 14h00 - Room5**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	Inass ZAYANI, Karima BOUHAFI, Mohammed AMMARI, Laïla BEN ALLAL	Soil Fertility Management on Smart Production System Resilient to Climate Change
12H15 – 12H30	Pedro Vicente Mauri, Salima Yousfi, Lorena Parra, Jaime Lloret and José Fernando Marín	The Usefulness of Drone Imagery and Remote Sensing Methods for Monitoring Turfgrass Irrigation
12H30 – 12H45	Hassania FARHOUNE, Abdellah BENBIA, Meriem Mdarhri ALAOU, Souad CHERKAOU	THE SUBSTRATE EFFECT ON VEGETATIVE GROWTH AND DEVELOPMENT OF THE ARGAN TREE “ARGANIA SPINOSA L SKEEL.”
12H45 – 13H00	Fatima-zahra El-Alami, Said Ouattik El Alaoui	Combining and Merging Deep Neural Networks for Arabic Text Categorization
13H00 – 13H15	Naima Azzouzi, Nisrine Laghmire, Said Zantar, Mohammed Reda Britel, Amal Maurady	Changes in Textural and quality of blackberry during postharvest cold storage
13H15 – 13H30	A. BAGGAR, A. SAFI	Agro-morphological traits assessment and polyphenols compounds analysis in some advanced lentil's lines (Lens culinaris M.)



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C TOPIC 3: Advanced Intelligent Systems for Sustainable Development applied Energy

DATE : 26-12-2020

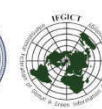
PARALLEL SESSION 6:

SESSION CHAIRS : PR. MOHAMED SEAID & MOHAMMED EL MRABET **12h00 to 14h15 - Room 6**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	LAGRAINI Hajar, CHHIBA Mostafa, TABYAOUI Abdelmoumen, and MOUHSEN Ahmed	LEVEL-CROSSED: A SOLUTION FOR ENERGY SAVING IN WIRELESS SENSOR NETWORKS
12H15 – 12H30	AimanChaibi, Slimane Smouh, Brahim Oubaha, Rachid Saadani, Mustapha Mahdaoui and Mohammed Ahachad	The Synergy Between Maintenance and Energy Efficiency: Case Study of an Industrial Plant in Tangier
12H30 – 12H45	HusamAwad, Ghadaabu Al goboz, Naem Harb, ShareifShurab	Case study design of a stand-alone photovoltaic power system in gaza-strip and generalizing a program simulation
12H45 – 13H00	Imane Amarir, Hamid Mounir, and Abdellatif El Marjani	Durability Analysis of Welded Rectangular Profiles under Damped Loads for Automotive Utilization
13H00 – 13H15	Latifa EL BOUJDAINI Ahmed MEZRHAB Mohammed Amine MOUSSAOUI	Prediction of global and direct solar irradiation based on a new input variable using an artificial neural network approach
13H15 – 13H30	Mohammed Hicham NEJMA, Hamid MOUNIR and Abdellatif EL MARJANI	A Review of Recent Advancements regarding the Geometry of Flow Field Channels in the Bipolar Plates of Polymer Electrolyte Membrane Fuel Cells
13H30 – 13H45	Hajar.Bnouachir, MeriyemChergui, Mourad Zegrari, Aziza Chakir, Laurent Deshayes, Hicham Medromi	Smart fleet management system based on multi-agent systems: Mining context
13H45 – 14H00	Ikram Labtaini and Khalil El-Hami	Pulse cleaning optimization and numerical analysis of the pulsed air jet nozzle for improving a cleaning performance
14H00 – 14H15	Ilias Glilah, Ibrahim Hadj Baraka, Benaissa Amami	The impact of using artificial intelligence to control a micro-inverter dedicated to photovoltaic energy on the improvement of conversion efficiency



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PARALLEL SESSION 7:

SESSION CHAIRS : PR. LLORET MAURIJAIME & MUSTAPHA METOU **09h00 to 11h30 - Room1**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN:** 782 963 088# **DATE :** 27-12-2020

Live Presentation : [Lien de live.com](#)

09H00 – 09H15	Kamal Jemmad, Abdelhamid Hmidat, and Abdallah Saad	Energy performance assessment by “IEB” indicator of five main departments in a Moroccan hospital
09H15 – 09H30	Charifa Haouraji, Abdelmajid Farchi, Ilham Mounir, Badia Mounir,	Using machine learning tools for forecasting residential Liquefied Petroleum Gas demand in Morocco.
09H30 – 09H45	Ahmed Khoumsi	Efficient collaborative energy trading between smart grids using blockchain and smart contracts
09H45 – 10H00	A. El madani, O. Daoudi, M. Fahoume, M. Lharch, A. Qachau, K.Nouneh	Experimental and ab-initio investigation of the physical properties of PbS nanoparticles prepared by chemical bath deposition (CBD)
10H00 – 10H15	Younes FARKACH, Souane DRFOUFI, and Mustapha MAHDAOUI	Numerical investigation of laminar natural convection in annulus space based on lattice Boltzmann method
10H15 – 10H30	M.A. Moussaoui, S. Derfoufi, A. Mezrhab	Radiation effect in a square cavity containing a circular cylinder with discrete bottom heating
10H30 – 10H45	Imane Amarir, Hamid Mounir, and Abdellatif El Marjani	Fatigue Damage Assessment of Welded Rectangular Profiles by Numerical Simulation
10H45 – 11H00	Abdelhafid Abouharim, Bouazza Tbib, Khalil El-Hami	Photostorage of energy in novel nano-system of Glycerol/Tetrapolyphosphate of Erbium (Er ₂ P ₄ O ₁₃)/ Multi Walled Carbon Nanotubes (MWCNT)
11H00 – 11H15	Mohamed Nfaoui, Mohamed Mejdal, Khalil El-hami and Sanaa Hayani-Mounir	Study and modeling of the thermal behavior of a Photovoltaic cell under arid and semi-arid sites conditions
11H15 – 11H30	Doudou Youssra, Cherkaoui Abdeljabbar	Contribution to a smart grid by optimizing battery life



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D TOPIC 4 :Advanced Intelligent Systems for Sustainable Development applied Health

DATE :27-12-2020

PARALLEL SESSION 8:

SESSION CHAIRS :PR. ADIL HAFIDI ALAOUÏ&AMMARI MOHAMMED 09h00 to 11h15 - Room2

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : Lien de live.com

09H00 – 09H15	Mohammed Kalloub, Abdelrahman Alshaikh Ahmad, Iyad Abu Sada, Mohammed Hwehi, Nafez Alqerim	Eversion carotid endarterectomy, A preferable Technique for carotid re-vascularization. Retrospective analysis.
09H15 – 09H30	Souad Bechrouri, Hamid Mraoui, Abdelilah Monir, and Adil Maleb	Lymphocyte Count Prediction Using Machine Learning and UF-1000i Sysmex Preliminary results
09H30 – 09H45	Lahcen El Bouny, Mohammed Khalil, and Abdellah Adib	ECG Heartbeats Classification based on 1-D Convolutional Neural Networks?
09H45 – 10H00	Zuherman Rustam, Glori Stephani Saragih	Implementation of Random Forests for the Classification of Chronic and Acute Sinusitis
10H00 – 10H15	Samira Lafraxo and Mohamed El Ansari	Regularized Convolutional Neural Network for Pneumonia Detection through Chest X-Rays
10H15 – 10H30	Jane Eva Aurelia, Zuherman Rustam, Sri Hartini, and Nurlia Angie Darmawan	Comparison between Convolutional Neural Network and Random Forest as classifier for Cerebral Infarction
10H30 – 10H45	Ilsya Wirasati, Zuherman Rustam, Jane Eva Aurellia	One Dimensional Convolutional Neural Network for Classifying Sinusitis
10H45 – 11H00	Ilsya Wirasati, Zuherman Rustam, Jane Eva Aurellia	Cerebral Infarction Classification Using Genetic Algorithm Neural Network and Stochastic Neural Network
11H00 – 11H15	Imane ASSINI, Abdelmajid BADRI, Aicha SAHEL, and Abdennaceur BAGHDAD	Comparative Analysis of Multiple Watermarking Medical Image using Wavelet Transform



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PARALLEL SESSION 9:

SESSION CHAIRS : PR. TARIK CHAFIK & MOHAMMED EL MRABET **09h00 to 11h15 - Room3**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN:** 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Zuherman Rustam, Glori Stephani Saragih	An Improved of Accuracy in Soft Tissue Tumor Classification with Random Forests
09H15 – 09H30	Sandra Viciano-Tudela, Javier Rocher, Daniel A. Basterrechea, Lorena Parra, Jaime Lloret	Low-Cost Sensor to Detect the Blood in Urine
09H30 – 09H45	Zuherman Rustam, Sri Hartini, Glori S. Saragih, Nurlia A. Darmawan, and Jane E. Aurelia	The Hybrid of Kernel K-Means and Fuzzy Kernel C-Means Clustering Algorithm in Diagnosing Thalassemia
09H45 – 10H00	Zuherman Rustam, Nurlia Angie Darmawan, Sri Hartini, JaneEva Aurelia	Support Vector Machines and Naïve Bayes Classifier for Classifying A Prostate Cancer
10H00 – 10H15	Chaimae Moumouh, Mohamed Yassin Chkouri, José Luis Fernández Alemán	Bibliometric analysis of scientific literature in Security and Electronic
10H15 – 10H30	Amal Maurady, Malika M'guil, Badr-Edine Sadoq, Gilda Eslami, and Mohammed Reda Britel	Molecular docking study of selected molecules as novel target for ATPase of Mycobacterium tuberculosis inhibitors
10H30 – 10H45	Mouad RIYAD, Mohammed KHALIL, and Abdellah ADIB	MR-EEGNet: An Efficient ConvNets for motor imagery classification
10H45 – 11H00	Mohamed Amine Rguibi, Abdellah Madani, and Najem Moussa	Predicting the Growth of COVID-19 in Morocco by Adopting an ARIMA Model
11H00 – 11H15	Assia BOUHOUDAN, Fatima CHIDI, Mustapha KHADDOR	Induction of Aging and apoptosis by Sucrose in Penicillium aurantiogriseum



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PARALLEL SESSION 10:

SESSION CHAIRS : PR. HOUDA EL AYADI & ABDESSAMED EL BERNOUSSI **12h00 to 14h30 - Room4**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN:** 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	Boutaina Ettetuani, Ahmed Moussa, and Rajaa CHAHBOUNE	Functional Cluster Analysis of Glomerular Disease
12H15 – 12H30	Sahbi Zahaf, Faiez Gargouri	Enterprise Information System Approach: Operational dimension of the Pharmaceutical Information System (PIS)
12H30 – 12H45	Yousra BENMAKHLOUF, Naima GHAILANI NOUROUTI, Amina BARAKAT and Mohcine BENNANI MECHITA	Epilepsy in Intellectual Disability: Gender differences in Moroccan patients
12H45 – 13H00	Errouame Mohammed, Amrani Mahacine.	Life cycle assessment of the headrest manufacturing in Morocco
13H00 – 13H15	Youssef Ouassit, Soufiane Ardchir, Mohammed Yassine El Ghomari, Reda Moulouki, and Mohamed Azouzi	CT Liver Segmentation: A weakly supervised capsules model
13H15 – 13H30	Ouhda Mohamed, Aksasse Brahim, Zarouit Yousra	Medical Image Registration Technique Based on Partial Differential Equation
13H30 – 13H45	Hajar Baghdadi, Mohamed Lamhamdi, Karim Rhofir, and Sara Baghdadi	Brighten Buildings Naturally to Boost Immunity and Fight Covid19
13H45 – 14H00	Jamal Mabrouki, Mourade Azrou, Amina Boubekraoui, Driss Dhiba, Souad El Hajjaji	Non-contact infrared thermometer for monitoring population temperature infected with COVID-19
14H00 – 14H15	Wajih Abdelaziz Rhalem, Nabil Aqili, Imane Allali, Nassim Kharmoum, Ahmed Hammouch, Adnane Laghrissi, Hassan Ghazal, Mourad Raji and Sara Retal	Digital Technology and Artificial Intelligence facing COVID-19
14H15 – 14H30	Badr HSSINA, Hanane EZZIKOURI, Chama ESAILLI, and Mohamed ERRITALI	Towards Blockchain-Based Authentication for E-Health



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E TOPIC 5: Advanced Intelligent Systems for Sustainable Development applied Environment

DATE : 27-12-2020

PARALLEL SESSION 11:

SESSION CHAIRS : PR. AGOUTI TARIK & MOHAMMED YOUSSEF **12h00 to 14h45 - Room5**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://www.linkedin.com/company/ai2sd2020)

12H00 – 12H15	EL ATMANI Ayoub, BELHAILI Isslam, ELISMAILI Ifakkou, ELKHARRIM Khadija, BELGHYTI Driss	STUDY OF OUM-AZZA LANDFILL LEACHATES AND THEIR POLLUTION OF THE BOUREGREG RIVER, RABAT - MOROCCO
12H15 – 12H30	Abdelkrim Bouasria, Khalid IbnoNamr, Abdelmejid Rahimi, El Mostafa Ettachfini	Estimate soil organic matter from remote sensing data by using statistical predictive models
12H30 – 12H45	Belhaili Isslam, Alemad Ali, Aissati, Touria, Elatmani Ayoub, Elborjy Aziz, Benchikh Monsif, Belghyti Driss	Evaluation Of The Purifying Performance Of The Wwtp With Aerated Lagoons Of Wastewater Of The City Of Oujda (Morocco)
12H45 – 13H00	El khachine Douae, LAILA EL AJHAR, AHMED EL BAKOURI, MORARECHMOAD, ARGAZ YOUNES, EL KHARRIM Khadija & BELGHYTI DRISS	Energy Valorization Of Sludges From Anaerobic Digestion By The Tamuda Bay WWTP, Tetouan, Morocco
13H00 – 13H15	Anass Zayoun, Mohamed Yassine El Habi, Ahmed Raïssouni, El Houssine Bahousse and Abdelkrim El Arrim	Contribution Of Remote Sensing In Tracking The Evolution Of Land Use And Anthropogenic Impacts At The Sbei Of Oued Tahaddart
13H15 – 13H30	Ghizlane Fattah, Jamal Mabrouki, Fouzia Ghrissi	Modeling of CO2 fluxes: Study of the interactions of urban climate with CO2
13H30 – 13H45	Sanae LAMRANI, Houda EL AYADI, Nouredine BELMOKHTAR, Mohammed AMMARI, Laïla BEN ALLAL	Integration of an industrial waste in the manufacturing of a cementitious construction material
13H45 – 14H00	Ammari Abdesselam, Ammari Mohammed, Ben Allal Laila	Financial and Economic Assessment of rehabilitation of a drinking water supply: Case study
14H00 – 14H15	Ilham Boumendil, Asmae Baggar, Wadii Gaud, Taoufiq Fechtali and Amal Safi	Preservation of fish bones as semi-finished Products
14H15 – 14H30	Mohamed OUHSSINI, Karim AFDEL	Machine learning methods for DDoS attacks detection in the cloud environment
14H30 – 14H45	Alaeddine BOUKHALFA, Nabil HMIN, and Habiba CHAOUI	Survey on Security Monitoring and Intrusion Detection in the Big Data Environment



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PARALLEL SESSION 12:

SESSION CHAIRS :PR. EL BACHARI ESSAID&ABDELMAJID EL MOTAUOAKIL**12h00 to 14h30 - Room6**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	Aziz Moumen, Mustapha Jammoukh, Laidi Zahiri, and Khalifa Mansouri	Mechanical and Morphological Study of a Polymer Reinforced by an Animal Bio Load Using the Finite Element Method
12H15 – 12H30	A. GHACHA, M. AMMARI, L. BEN ALLAL	Solar drying: a new sustainable solution for sewage sludge management in Morocco
12H30 – 12H45	Aziz Moumen, Mustapha Jammoukh, Laidi Zahiri, and Khalifa Mansouri	Numerical Modeling of the Thermomechanical Behavior of Polypropylene Reinforced by Snail Shell Particles as a Sustainable and Ecological Biocomposite
12H45 – 13H00	JeniahHajar , El Ayadi Houda, Belmokhtar Nouredine, AmmariMohammed, Ben Allal Laïla	Development of a new waste valorisation process: A Case study
13H00 – 13H15	KhawlaMoulato, Asma Fakhri Lanjri, Mohammed Ammari, Laïla Ben Allal	Application of Life Cycle Assessment (LCA) to Urban Sludge Treatment Techniques for a Comparison Study: A Review
13H15 – 13H30	El Mehdi Jebrane and Ouafae ZeroualiOuariti	Smart City Concept Through a Literature Review
13H30 – 13H45	Badr-Eddine Boudriki Semlali, Chaker El Amrani	A Stream Processing Software for Air Quality Satellite Datasets
13H45 – 14H00	Sokaina El Khamliche, Amal Maurady, Elias Asimak, PanagiotaStathopoulou, Abdelfettah Sedqui and George Tsiamis	Detection and Characterization of Spiroplasma and Wolbachia in a Natural Population of Glossina Tachinoides
14H00 – 14H15	Hind ES SAOUINI, Mina AMHARREF et Abdes Samed BERNOUSSI, Rachid BOUCHNAN	Assessment of vulnerability to pollution by the DRASTIC and TCR methods and comparison of the obtained results: case of the R'Mel coastal aquifer (Loukkos, North-West Morocco).
14H15 – 14H30	Mohammed Yassine El Habti, Anas Zayoun, Ahmed Raissouni, El Houssine Bahousse1 and Abdelkrim el Arrim	Modeling and Digital Simulation of Coastal Kinematic at the Moroccan Atlantic Coast, application of geomatics



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PARALLEL SESSION 13:

SESSION CHAIRS :PR. EL HASSAN ABDELWAHID&MOULAY DRISS EL OUADGHIRI**09h00 to 11h45 - Room1**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN**: 782 963 088#**DATE** : 02-01-2021

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Lalla Amina Ouzaouit, Abdelmounim Qarbous, and Lahcen Bahi	Geostatistical Analysis of Geothermal Flow in Morocco
09H15 – 09H30	Aziza CHAKIR, Meriyem CHERGUI, Johan FERNANDESANDRY	Green IT: Digital Company's Best Color
09H30 – 09H45	Achraf YEDRI BAKKALI, Asmaa FAKIH LANJRI, Mohammed GAROUM, Karima EL AZHARY, Mohammed AMMARI, Laïla BEN ALLAL	A Comparative study of thermal performances of fired bricks incorporating an industrial waste
09H45 – 10H00	EL FELLAH Imad, Asmaa Fakih Lanjri, AMMARI Mohammed, BEN ALLAL Laïla	Contribution to the Study of the Mercury Immobilization by an EcoConstruction Material
10H00 – 10H15	Zakaria Kbiri, Bouazza Tbib and Khalil El-Hami	Advanced physico chemical characterizations for clay
10H15 – 10H30	Ikram CHAER, Asmae EL CADI, Mohamed. KHADDOR, Jamal. BRIGUI	Pyrolysis Temperature-Dependent Changes in the Characteristics of organic matter of Tangier landfill soil (morocco)
10H30 – 10H45	Abdelghafour El moutarajji, Abdelhafid Abouharim, Khalil El-Hami	Microstructural characterization and development of crystalline morphology of Polytetrafluoroethylene due to the Gadolinium addition
10H45 – 11H00	Abdelghafour El moutarajji, Bouazza Tbib, Ahmed Liba, Khalil El-Hami	Purity control using refractometer, spectroscopy IR and optical microscope to analyse new pigment-based phosphate Er ₂ P ₄ O ₁₃
11H00 – 11H15	Abdelhafid Abouharim, Abdelghafour El moutarajji, Khalil El-Hami	Experimental investigation of novel semiconductor nanofluid based Glycerol/MWCNT
11H15 – 11H30	Imad Krikech, Gaël Le Pennec, IratxeMenchaca, Joana Larreta, María Jesús Belzunce, Jose German Rodriguez, Miguel Caetano, Mohammed Ezziyyani, Javier Franco	Passive diffusive gradients in thin films sampling for regulatory monitoring of trace metals in estuaries water
11H30 – 11H45	Mohamed SaddekDerki, Nadia Taboudjemat-Nouali, and Omar Nouali	A fine-grained access control scheme in fog-IoT based environment



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TOPIC 6:Advanced Intelligent Systems for Sustainable Development applied Economy and Industry

DATE : 02-01-2021

PARALLEL SESSION 14:

SESSION CHAIRS : PR. LOUBNA CHERRAT & ADNANE LATIF **19h00 to 11h30 - Room2**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN:** 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Abdelmoula AIT ALLAL, Mouhcine ELGAREJL, Khalifa MANSOURI, Khalid EL HAD	Seawater Central Cooling System distributed approach for a safer autonomous ship
09H15 – 09H30	HADDACH Abdelhay, BENFSSAHI Mouna	Design and Management of Green Supply Chain
09H30 – 09H45	Ibtissem LARIBI MAATOU, Faiez Gargouri	Explicit Model Predictive Control of a drying blower temperature: The Piecewise Affine approach
09H45 – 10H00	Fatima Zahraa GRINE, Oulaid KAMACH, Naoufal SEFIANI	The Capacitated Single Allocation Hub Location Problem for Perishable Products
10H00 – 10H15	Sanae LARIOUI, Rim MARAH	Vehicle routes optimization: Real-time monitoring
10H15 – 10H30	Hanane YAAGOUBI, Hamid ABOUCHADI, Mourad TAHA JANAN	Topological Optimization By ANSYS 18.1 For The Additive Manufacturing
10H30 – 10H45	Abdelmoula AIT ALLAL, Khalifa MANSOURI, Khalid EL HAD, Mohamed YOUSSEFI	World Class Ship Maintenance and Reliability for a Sustainable Shipping Industry Competitiveness
10H45 – 11H00	Oumaima El Hairech, Abdelouahid Lyhyaoui	The New Generation of ERP in the era of Artificial Intelligence and industry 4.0
11H00 – 11H15	HANSALI Mohamed, GOURCH Abdelouahed, AGGOUR Abdelmounaim	The role of collaboration in the supply chain of the automotive industry in Morocco
11H15 – 11H30	Hanane Yatimi, Youness Ouberri, Rim Marah, Elhassan Aroudam	Industrial Automation PLC Implementation of MPPT Using P&O Algorithm for PV System Applications



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PARALLEL SESSION 15:

SESSION CHAIRS :PR. HAIMOUDI ELKHATIR&KAMAL LABASSI **19h00 to 11h30 - Room3**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Kaoutar Douaioui, Mouhsene Fri, Charif Mabrouki, El Alami Semma	Smart Supply Chain: An Overview of Key Benefits and Challenges
09H15 – 09H30	N.Lamarti, Houda EL AYADI, Mohamed Ammari, Laila Ben Allal	Recycling of caustic soda used in a pickling bath by an Aluminum industry
09H30 – 09H45	Benhari Mohamed Amine and Kaicer Mohammed	Using interval arithmetic on the De Leontief model
09H45 – 10H00	Loubna RACHIDI, Larbi TOUHAMI	The impact of the dematerialization of foreign trade procedures on stakeholders : Case of Morocco
10H00 – 10H15	Mohamed Achraf Laissaoui, Ouail El Imrani, Aziz BABOUNIA	The competitiveness of companies based on Benchmarking approach
10H15 – 10H30	Oumaima Ghanname, Aziz Babounia, Ouail El Imrani, and Mohamed Chrayah	The Optimization of automotive companies performance in Morocco
10H30 – 10H45	Houda JIHAL, Soumaya OUNACER, M.Yassine El Ghomari, Hicham Ait Elbour, and Mohamed Azzouazi	Anomaly detection: Case of mobile money transactions with Isolation Forrest
10H45 – 11H00	Nassim Kharmoum, Sara Retal, Karim El bouchti, Wajih Rhalem, and Soumia Ziti	Getting the UML's Behavior and Interaction Diagrams by Extracting Business Rules through the Data Flow Diagram
11H00 – 11H15	EL BAKKALI ASSIA, ZAIR FIRDAOUS, FOURKA MOHAMED	Omnichannel retailing: Literature review and a framework proposal for future research
11H15 – 11H30	Abdelilah Khabir, Zoubir ELFELSOUFI, Hamid AZZOUZI	The mastery of the evolution of human competence for optimal planning of human resource allocation



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G

TOPIC 7: Advanced In IT & Engineering

DATE : 02-01-2021

PARALLEL SESSION 16:

SESSION CHAIRS : PR. ABDOUN OTMAN & SALWA BELAQZIZ **12h00 to 14h45 - Room4**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	Houssameddine Yousfi, Amin Mesmoudi, Allel Hadjali, Houcine Matallah, and Fedoua Lahfa	Efficient R-tree Exploration for Big Spatial Data
12H15 – 12H30	Fatimazahra BARRAMOU and Khalifa MANSOURI	A Geo-ontology model for urban planning-Residential zoning
12H30 – 12H45	A. Tamim, M. Snoussi, S. El Fellah, K. Minaoui, and M. El Ansari	On Fuzzy Clustering Algorithms for SST Satellite Images Segmentation
12H45 – 13H00	Rim Marah, Inssaf El Gabassi, Sanae Larioui, Hanane Yatimi, Youness Ouberri	Managing the Smart Grid in Free Market
13H00 – 13H15	El Yachoui Maryam	Citizen Relationship Management, Big Data and Value Creation: A conceptual framework
13H15 – 13H30	Aziz Souali, Samira El Margae, Mohamed El Aroussi, and Youssef Fakhri	Real-Time Traffic Sign Recognition Via Improved Tiny-YOLOv3 on Sipeed MAIX AI Edge computing
13H30 – 13H45	Chaimaa Khouda, El Miloud Smaili, Salma Azzouzi and My El Hassan Charaf	An Optimized method for Face Recognition using PCA and PSO Techniques
13H45 – 14H00	Imane Lahbari and Said Ouatik El Alaoui	Exploring Semantic Similarity Measure Based on Word Embedding Representation for Arabic Passages Retrieval
14H00 – 14H15	El houssaine HSSAYNI and Mohamed ETTAOUIL	Deep Learning Based Sentiment Aware Ranking For E-commerce Product Search
14H15 – 14H30	Aatiq Oussama and Talea Mohamed	Semantic interoperability of EIS: Extension of Reverse Engineering approach for Web Services
14H30 – 14H45	Zineb Korachi and Bouchaib Bounabat	IT Management and Governance Framework for Formulating a Digital Transformation Strategy



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PARALLEL SESSION 17:

SESSION CHAIRS :PR. HADJ BARAKA IBRAHIM&MUSTAPHA MAATOUK**12h00 to 14h45 - Room5**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	AzeddineWahbi, Ahmed Roukhe, Bahloulbensassi, and LaamariHlou	Fake news detection methods: A Survey and New Perspectives
12H15 – 12H30	Hamid Aksasse, Brahim Aksasse, and Mohamed Ouanan	Social context-based non-overlapping communities' detection model in social networks
12H30 – 12H45	Naoual El-DjouherMehtouche and Nadia Baha	A Survey on Web Service Reconfiguration
12H45 – 13H00	Tarik Amtout, Mustapha Er-Riani, and Mustapha El Jarroudi	A New Dimensionality Reduction Approach Applied to the Big Data Visualization
13H00 – 13H15	Youness Abouqora and Lahcen Moumoun	Analysis of Performance Long Short-Term MemoryConvolutional Neural Network (LSTM-CNN) for Lifelong Learning on Indonesian Sentiment Analysis
13H15 – 13H30	Mariam RAMDI , Ouafae BAIDA, Oumaima LOUZAR, andAbdelouahid LYHYAOUI	Comparative study of two parallel algorithm K-Means and DBSCAN Clustering on Spark Platform
13H30 – 13H45	Nour El Imane Hamda ,MohandLagha , and AllelHadjali	Mathematical Methods for Data Fusion in IoT: A Survey
13H45 – 14H00	ElgarejMouhcine, Karouani Yassine, Khalifa Mansouri1, and Youssfi Mohamed	Smart Parking Guidance System Based On Distributed IoT Strategy
14H00 – 14H15	Ayoub ELMAARADI and Abdelouahid LYHYAOUI	Cloud-IoT platform with permissioned private blockchain integration
14H15 – 14H30	Badr El Khalyly, Abdessamad Belangour, AllaeErraissi, andMouad Banane	Towards a new Metamodel of Microservices and Devops Based Internet of Things Ecosystem
14H30 – 14H45	Souad Faïd and Mohamed Moughit	Quantifying the Scalability of SoftwareDefined Networks in 5G Network



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PARALLEL SESSION 18:

SESSION CHAIRS :PR. EL FELSOUFI ZOUBIR&FEDDOUL KHOUKHI **12h00 to 14h45 - Room6**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 –	Issam QAFFOU	"Adaptive Image Processing Using Multi-Agent Reinforcement Learning"
12H15 –		
12H15 –	Abdellah agrima, Abdelmajid Farchi Ilham Mounir, Laila elmazouzi, Badia Mounir,	Emotion Recognition from syllabic units Using KNN Classification and Energy distribution
12H30 –		
12H30 –	Fatima Zahra El Fatchy, Mohammed Khalil, and Abdellah Adib	End-to-End acoustic model using 1D CNN and LSTM networks with Focal CTC loss
12H45 –		
12H45 –	Ramou, N., Chetih, N., Boutiche, Y., Abdelkader, R. and Khorchef, M.	Image segmentation using Dirichlet process mixture model
13H00 –		
13H00 –	M. Ajdour, A. El Omri	A Fourier based numerical method for computing the effective property to simulate the behavior of a piezo-elastic multilayered plate
13H15 –		
13H15 –	Mohamed Mazighe, Mhamed El Mrabet, Abdelali Astito	Model referential adaptive control application for the permanent magnet synchronous machine in the automotive sector
13H30 –		
13H30 –	Ahmed Ouhnini, Brahim Aksasse and Mohammed Ouanan	Phonemes Recognition using Formant Analysis in the case of Consonant Vowel Transition Case "Amazigh Language"
13H45 –		
13H45 –	Abdelmoula Ait Allal, Mouhcine Elgarej, Khalifa Mansouri and Mohamed Youssfi	Main Engine Lubricating Oil System distributed approach for a safe autonomous ship
14H00 –		
14H00 –	Fatima Ezzahra Sakhi, Abdelmoula Ait Allal, Khalifa Mansouri and Mohammed Qbadou	Towards Determination of Key Port Performance Indicators for Implementation of Autonomous Ship
14H15 –		
14H15 –	Yassine Amadane, Hamid Mounir, Abdellatif EL Marjani, Samya Belarhzal	Computational fluid dynamics (CFD) analysis of the effect of cathode relative humidity variation on PEM fuel cell performance under dry anode conditions
14H30 –		
14H30 –	Badr El Khalyly, Abdessamad Belangour, Mouad Banane, and Allae Erraissi	Towards a new Metamodel of Internet of Things Ecosystem
14H45 –		



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PARALLEL SESSION 19:

SESSION CHAIRS :PR. SAIIDA LAZAAR&OUFAE BAIDA **09h00 to 11h45 - Room1**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN**: 782 963 088#**DATE** : 03-01-2021

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Laiadi Abdelhamid, Chentouf Abdellah, Ezziyyani Mostafa	Artificial Neural Network applications for predicting electrical characteristics of Dielectric Barrier Discharge
09H15 – 09H30	Ferdous Lahyani, Anass El mamouni, Mustapha Boukour, and Rachid Dkiouak	Estimating Effective Thermal Conductivity of Multi-Coated Fibrous Composites
09H30 – 09H45	El hachmi Talbi, Lhoussine Abaali, Rachid Skouri, and Mustapha El Moudden	A Robust Trust Region Based Multiplier Method for Optimal Electric Power Control with Valve-Point Loading Effects
09H45 – 10H00	El yamine DRIS, Redouane DRAI, Zohra DAHOU, and Daoud BERKANI	Probabilistic Technique for Monitoring Damage and Cracking of Concrete
10H00 – 10H15	Mohammed Rida Derraz, Mustapha Boukour, Anass El Mamouni, and Abderrahim El Omri	Three-dimensional Finite Radon Transform and Linear Homogenization
10H15 – 10H30	Sakina AMMARI, Aziza Benaboud, Mohamed TALEA	For a Future Smart Grid Management in Moroccan Rural Area: Mutilations and Opportunities
10H30 – 10H45	Rachid ABDIA, Khalil EL HAMI, Abdelkrim OUBRAHAM	Electrical transport mechanisms in CdAs ₂ semiconductor: theoretical models and experimental evidence at low temperatures
10H45 – 11H00	Hamza Khaldi, Hamid Mounir, Abdellatif El Marjani	PERFORMANCES REVIEW OF PEMFC PROTON EXCHANGE MEMBRANES AND CHALLENGES RELATED TO THEIR IMPROVEMENT
11H00 – 11H15	Zahidi Abedallah, Amrane Said, Azami Nawfel, and Naoual Nasser	Monitoring of solenoid parameters based on the neural networks and optical fiber squeezer for smart control of solenoid response
11H15 – 11H30	Safae Bourhnane, Mohamed Riduan Abid, Khalid Zine-Dine, Najib Elkamoun, and Driss Benhaddou	Energy Efficient Wireless Sensor Networks Microcontrollers, Wireless Communication Technologies, and Operating Systems for WSNs: A survey
11H30 – 11H45	Alaa Aadri, Najlae Idrissi	Wireless Sensor Networks: survey and challenges ahead



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TOPIC 9 : Intelligent Systems & Computing

DATE : 03-01-2021

PARALLEL SESSION 20:

SESSION CHAIRS : PR. KHALID ZINE-DINE & SAID OUATIK EL ALAOU **09h00 to 12h00 - Room2**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Imane El Boujnouni, Abdelhak Tali, and Khalid Bentaleb	Biometric Identification of Individuals Based on Scalograms of Electrocardiogram and Capsule Network
09H15 – 09H30	Amine EL HADI, Youness MADANI, Rachid EL AYACHI, and Mohamed ERRITALI	Use of n-grams model and semantic similarity to improve the results of search engine
09H30 – 09H45	D. Mhamdi, M. Azzouazi, M. Y. El Ghoumari, R. Moulouki, and Z. Rachik	Enhancing recruitment process using semantic matching
09H45 – 10H00	Adil ARAMJA, Oualid KAMACH	Decision support tool for manufacturing execution systems: Case study from the steel industry
10H00 – 10H15	Hafidi Meriem, El Hassan Abdelwahed, and Sara Qassimi	Time-aware user profile enrichment in the collective intelligence context
10H15 – 10H30	Fatima ES-SABERY and Abdellatif HAIR	A Parallel Rule-Based Fuzzy System to Classify Data Based on Fuzzy Logic and Decision Tree
10H30 – 10H45	Taif fatima, Mahrane Khaoula and Namir abdelwahed	Modeling Student Enrollment and calculate the budget at faculty and using a Discrete-Time Markov Chain Model
10H45 – 11H00	Ibtissam Touahri and Azzeddine Mazroui	Offensive language and hate speech detection based on transfer learning
11H00 – 11H15	Abdelhak Fadili, Mohamed El Aroussi, and Youssef Fakhri	Real-time Moroccan license plate recognition based on improved Tiny-YOLOv3
11H15 – 11H30	Naciri Bensaghir Ali, Khalid Amechnoue	Overview of a fuzzy bayesian network approach for dynamic safety analysis of runway incursion occurrences
11H30 – 11H45	Ihssane Choukri, Mohammed Ouzzif, Khalid Bouragba	Fault Tolerance in SDN Controllers
11H45 – 12H00	Fatima Zahrae Ait Hamou Aadi, Abdelalim Sadiq, and Fatima Zahra Chafi	A proposed IoT approach based vision for visually impaired people assistance



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PARALLEL SESSION 21:

SESSION CHAIRS :PR. HAJAR MOUSANNIF&MUSTAPHA OUARDOUZ**09h00 to 12h00 - Room3**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

09H00 – 09H15	Youssef LAMRANI ALAOUI, Adil El FAKIR, and Mohamed TKIOUAT	Towards new Framework for Modelling Project Selection in Crowdfunding platforms
09H15 – 09H30	FirdaousKhemlichi, Hiba Chougrad, Youness Idrissi Khamlichi, AbdessamadEl Boushaki, Safae El Haj Ben Ali	A Stock Trading Strategy Based On Deep Reinforcement Learning
09H30 – 09H45	Samir Boukil, Abd Elmajid El Moutaouakkil, Loubna Cherrat, Mostafa Ezziyyani	Deep learning approaches for Arabic sentiment analysis - case study: detection of potential suicide cases
09H45 – 10H00	Amina Samih, Abderrahim Ghadi, Abdelhadi Fennan	Translational-Randomwalk embeddings-based Recommender Systems: a pragmatic survey
10H00 – 10H15	Youssef CHOUNI, Mohammed ERRITALI, and Youssef OUADID	Comparison between the polarity inference approach and the sentiment fine analysis approach using tweets
10H15 – 10H30	Omayma El Majdoubi, Otman Abdoun and Farah Abdoun	Parallel Computing for Improving Optimization Performance of Laminated Composite Structures Application: Thermal Buckling
10H30 – 10H45	Rachid Fateh, Anouar Darif, and Said Safi	Identification of the linear dynamic parts of Wiener model using kernel
10H45 – 11H00	Rachid Fateh, Anouar Darif, and Said Safi	Kernel and linear adaptive methods for the BRAN channels identification
11H00 – 11H15	Ahmed Rabhi, Rachida Fissoune, and Hassan Badir	Saving knowledge about sources: An efficient method for querying distributed data
11H15 – 11H30	Hassan Bousnguar, Lotfi Najdi, Amal Battou	Students' enrollment forecasting based on Deep Learning Algorithms and Statistical Approaches
11H30 – 11H45	Fatima Zahra Chafi, Youssef Fakhri, and Fatima Zahrae Ait Hamou Aadi	Introduction to Internet of Things' Communication protocols
11H45 – 12H00	Omar Arroub, Anouar Darif, Rachid Saadane, and Moly Driss Rahmani	Performance comparison of Localization Techniques in term of accuracy in Wireless Sensor Networks



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PARALLEL SESSION 22:

SESSION CHAIRS :PR. MOHAMMED BAHAI&KHALIDJBARI **12h00 to 15h00 - Room4**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	Abdelkader Adla, Abdelkader Ould-Mahraz, Bouhalouan Djamilia	A Knowledge-Based Recommender System for Mortgage Lending
12H15 – 12H30	MAAROUF Otman, EL AYACHI Rachid, and BINIZ Mohamed	Part-of-Speech Tagging using Conditional Random Fields and Decision Tree: Amazigh text written in Tifinaghe characters
12H30 – 12H45	Lamiche Chaabane	Minimizing Total Weighted Tardiness on a Single Machine Scheduling Problem Using a Genetic Solver
12H45 – 13H00	R. Moulouki, M.Y. EL GHOUARI, M. Azouazi, S. BAYOUD and A. Rachik	Traffic Speed Prediction Using Convolution Neural Networks
13H00 – 13H15	Kaicer Mohammed, Hajjaji ibtissam	SME's failure prediction with machine learning: An overview
13H15 – 13H30	Fadoua Tamtam, Amina Tourabi	Organizational agility assessment using fuzzy logic approach
13H30 – 13H45	Kaoutar Douaoui, Mouhsene Fri, Charif Mabrouki, and El Alami Semma	A multiobjective integrated procurement, production, and distribution problem of supply chain network
13H45 – 14H00	Mahassine Hamdi, Mouna Atik El Ftouh, Mohamed Fourka	Artificial intelligence techniques for supply chain: critical analysis and innovative process proposal
14H00 – 14H15	Mourad Jbene and Smail Tigani	Deep Learning Based Sentiment Aware Ranking For E-commerce Product Search
14H15 – 14H30	Wafa Guefrech, Sahbi ZAHAF, Faiez Gargouri	Semantic interoperability of EIS: Extension of Reverse Engineering approach for Web Services
14H30 – 14H45	Abdellah OUAGUID, Nouredine ABGHOOR, and Mohamed OUZZIF	Node Security Metric: Proof of Conformity Blockchain Consensus Protocol
14H45 – 15H00	Mohamed Saad AZIZI, Moulay Lahcen HASNAOUI and Abdelaziz EL YAZIDI	Software defined network for energy efficiency in WSN and simulation of RPL protocol



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PARALLEL SESSION 23:

SESSION CHAIRS : PR. MOHAMMED REDA BRITEL & MOHAMMED AHACHAD **12h00 to 15h00 - Room5**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN:** 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	Zineb Ferhat Hamida, Allaoua Refoufi, and Ahlem Drif	Fake news detection methods: A Survey and New Perspectives
12H15 – 12H30	Rachid Djerbi, Allel Hadjali, Mourad Amad, Rabah Imache, and Mohamed T. Bennai	Social context-based non-overlapping communities' detection model in social networks
12H30 – 12H45	AbdEssalam Messiaid, Farid Mokhati, Rohallah Benaboud	A Survey on Web Service Reconfiguration
12H45 – 13H00	Mimoun Lamrini, Hicham Tribak, Mohamed Yassin Chkouri	A New Dimensionality Reduction Approach Applied to the Big Data Visualization
13H00 – 13H15	Gita Kartika Suriah, Rezki Hadiansah, Hendri Murfi, Gianinna Ardaneswari, Lucky Dwi Cahya, Farhatun Nurhaniifah	Analysis of Performance Long Short-Term Memory Convolutional Neural Network (LSTM-CNN) for Lifelong Learning on Indonesian Sentiment Analysis
13H15 – 13H30	Safae Bouhout, Youness Oubenaalla, El Habib Nfaoui	Comparative study of two parallel algorithm K-Means and DBSCAN Clustering on Spark Platform
13H30 – 13H45	Hanane ELFAIK, El Habib NFAOUI	Sentiment Analysis in Social Networks Using Convolutional Neural Networks
13H45 – 14H00	Nassera HABBAT, Houda ANOUN, and Larbi HASSOUNI	Exploration, sentiment Analysis, topic modeling, and visualization of Moroccan Twitter Data
14H00 – 14H15	Kawtar Najmani, El Habib Benlahmar, Nawal Sael, Ahmed Zellou	Collaborative Filtering Approach: A Review of Recent Research
14H15 – 14H30	Salima Lamsiyah, Abdelkader El Mahdaouy, Bernard Espinasse, and Said Ouattik El Alaoui	Unsupervised Query-Focused Multi-Document Summarization using uSIF Sentence Embedding Model and Maximal Marginal Relevance Criterion
14H30 – 14H45	Mohamed Lahjouji, Jamila el Alami and Mustapha Hlyal	Blockchain applications for improving track and trace process on pharmaceutical supply chain
14H45 – 15H00	Amroune Mohamed, Salima Bourougaa-tria, Yamina Guenez	"Cyberattack Detection in Mobile Cloud Computing: A Deep Learning approach"



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PARALLEL SESSION 24:

SESSION CHAIRS : PR. AMAL MAURADI & HASSAN SILKAN **12h00 to 15h00 - Room6**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN:** 782 963 088#

Live Presentation : [Lien de live.com](https://live.com)

12H00 – 12H15	LASSRI Safae, BENLAHMAR EL Habib, TRAGHA Abderrahim	Web Page Classification based on an Accurate Technique for Key Data Extraction
12H15 – 12H30	Aziza CHAKIR, Meriyem CHERGUI, Johanes FERNANDES ANDRY	Toward improving Smart Cities by using Big Data and Artificial Intelligence
12H30 – 12H45	Khaoula Fatnassi, Sahbi Zahaf, and Faiez Gargouri	Comparison of the Response Time between Small data and Bigdata of the BPIS Datasets Requests
12H45 – 13H00	Nour El Imane Hamda, Mohand Lagha, and Allel Hadjali	Mathematical Methods for Data Fusion in IoT: A Survey
13H00 – 13H15	Elgarej Mouhcine, Karouani Yassine, Khalifa Mansouri, and Youssfi Mohamed	Smart Parking Guidance System Based On Distributed IoT Strategy
13H15 – 13H30	Ayoub ELMAARADI and Abdelouahid LYHYAOUI	Cloud-IoT platform with permissioned private blockchain integration
13H30 – 13H45	M. Khardioui, A. Bamoul, M.D. El ouadghiri, and B. Aghoutane	Control packet-based Intrusion Detection System for the IoT network layer
13H45 – 14H00	Abderrahim Zannou, Abdelhak Boulaalam, and El Habib Nfaoui	Expedient and Non-expedient Nodes in the Internet of Things
14H00 – 14H15	Mourade AZROUR	Security Analysis of Nikooghadam et al.'s Authentication Protocol for Cloud-IoT
14H15 – 14H30	Jihane Jebrane1 and Saiida Lazaar	Comparison Study of Lightweight Hash Functions for an Authentication Solution on IoT
14H30 – 14H45	Meryem BENOTMANE, Kaoutar ELHARI	Survey and analysis of IoT Reference Architectures Models and their comparisons
14H45 – 15H00	Abdelmoula AIT ALLAL, Loubna El Amrani, Abdelfatteh HAIDINE, Khalifa MANSOURI, Mohamed YOUSSEFI	Towards Deployment of UAV's for Autonomous Ships' 5G Mobile Communication



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Poster Sessions

SESSION CHAIRS : SANAE KHALI ISSA & MUSTAPHA MAATOUK **Date : 02-01-2021**

Online Meeting ID : meet.google.com/xbp-dciq-pac PIN: 782 963 088# **12h30 To 14h30**

Live Presentation : [Live.academyskills.net/ai2sd](https://live.academyskills.net/ai2sd)

Noureddine BELMOKHTAR, Mohammed AMMARI, Laïla BEN ALLAL	Prediction of compressive strength of geopolymers based on calcined kaolin clay at different temperatures using ANN Method.
AIT BENNACER FATIMA-EZZAHRA, AAROUD ABDESSADEK, AKODADI KHALID, AIT BENNACER SARA, CHERRADI BOUCHAIB	"New concept based on Artificial Intelligence for an eSport platform at the time of COVID-19: Case of Shotokan Karate"
HANANE ALLIOUI, MOHAMED SADGAL, AND AZIZ ELFAZZIKI	"Game Theory for Medical Image Segmentation: An advanced Multi-Agent System approach"
KASSOU MANAR, KHOULJI SAMIRA	Blockchain, Big Data and IoT to improve the Healthcare sector
EZZIYYANI Mohammed	Mushrooms: From their therapeutic properties to antipathogenic uses.
Chaima MOUMOUH, Mohamed Yassin Chkouri, José Luis Fernández Alemán,	Security and privacy of patients' data
YASSINE ISSAOUI, AZEDDINE KHIAT, AYOUB BAHNASSE, HASSAN OUAJJI	Smart logistics: A robust enterprise transition perspective
Khalil El-Hami	Morphological rearrangement of P(VDF-TrFE)/SWCNT nano composite under high electron beam
AMMARI MANAL, CHENTOUF MOHAMMED, AMMARI MOHAMMED, BEN ALLAL LAÏLA	Assessment of sustainable supply chain management in the automotive industry using a system dynamics model – a case study of Morocco
Salima Bourougaa-tria, YASSINE AKROUT	An IOT system for Smart environment: Smart Public Bin Based on Waste sorting.
CHENTOUF MOHAMMED, ALLOUCH MOHAMED	EVALUATING THE ROLE OF RENEWABLE ENERGIES ON ENERGY SECURITY IN MOROCCO BY DEVELOPING A NEW AGGREGATED INDICATOR
El Houssine BAHOUSSE, Ahmed RAÏSSOUNI, YASSINE HABTI, Anas ZAYOUN et Abdelkrim EL ARRIM	La Géomatique au service de l'environnement et la résilience territoriale : Cas de la gestion intégrée des carrières

SESSION CHAIRS : FEDDOUL KHOUKHI & MOHAMMED REDA BRITEL **Date : 03-01-2021**

Online Meeting ID : meet.google.com/xbp-dciq-pac **PIN:** 782 963 088# **12h30 To 14h30**

Live Presentation : [Live.academyskills.net/ai2sd](https://live.academyskills.net/ai2sd)

LAHIOUEL YASMINA, BEDDIAF SOUAD	NLP-differential algorithm approach for the optimization of looped water distribution systems
IKRAM FRAR, MOHAMMED AMMARI, LAÏLA BEN ALLAL	VALORIZATION OF AN URBAN SEWAGE SLUDGE IN BRICKSMANUFACTURING
EZZIYYANI Mohammed, HAMDACHE Ahlem, LAKSIBY Ikram, KRIKECH Imad, EGEA-GILABERT Catalina, REQUENA Maria Emilia	Biological control of root-knot nematodes on pepper plants using <i>Bacillus steartothermophilus</i> and <i>Paecilomyces lilacinus</i> in combination
IMAD KRIKECH, IRATXE MENCHACA, MARIA JESUS BELZUNCE, MIGUEL CAETANO, JAVIER FRANCO, JOANA LARRETA, JOSE GERMAN RODRIGUEZ, GAËL LE PENNEC, MOHAMMED EZZIYYANI	Using DGT Passive Samplers for regulatory monitoring of trace metals in coastal water
SOUKAINA BENABDELOUAHAB, JABER EL BOUHDIDI, YACINE EL YOUNOUSSI, JUAN MANUAL CARRILLO	Web education development based on social network analysis
IMANE ROUAH, SAMIRA KHOULJI, MOHAMED LARBI KERKEB	The impact of mobile learning on students' performance : Moroccan university case study
Sara Haffane, Salahddine Hamdoune, Abdelilah Azyat, Abdelali Astito	An IoT Based Low Cost Air Quality Monitoring Unit: Design & Architecture
ELMERINI RAJAE, BENSLIMANE MOHAMED, ZOUADI TARIK, E-CHARRAT MOHAMED RIDA	ILS algorithm to solve the dynamic Location-Routing-Pricing Problem with profit maximization
KHAMLICHY HANANE, ZOUADI TARIK, OUFASKA KENZA, ECH-CHARRAT MOHAMMED RIDA, DKIOUAK RACHID,	Carbon emission minimization in a green dynamic cellular manufacturing system
Ouail El Imrani and Salmane Bouekkadi	Effect of sanitary confinement on the consumer price index: the case of Morocco
Mohammed Ezziyyani and Ahlem Hamdache	Sensor Network Proposal for Greenhouse Automation of the cultivation of strawberries placed at the smart farm
LAHIOUEL YASMINA, BEDDIAF SOUAD	Extended period simulation analysis of water distribution networks