



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 Emerging Technologies for e-Learning and Academy Skills

EDUCATION
AGRICULTURE
ENERGY
HEALTH
ENVIRONMENT
INDUSTRY
ECONOMY

**3rd
Edition**


Springer

General Chair
Pr. Mostafa EZZIYANI
E-mail : mezziiyani@uae.ac.ma

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

AI2SD'2020

HONORARY GUESTS



Pr. JANUSZ KACPRZYK
SRI
Poland-Warsaw



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



Pr. IKKEN Badr
Director of IRESEN
Rabat-Morocco



Pr. STTOU Mustapha
Interim President of
Abdelmalek Essaadi University
Tetouan - Morocco



**Pr. Abderrahman
El Maâroufi**
Director of the Institute Pastor
Morocco



**Pr. STEPHANE Monney
Mouandjo**
Director of CAFRAD
Rabat-Morocco



Pr. HBID HASSAN
Dean of FSSM
Marrakech-Morocco



**Pr. NOUREDDINE
MOUADDIB**
President of UIR
Rabat-Morocco



Pr. Khalid El Bikri
Director of ENSAM
RABAT



Pr. AHALAT Mohammed
Dean of the Faculty of
Medicine and Pharmacy
Tangier-Morocco



Mr. MAGHNI Ahmed
Director of ENCG
Tangier - Morocco



Pr. ADDOU Mohamed
Dean of FSTT
Tangier-Morocco

AI2SD'2020 Tangier, Morocco

KEYNOTE SPEAKERS



Pr. JANUSZ KACPRZYK
SRI
Poland-Warsaw



Pr. Mustapha BENNOUNA
Euro Med University
Fes-Morocco



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



Pr. IKKEN Badr
Director of IRESEN
Rabat-Morocco



Pr. Kawtar Hafidi
Associate Laboratory Director for
Physical Sciences and Engineering
Argonne, France



Pr. Mohamed SEAID
Durham University
United Kingdom



Pr. Maria FASLI
Executive Dean
University of Essex
United Kingdom



Pr. SAID RACHAFI
Abdelmalek Essaadi University
Morocco



Pr. Tarik CHAFIK
Abdelmalek Essaadi University
Tangier-Morocco



Pr. Lloret Mauri JAIME
UPV
Valencia-Spain



Pr. Khadija Hormi
University of Richland
Texas, USA



Pr. Khairiyah Mohd-Yusof
Professor & Founding Director
Centre for Engineering Education
Malaysia



Pr. Valentina Emilia Balas
Professor of Informatics
Aurel Vlaicu University of Arad
Romania



Pr. EL FALLAH Seghrouchni
Sorbonne University
France



Pr. A. Ibrahim IDRIS
Dean of the faculty of engineering
Djibouti



Pr. Faiez GARGOURI
Sfax University
Tunisia

AI2SD'2020

KEYNOTE SPRAKERS



Pr. Abdel Labbi
IBM Distinguished Engineer
& Program Director
Data & AI Platforms



Mr. Plamen Kiradjiev
Global CTO Industrie 4.0,
IBM Distinguished Engineer



Pr. Cristiano Malossi
Manager, AI Automation
at IBM



Mr. Teodoro Laino
Researcher, Manager bei
IBM Research Europe



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



Mr. Oussama Rais
Soudane



Pr. Pascal LORENZ
Haute-Alsace University
Mulhouse - France



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



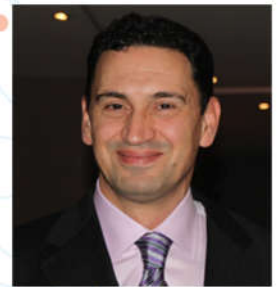
Pr. Yousef ALABDALLAT
Minister of High Education
Jordan



Pr. Khadija SABRI
Portugal



Mr. Philippe ROOSE
Associate Professor
University of Pau
France



Dr. Samir Kaddar
President of the Association of
Moroccan Medical Skills
Belgium



Pr. OKBA KAZAR
Biskra University
Algeria



Pr. Adil HAFIDI ALAOU
Abdelmalek Essaadi University
Tangier-Morocco



Dr. Jalal HAMMARI
DBC
Germany



Pr. Khalid Zine Dine
Mohammed V University
Rabat, Morocco

AI2SD'2020

Tangier, Morocco

COURSE LEADERS



Pr. BALOUKI YOUSSEF
University Hassan 1st,
Settat, Morocco



Pr. ESSOUFI ELHASSAN
University Hassan 1st
Settat Morocco



Pr. DABOUNOU JAOUAD
University Ibn Tofail
Kenitra, Morocco



Pr. Mridekh AbdelAziz
University Ibn Tofail
Kenitra Maroc



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



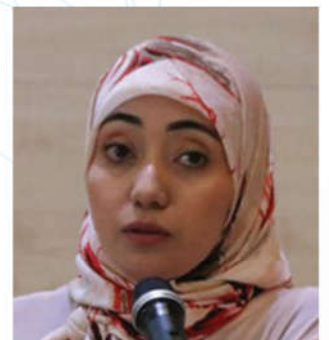
Pr. Taha Ait Tchakoucht
Euromed University
Fes, Morocco



Mr. Jalal HAMMARI
Founder and Agile Coach
in the Digitalization
Germany



Pr. Khadija SABRI
Blockchain and Data
Security expert
Portugal



Pr. Soumaya EL MAMOUNE
Professor - researcher
at EMSI-Rabat
Morocco

AI2SD'2020

Tangier, Morocco

PROGRAM SUMMARY

OPENING HOURS

Online 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
Face to face activities 	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	Webinar Special Panel 2 Industry 4.0	Industry 4.0 challenge and digital transformation for new Africa generation - IBM	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			
	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**



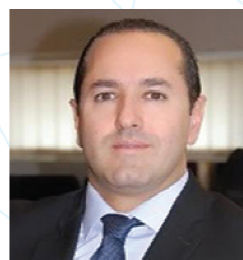
Mr. AMZAZI Saaid
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Polish Academy of Sciences
Poland-Warsaw



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Interim President of
Abdelmalek Essaadi university
Tetouan - Morocco



Pr. MOUADDIB Nouredine
President of International
University of Rabat
Rabat-Morocco



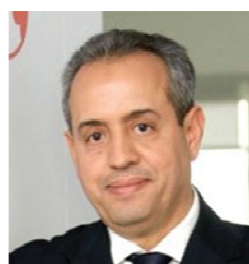
Pr. HBID Hassan
President of Cadi Ayyad
University
Marrakech-Morocco



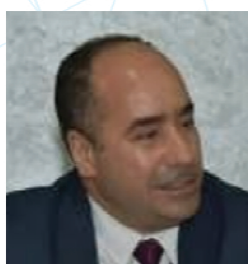
Pr. Yan Xiaohong
President of Jiangsu
University
China



Pr. ADDOU Mohamed
Dean of FSTT
Tangier-Morocco



Mr. BAHEJ Hassan
Président Directeur Général
at IBM Maroc



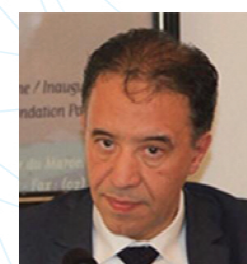
Pr. MAGHNI Ahmed
Director of ENCG
Tangier - Morocco



Pr. AHALAT Mohammed
Dean of the Faculty of
Medicine and Pharmacy
Tangier-Morocco



Pr. Khalid El Bikri
Director of ENSAM
RABAT



Pr. El MAAROUFI Abderrahman
Director of the Institute
Pastor of Morocco



Mr. STEPHANE Monney Mouandjo
Director of CAFRAD
Rabat-Morocco



Pr. EZZIYANI Mostafa
AI2SD General Chair
Tangier-Morocco



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

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 EZZIYYANI
University Abdelmalek Essaadi
Tangier, Morocco



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



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



Pr. Khadija Hormi
University of Richland
Texas, USA



Pr. Hassan Ghazal
President of the Moroccan
association of tele-medicine
and e-health - Morocco



Dr. Francesco Sicurello
President of the EMSTMI
Italy



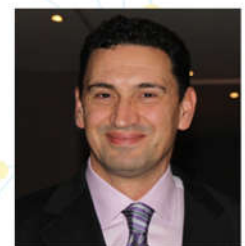
Mr. Frederic Lievens
General secretary
of the ISiTeH
Belgium



Mr. Jean-Daniel Zucker
Senior Researcher
Research Institute for Development
France



Mr. Abderrahman Elkafli
Representant pour la region
Mena Gnu health initiative
Belgium



Dr. Samir Kaddar
President of the Association of
Moroccan Medical Skills
Belgium

**FOURTH DAY
22-12-2020**

Webinar Special Panel Series

2

10:00 - 13:00

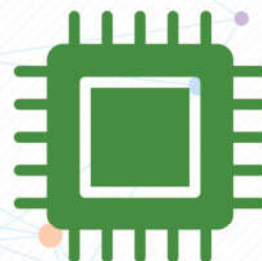
Topic: Industry 4.0

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



Pr. JANUSZ KACPRZYK
SRI
Poland-Warsaw



Pr. Valentina Emilia Balas
Professor of Informatics
Aurel Vlaicu University of Arad
Romania



Mr. Philippe ROOSE
Associate Professor
University of Pau
France



Pr. Giancarlo Fortino
Computer Engineering
Della Calabria University
Italy



Dr. Jalal HAMMARI
DBC
Germany



Pr. Essaadi Mohammed
University Abdelmalek Essaadi
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

Sponsored by

IBM.

Third
23-12-2020

Webinar Special Panel Series 3

中国时间: 17:00-20:00
Morocco Time: 10:00am-13:00

Topic:Environmental

China-Morocco International Seminar on Environment Technology Transfer

中国-摩洛哥环境技术转移国际研讨会

主持人Moderator



邢纪国 Pr.Xing Jiguo
中国国际科技促进会 技术协作部主任
Director of Technical Cooperation Department, China
International Association for the Promotion of
Science and Technology
中国-阿拉伯国家技术文化转移(中心)平台主任
Director of China - Arab States Technology&Culture
Transfer Center Platform



Pr. Mostafa EZZIYYANI
University Abdelmalek Essaadi
Tangier, Morocco
摩洛哥丹吉尔阿卜杜拉马勒克艾萨迪大学

主讲人speaker



马雪征博士 Dr. Xuezheng Ma
中国检验检疫科学研究院 副研究员
Chinese Academy of Inspection and
Quarantine Research associate
题目: 生物气溶胶采集与检测
Title: Bioaerosol sampling and
detection



李鹏博 Dr. Bill
神州数码控股有限公司售前总监
Digital China Holdings Co., Ltd Pre-
sales Director (Smart City Service
Group)
题目: (中国数字乡村建设)
Topic: (Digital villagen in China)



曾志坚 Dr. Ken
神州数码控股有限公司售前总监
Digital China Holdings Co., Ltd Pre-sales
Director (Smart City Service Group)
题目: (云DaaS: 数据数据价值之利器)
(YanCloudDaaS: A smart weapon of
innovating data value)



廖华平 CTO Lam
北京恩萨工程技术有限公司
技术总监 Beijing ENSA Engineering
Co., Ltd (chief technology officer)
题目: 先进的固体废弃物解决方案与
应用案例分享 Advanced Solid Waste
Solutions and Case Sharing



王婧 Mrs. Wang Jing
中控华清科技(北京)有限公司 项目负责人
Project leader of China Control HuaQing
Tech (Beijing) Ltd.
题目: 铅酸电池的修复利用
Topic: Repair and utilization of lead-acid
batteries



马露 Sophia
宁夏华清科技文化发展有限公司 项目负责人
Ningxia HuaTsing Technology and Culture
Communication Co., Ltd. Project manager
题目: 霍乱疫情背景下消杀技术 Topic: Elimination
technology under normalized epidemic prevention
and control

THIRD DAY
23-12-2020

Webinar Special Panel Series

3

13:00 - 16:00

Topic: Environment & Energy

A new perspective of global renewable energy for sustainable environment



Moderator

Pr. Driss Ouazar
Complex Systems Expert
Rabat, Morocco



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



Pr. Kawtar Hafidi
Associate Laboratory Director for
Physical Sciences and Engineering
Argonne, France



Pr. IKKEN Badr
Director of IRESEN
Rabat-Morocco



Pr. Tarik CHAFIK
Abdelmalek Essaadi University
Tangier-Morocco



Pr. SAID RACHAFI
Abdelmalek Essaadi University
Morocco



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



Pr. A. Ibrahim IDRIS
Dean of the faculty of engineering
Djibouti



Pr. SAADOUNE Ismael
Cady Iyad University
Marrakech- Morocco

Fourth
24-12-2020

Webinar Special Panel Series

4

中国时间: 17:00-20:00

Morocco Time: 10:00am-13:00

Topic: Agricultural

China-Morocco International Seminar on Agriculture Technology Transfer

中国-摩洛哥农业技术转移国际研讨会

主持人 Moderator



郑纪国 Pr. Xing Jiguo

中国国际贸易促进委员会 技术转移部主任
Director of Technical Cooperation Department, China
International Association for the Promotion of
Science and Technology
中国-阿拉伯国家技术转移网络（中心）主任 兼 主席
Director of China - Arab States Technology Transfer
Transfer Center Platform



Pr. Mostafa EZZIYANI

University Abdelmalek Essaadi
Tangier, Morocco
摩洛哥舍夫沙乌伊拉阿卜杜勒马利克艾萨迪大学

主讲人 speaker



吴伟军 Mr. Wu Wujun

农业农村部农业生态与资源环境保护研究所
Research Institute for Agricultural Ecology and Resource
Conservation, Ministry of Agriculture
Director, National Center for Agricultural Ecology and
Resource Conservation, Ministry of Agriculture



刘健 Mr. Liu Jian

中国国际贸易促进委员会 技术转移部主任
Director of Technical Cooperation Department, China
International Association for the Promotion of
Science and Technology
中国-阿拉伯国家技术转移网络（中心）主任 兼 主席
Director of China - Arab States Technology Transfer
Transfer Center Platform



李现强 Mr. Li Xianqiang

广东省农业科学院 农业生态与资源环境保护研究所
Guangdong Academy of Agricultural Sciences
Research Institute for Agricultural Ecology and
Resource Conservation
主任 兼 首席专家
Director and Chief Expert



吴震强 Mr. Wu Zhenqiang

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Guangdong Academy of Agricultural Sciences
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Resource Conservation
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Director and Chief Expert



姚开成 Mr. Yao Kaicheng

农业农村部农业生态与资源环境保护研究所
Research Institute for Agricultural Ecology and Resource
Conservation, Ministry of Agriculture
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Director and Chief Expert



祝永刚 Mr. Zhu Yungang

中国国际贸易促进委员会 技术转移部主任
Director of Technical Cooperation Department, China
International Association for the Promotion of
Science and Technology
中国-阿拉伯国家技术转移网络（中心）主任 兼 主席
Director of China - Arab States Technology Transfer
Transfer Center Platform



罗忠强 Mr. Luo Zhongqiang

广东省农业科学院 农业生态与资源环境保护研究所
Guangdong Academy of Agricultural Sciences
Research Institute for Agricultural Ecology and
Resource Conservation
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Director and Chief Expert



李现强 Mr. Li Xianqiang

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Guangdong Academy of Agricultural Sciences
Research Institute for Agricultural Ecology and
Resource Conservation
主任 兼 首席专家
Director and Chief Expert

02-01-2021

Webinar Special Panel

12:00 - 14:00

Artificial intelligence and Applications



Moderator

Pr. Mostafa EZZIYYANI
University Abdelmalek Essaadi
Tangier, Morocco



Pr. Mohamed SEAID
Durham University
United Kingdom



Pr. Maria FASLI
Executive Dean
University of Essex
United Kingdom

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AI2SD'2020

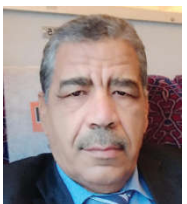
Tangier, Morocco

SUMMER SCHOOL PROGRAM



Pr. SOUMAYA EL MAMOUNE

Summer School Coordinator

	16 :00 – 17 :30	17 :30 – 19 :00
Tuesday, DEC 22th 2020 Tutorial 1  	Neural Networks for NLP (Word2vec, RNN, LSTM, Transformers) Pr. DABOUNOU JAOUAD	Optimization Methods for Deep Learning Pr. ESSOUFI ELHASSAN
Wednesday, Dec 23th 2020 Tutorial 2  	Principals of Machine reasoning Pr. BALOUKI YOUSSEF	Models and approximate and effective resolution for the management of critical situations (Application: Covid 19) Pr. SOUMAYA EL MAMOUNE
Thursday, Dec 24th 2020 Tutorial 3  	Géodata et intelligence artificielle Pr. Mridekh AbdelAziz	Blockchain technology: How to reshape the public sector ? Pr. Khadija SABIRY
Friday, Dec 25th 2020 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



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

PARALLEL SESSION 1:

SESSION CHAIRS : CHERRAT LOUBNA, EZZIYANI MOSTAFA

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

Date : 26-12-2020

08h30 To 10h30

Room 1

08H30 08H45	Karima Attariuas, Mouna Atik El Ftouh and Mohamed Fourka	Design of Smart Service Platform for Collaborative Last-Mile Delivery in Urban Area
08H45 09H00	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
09H00 09H15	Imane El GHISSASSI, Hassan AZDIMOUSA	ENTREPRENEUR PROFILE: A NEW CONCEPTUAL MODEL
09H15 09H30	Sonia Souabi, Asmaâ Retbi, Mohammed Khalidi Idrissi, Samir Bennani	Evaluating The Performance of Online Courses During Covid19 in a Moroccan Context
09H30 09H45	Safae Berrichi and Azzeddine Mazroui	The Impact of Word Segmentation Techniques on Neural and Statistical Machine Translation: English-Arabic case
09H45 10H00	Meryem SOUAIDI, Mohamed El Ansari	Automated Detection of Wireless Capsule Endoscopy Polyp Abnormalities with Deep Transfer Learning and Support Vector Machines
10H00 10H15	Sonia Souabi, Asmaâ Retbi, Mohammed Khalidi Idrissi, Samir Bennani	A Hybrid Recommendation System based on Correlation and co-occurrence within Social Learning Network
10H15 10H30	Louzar Oumaima, Baida Ouafae, Ramdi Mariam, Lyhyaoui Abdelouahid	An Overview of Detecting Fake Accounts on Twitter Networks
10H30 10H45	Samia Rami, Samir Bennani, Mohammed Khalidi Idrissi	Towards a New Framework of automatic detection of learning style based on FSLM

PARALLEL SESSION 2:

SESSION CHAIRS : ECH-CHARRAT MOHAMMED RIDA, AAROUD ABDESSADEK

Date : 26-12-2020

08h30 To 10h30

Room 2

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

08H30 08H45	Rajae Zriaa, and Said Amali	Recommendation of learning objects through dynamic learning style identification and k-means clustering algorithm
08H45 09H00	Jihane Jebrane and Saiida Lazaar	Comparison Study of Lightweight Hash Functions for an Authentication Solution on IoT
09H00 09H15	Ahmed OUHNINI, Mohammed OUANAN and Brahim AKSASSE	Phonemes Recognition using Formant Analysis in the case of Consonant Vowel Transition Case "Amazigh Language"
09H15 09H30	Naoual Nassiri , Abdelhak Lakhouaja, and Violetta Cavalli-Sforza	Combining Classical and Non-Classical Features to Improve Readability Measures for Arabic First Language Texts
09H30 09H45	Ouafae EL AISSAOUI, Lahcen OUGHDIR	A learning style-based approach for Matching the learner profile ontology and the learning content ontology
09H45 10H00	Bensalah Nouhaila, Ayad Habib, Adib Abdellah, and Ibn el farouk Abdelhamid	Combining Word and Character Embeddings for Arabic Chatbots
10H00 10H15	Hioual Ouided, Hioual Ouassila, Hemam Sofiane Mounine, and Maifi Lyes	A new method for predicting failures in Cloud Computing
10H15 10H30	Yassine BENLACHIMI, Abdelaziz EL YAZIDI, Mohamed Saad AZIZI and Moulay lahcen HASNAOUI	Performance evaluation of hadoop tools using Word Count algorithm
10H30 10H45	Mohamed Amroune, Ahlem Bouguettaya	An efficient Deep Learning approach for Sentiments classification based on Bi-LSTM network
10H45 11H00	Driss ELHACHMI, Lahcen BAHY, Latifa OUADIF, Hanane	Historic monuments of Salé Medina, Morocco Identification and diagnosis

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SESSIONS CONTENT

PARALLEL SESSION 3:

SESSION CHAIRS : ABDOUN OTMAN, SEDDIKI NOURA

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

Date : 26-12-2020

08h30 To 10h30

Room 3

08H30 08H45	Kaoutar JBIRA, Jamila EL ALAMI, and Mustapha HLYAL	Lean and green: What impact on environmental performance: A literature Review
08H45 09H00	El Alami Mohamed, El Khabbazi Sara	An affective and Multi-Agent system for autistic children
09H00 09H15	Fatima Zohra Lhafra, Otman Abdoun	Hybrid approach to recommending adaptive remediation activities based on assessment results in an e-learning system using machine learning
09H15 09H30	Soumaya Ounacer , Houda Jihal, Kenza Bayoude, Abderrahmane Daif and Mohamed Azzouazi	Handling imbalanced datasets in the case of credit card fraud
09H30 09H45	Jihane ABDESSADAK , Abdellatif BEN ABDELLAH , Kamal REKLAOUI	University FabLab or Maker space as a source of innovation
09H45 10H00	Youssef Mnaoui , Aouatif Najoua, and Hassan Ouajji	Automatic English Proficiency Assessment for Air Traffic Controllers in Emergencies
10H00 10H15	Maryam ED-DAIBOUNI, El Habib Benlahmar and Rabie BARHOUN	Researcher Profile Model for Academic Environment
10H15 10H30	EL ALAMI Mohamed and AHEDAR Sihame	Adaptive Intelligent Multi-Arrangement Architecture For Autistic Children Learning
10H30 10H45	Farah Saidi, Zakaria Kaddour and Abed Malti	Time-Step Dependent Spring's Stiffness for Numerical Stability of Mass-Spring Models
10H45 11H00	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 : DERFOUFI SOUFIANE, ECH-CHARRAT MOHAMMED RIDA

Date : 26-12-2020

12h30 To 14h30

Room 4

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

12H30 12H45	Younes Jamouli and Mustapha Hlyal, Jamila EL Alami	Positive outcomes of co-creation in institutional student partnership
12H45 13H00	Soufiane Ardchir, Amina Rachik, Youssef Ouassit, Reda Moulouki and Mohamed Azzouazi	An Efficient Feature Selection Approach for MOOCs Dropout Prediction
13H00 13H15	Ouafae EL AISSAOUI, Lahcen OUGHDIR	A literature Review on Student Modeling purposes
13H15 13H30	Yassir Zardoua, Abdelali Astito, Mohammed Boulaala, and Yassir Dokkali	A Short Overview of Horizon Detection Methods Applied to Maritime Video Stabilization
13H30 13H45	Ait M'hamed Jamal, Foffie Stevmelin, and Ezzine Abdelhak	A novel framework for Traffic Sign Detection and Recognition (TSDR)
13H45 14H00	Lina Mouden, Mustapha Ouardouz, Noureddine Belmokhtar, Mohammed Ammari, Laila Ben Allal	Three-Dimensional Printing of a New Construction Material: A Laboratory- Scale Study
14H00 14H15	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
14H15 14H30	Toufik Datsi, Khalid Aznag, Ahmed El Oirrak	A Novel Approach for Handwritten Digit Recognition Using Multilayer Perceptron Neural Network
14H30 14H45	Meryem Amane, Karima Aissaoui, Mohammed Berrada	Big Data in E-learning: Literature Review and challenges
14H45 15H00	Noureddine Seddari, Sara Kerraoui, and Marwa Drissi	"A Novel Approach to Model Learners in a Collaborative Human Learning Environment"
15H00 15H15	Said Saadani, Abdessadek Aaroud and Mehdi Maanane	SUITABLE AREA FOR EDUCATIONAL EQUIPMENT IMPLANTATION IN THE CITY OF EL JADIDA

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SESSIONS CONTENT

B

TOPIC 2 : Advanced Intelligent Systems for Sustainable Development applied Agriculture

PARALLEL SESSION 5:

SESSION CHAIRS : AHACHAD MOHAMMED, CHERRAT LOUBNA

Date : 26-12-2020

12h30 To 14h30

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

Room 5

12H30 12H45	Inass ZAYANI, Karima BOUHAFI, Mohammed AMMARI, Laïla BEN ALLAL	Soil Fertility Management on Smart Production System Resilient to Climate Change
12H45 13H00	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
13H00 13H15	Hassania FARHOUNE, Abdellah BENBIA, Meriem Mdarhri ALAOUI, Souad CHERKAOU	THE SUBSTRATE EFFECT ON VEGETATIVE GROWTH AND DEVELOPMENT OF THE ARGAN TREE "ARGANIA SPINOSA L SKEEL."
13H15 13H30	Fatima-zahra El-Alami, Said Ouatik El Alaoui	Combining and Merging Deep Neural Networks for Arabic Text Categorization
13H30 13H45	Naima Azzouzi, Nisrine Laghmire, Said Zantar, Mohammed Reda Britel, Amal Maurady	Changes in Textural and quality of blackberry during postharvest cold storage
13H45 14H00	A. BAGGAR, A. SAFI, F. GABOUN, A. BENALI, M.R KABOUR, N. BENBRAHIM.	Agro-morphological traits assessment and polyphenols components 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

PARALLEL SESSION 6:

SESSION CHAIRS : ZINE-DINE KHALID, BEGDOURI AHLAME

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

Date : 26-12-2020

12h30 To 14h30

Room 6

12H30 12H45	LAGRAINI Hajar, CHHIBA Mostafa, TABYAOUI Abdelmoumen, and MOUHSEN Ahmed	LEVEL-CROSSED: A SOLUTION FOR ENERGY SAVING IN WIRELESS SENSOR NETWORKS
12H45 13H00	Aiman Chaibi, 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
13H00 13H15	Husam Awad, Ghada abu Al goboz, Naem Harb, Shareif Shurab	Case study design of a stand-alone photovoltaic power system in gaza-strip and generalizing a program simulation
13H15 13H30	Imane Amarir, Hamid Mounir, and Abdellatif El Marjani	Durability Analysis of Welded Rectangular Profiles under Damped Loads for Automotive Utilization
13H30 13H45	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
13H45 14H00	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
14H00 14H15	Hajar.Bnouachir, Meriyem Chergui, Mourad Zegrari, Aziza Chakir, Laurent Deshayes, Hicham Medromi	Smart fleet management system based on multi-agent systems: Mining context
14H15 14H30	Ikram Labtaini and Khalil El-Hami	Pulse cleaning optimization and numerical analysis of the pulsed air jet nozzle for improving a cleaning performance
14H30 14H45	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
14H45 15H00	Ahmed Khoumsi	Efficient collaborative energy trading between smart grids using blockchain and smart contracts

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PARALLEL SESSION 7:

SESSION CHAIRS : SILKAN HASSAN, EL KALKHA HANAE

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

Date : 27-12-2020

08h30 To 10h30

Room 1

08H30 08H45	Kamal Jemmad, Abdelhamid Hmidat, and Abdallah Saad	Energy performance assessment by “IEB” indicator of five main departments in a Moroccan hospital
08H45 09H00	Charifa Haouraji, Abdelmajid Farchi, Ilham Mounir, Badia Mounir,	Using machine learning tools for forecasting residential Liquefied Petroleum Gas demand in Morocco.
09H00 09H15	A. El madani, O. Daoudi, M. Fahoume, M. Lharch, A. Qachaou, K.Nouneh	Experimental and ab-initio investigation of the physical properties of PbS nanoparticles prepared by chemical bath deposition (CBD)
09H15 09H30	Younes FARKACH, Soufiane DRFOUFI, and Mustapha MAHDAOUI	Numerical investigation of laminar natural convection in annulus space based on lattice Boltzmann method
09H30 09H45	M.A. Moussaoui, S. Derfoufi, A. Mezrhab	Radiation effect in a square cavity containing a circular cylinder with discrete bottom heating
09H45 10H00	Imane Amarir, Hamid Mounir, and Abdellatif El Marjani	Fatigue Damage Assessment of Welded Rectangular Profiles by Numerical Simulation
10H00 10H15	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)
10H15 10H30	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
10H30 10H45	Doudou Youssra, Cherkaoui Abdeljabbar	Contribution to a smart grid by optimizing battery life

D

TOPIC 4 : Advanced Intelligent Systems for Sustainable Development applied Health

PARALLEL SESSION 8:

SESSION CHAIRS : KHALI ISSA SANAE, GÜRBÜZ TARKAN

Date : 27-12-2020

08h30 To 10h30

Room 2

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

08H30 08H45	Mohammed Kalloub, Abdelrahman Alshaikh Ahmad, Iyad Abu Sada, Mohammed Hwehi, Nafez Alqerim	Eversion carotid endarterectomy, A preferable Technique for carotid re-vascularization. Retrospective analysis.
08H45 09H00	Souad Bechrouri, Hamid Mraoui, Abdelilah Monir, and Adil Maleb	Lymphocyte Count Prediction Using Machine Learning and UF-1000i Sysmex Preliminary results
09H00 09H15	Lahcen El Bouny, Mohammed Khalil, and Abdellah Adib	ECG Heartbeats Classification based on 1-D Convolutional Neural Networks?
09H15 09H30	Zuherman Rustam, Glori Stephani Saragih	Implementation of Random Forests for the Classification of Chronic and Acute Sinusitis
09H30 09H45	Samira Lafraxo and Mohamed El Ansari	Regularized Convolutional Neural Network for Pneumonia Detection trough Chest X-Rays
09H45 10H00	Jane Eva Aurelia, Zuherman Rustam, Sri Hartini, and Nurlia Angie Darmawan	Comparison between Convolutional Neural Network and Random Forest as classifier for Cerebral Infarction
10H00 10H15	Ilsya Wirasati, Zuherman Rustam, Jane Eva Aurellia	One Dimensional Convolutional Neural Network for Classifying Sinusitis
10H15 10H30	Ilsya Wirasati, Zuherman Rustam, Jane Eva Aurellia	Cerebral Infarction Classification Using Genetic Algorithm Neural Network and Stochastic Neural Network

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SESSIONS CONTENT

PARALLEL SESSION 9:

SESSION CHAIRS : LATIF ADNANE, MAURADY AMAL

Date : 27-12-2020

08h30 To 10h30

Room 3

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

08H30 08H45	Zuherman Rustam, Glori Stephani Saragih	An Improved of Accuracy in Soft Tissue Tumor Classification with Random Forests
08H45 09H00	Sandra Viciano-Tudela, Javier Rocher, Daniel A. Basterrechea, Lorena Parra, Jaime Lloret	Low-Cost Sensor to Detect the Blood in Urine
09H00 09H15	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
09H15 09H30	Zuherman Rustam, Nurlia Angie Darmawan, Sri Hartini, Jane Eva Aurelia	Support Vector Machines and Naïve Bayes Classifier for Classifying A Prostate Cancer
09H30 09H45	Chaimae Moumouh, Mohamed Yassin Chkouri, José Luis Fernández Alemán	Bibliometric analysis of scientific literature in Security and Electronic
09H45 10H00	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
10H00 10H15	Mouad RIYAD, Mohammed KHALIL, and Abdellah ADIB	MR-EEGNet: An Efficient ConvNets for motor imagery classification
10H15 10H30	Mohamed Amine Rguibi, Abdellah Madani, and Najem Moussa	Predicting the Growth of COVID-19 in Morocco by Adopting an ARIMA Model
10H30 10H45	Assia BOUHOUDAN, Fatima CHIDI, Mustapha KHADDOR	Induction of Aging and apoptosis by Sucrose in Penicillium aurantiogriseum
10H45 11H00	Ed-drissiya El-allaly, Mourad Sarrouti, Noureddine En-Nahnahi, and Said Ouatik El Alaoui	A weighted online recurrent extreme learning machine-based method for disease names recognition

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SESSIONS CONTENT

PARALLEL SESSION 10:

SESSION CHAIRS : EL MOUSSAOUI SAID, BADDAOUI JALIL

Date : 27-12-2020

12h30 To 14h30

Room 4

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

12H30 12H45	Boutaina Ettetuani, Ahmed Moussa, and Rajaa CHAHBOUNE	Functional Cluster Analysis of Glomerular Disease
12H45 13H00	Sahbi Zahaf, Faiez Gargouri	Enterprise Information System Approach: Operational dimension of the Pharmaceutical Information System (PIS)
13H00 13H15	Yousra BENMAKHLLOUF, Naima GHAILANI NOUROUTI, Amina BARAKAT and Mohcine BENNANI MECHITA	Epilepsy in Intellectual Disability: Gender differences in Moroccan patients
13H15 13H30	Errouame Mohammed, Amrani Mahacine.	Life cycle assessment of the headrest manufacturing in Morocco
13H30 13H45	Youssef Ouassit, Soufiane Ardchir, Mohammed Yassine El Ghomari, Reda Moulouki, and Mohamed Azouzi	CT Liver Segmentation: A weakly supervised capsules model
13H45 14H00	Ouhda Mohamed, Aksasse Brahim, Zarouit Yousra	Medical Image Registration Technique Based on Partial Differential Equation
14H00 14H15	Jamal Mabrouki, Mourade Azrour, Amina Boubekraoui, Driss Dhiba, Souad El Hajjaji	Non-contact infrared thermometer for monitoring population temperature infected with COVID-19
14H15 14H30	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
14H30 14H45	Badr HSSINA, Hanane EZZIKOURI, Chama ESAILI, and Mohamed ERRITALI	Towards Blockchain-Based Authentication for E-Health
14H45 15H00	Youssef CHOUNI, Mohammed ERRITALI, and Youssef OUADID	Comparison between the polarity inference approach and the sentiment fine analysis approach using tweets
15H00 15H15	Soumaya EL MAMOUNE, Mostafa EZZIYYANI	Smart architecture for Health monitoring system

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SESSIONS CONTENT

E

TOPIC 5 : Advanced Intelligent Systems for Sustainable Development applied Environment

PARALLEL SESSION 11:

SESSION CHAIRS : EL HASSAN ABDELWAHED, AKSASSE BRAHIM

Date : 27-12-2020

12h30 To 14h30

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

Room 5

12H30 12H45	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
12H45 13H00	Abdelkrim Bouasria, Khalid Ibno Namr, Abdelmejid Rahimi, El Mostafa Ettachfini	Estimate soil organic matter from remote sensing data by using statistical predictive models
13H00 13H15	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)
13H15 13H30	Anass Zayoun, Mohamed Yassine El Habti, 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
13H30 13H45	Ghizlane Fattah, Jamal Mabrouki , Fouzia Ghrissi	Modeling of CO2 fluxes: Study of the interactions of urban climate with CO2
13H45 14H00	Sanae LAMRANI, Houda EL AYADI, Noureddine BELMOKHTAR, Mohammed AMMARI, Laïla BEN ALLAL	Integration of an industrial waste in the manufacturing of a cementitious construction material
14H00 14H15	Ammari Abdesselam, Ammari Mohammed, Ben Allal Laila	Financial and Economic Assessment of rehabilitation of a drinking water supply: Case study
14H15 14H30	Ilham Boumendil, Asmae Baggar, Wadii Goaud, Taoufiq Fechtali and Amal Safi	Preservation of fish bones as semi-finished Products
14H30 14H45	Mohamed OUHSSINI, Karim AFDEL	Machine learning methods for DDoS attacks detection in the cloud environment
14H45 15H00	Alaeddine BOUKHALFA, Nabil HMIN, and Habiba CHAOUI	Survey on Security Monitoring and Intrusion Detection in the Big Data Environment
15H00 15H15	Mariam RAMDI, Ouafae BAIDA, Oumaima LOUZAR, and Abdelouahid LYHYAOUI	An overview about Privacy Protection of Facebook Social Network Users Data

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SESSIONS CONTENT

PARALLEL SESSION 12:

SESSION CHAIRS : ALFATHI NAJLAE, AGOUTI TARIK

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

Date : 27-12-2020

12h30 To 14h30

Room 6

12H30 12H45	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
12H45 13H00	A. GHACHA, M. AMMARI, L. BEN ALLAL	Solar drying: a new sustainable solution for sewage sludge management in Morocco
13H00 13H15	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
13H15 13H30	Jeniah Hajar , El Ayadi Houda, Belmokhtar Nourredine, Ammari Mohammed, Ben Allal Laïla	Development of a new waste valorisation process: A Case study
13H30 13H45	El Mehdi Jebrane and Ouafae Zerouali Ouariti	Smart City Concept Through a Literature Review
13H45 14H00	Badr-Eddine Boudriki Semlali, Chaker El Amrani	A Stream Processing Software for Air Quality Satellite Datasets
14H00 14H15	Sokaina El Khamlichi, Amal Maurady, Elias Asimakis, Panagiota Stathopoulou, Abdelfettah Sedqui and George Tsiamis	Detection and Characterization of Spiroplasma and Wolbachia in a Natural Population of Glossina Tachinoides
14H15 14H30	Hind ES SAOUINI, Mina AMHARREF et Abdes Samed BERNOUSSI, Rachid BOUCHNAN	Evaluation of the intrinsic vulnerability of R'Mel coastal aquifer (Loukkos, North-West Morocco) by parametric methods DRASTIC and TCR and comparison of the obtained results
14H30 14H45	Mohammed Yassine El Habti, Anas Zayoun, Ahmed Raissouni1, El Houssine Bahousse1 and Abdelkrim el Arrim	Modeling and Digital Simulation of Coastal Kinematic at the Moroccan Atlantic Coast, application of geomatics
14H45 15H00	Saadia El Hajjami, Salah Souabi and Mohammed El Alami	Assessment of pollution by phosphate and nitrogen elements from Sebou and Oum Er Rbia, Morocco

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SESSIONS CONTENT

PARALLEL SESSION 13:

SESSION CHAIRS : FAKHRI YOUSSEF, SEDDIKI NOURA

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

Date : 02-01-2021

08h30 To 10h30

Room 1

08H30 08H45	Lalla Amina Ouzzaouit, Abdelmounim Qarbous, and Lahcen Bahi	Geostatistical Analysis of Geothermal Flow in Morocco
08H45 09H00	Aziza CHAKIR, Meriyem CHERGUI, Johanes FERNANDES ANDRY	Green IT: Digital Company's Best Color
09H00 09H15	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
09H15 09H30	EL FELLAH Imad, Asmaa Fakhil Lanjri, AMMARI Mohammed, BEN ALLAL Laïla	Contribution to the Study of the Mercury Immobilization by an EcoConstruction Material
09H30 09H45	Zakaria Kbiri, Bouazza Tbib and Khalil El-Hami	Advanced physico chemical characterizations for clay
09H45 10H00	Ikram CHAER, Asmae EL CADI, Mohamed. KHADDOR, Jamal. BRIGUI	Pyrolysis Temperature-Dependent Changes in the Characteristics of organic matter of Tangier landfill soil (morocco)
10H00 10H15	Abdelghafour El moutarajji, Abdelhafid Abouharim, Khalil El Hami	Microstructural characterization and development of crystalline morphology of Polytetrafluoroethylene due to the Gadolinium addition
10H15 10H30	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
10H30 10H45	Abdelhafid Abouharim, Abdelghafour El moutarajji, Khalil El-Hami	Experimental investigation of novel semiconductor nanofluid based Glycerol/MWCNT
10H45 11H00	Imad Krikech, Gaël Le Pennec, Iratxe Menchaca, 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
11H00 11H15	Mohamed Saddek Derki, Nadia Taboudjemat-Nouali, and Omar Nouali	A fine-grained access control scheme in fog-IoT based environment
11H15 11H30	Mohammed Eddy and Khalil El-Hami	Structural modification of doped hydroxyapatite nanoparticles

SESSION CHAIRS : JEBARI KHALID, AAROUD ABDESSADEK		Date : 02-01-2021 08h30 To 10h30 Room 2
08H30 08H45	Abdelmoula AIT ALLAL, Mouhcine ELGAREJL, Khalifa MANSOURI, Khalid EL HAD	Seawater Central Cooling System distributed approach for a safer autonomous ship
08H45 09H00	HADDACH Abdelhay, BENFSSAHI Mouna	Design and Management of Green Supply Chain
09H00 09H15	Ibtissem LARIBI MAATOUG, Faiez Gargouri	Explicit Model Predictive Control of a drying blower temperature: The Piecewise Affine approach
09H15 09H30	Fatima Zahraa GRINE, Oulaid KAMACH,Naoufal SEFIANI	The Capacitated Single Allocation Hub Location Problem for Perishable Products
09H30 09H45	Sanae LARIOUI, Rim MARAH	Vehicle routes optimization: Real-time monitoring
09H45 10H00	Hanane YAAGOUBI, Hamid ABOUCHADI, Mourad TAHA JANAN	Topological Optimization By ANSYS 18.1 For The Additive Manufacturing
10H00 10H15	Abdelmoula AIT ALLAL, Khalifa MANSOURI, Khalid EL HAD, Mohamed YOUSSEFI	World Class Ship Maintenance and Reliability for a Sustainable Shipping Industry Competitiveness
10H15 10H30	Oumaima El Hairech, Abdelouahid Lyhyaoui	The New Generation of ERP in the era of Artificial Intelligence and industry 4.0
10H30 10H45	HANSALI Mohamed, GOURCH Abdelouahed, AGGOUR Abdelmounaim	The role of collaboration in the supply chain of the automotive industry in Morocco
10H45 11H00	Hanane Yatimi, Youness Ouberri, Rim Marah, Elhassan Aroudam	Industrial Automation PLC Implementation of MPPT Using P&O Algorithm for PV System Applications
11H00 11H15	ALFATHI NAJLAE, LYHYAOUI ABDELOUAHID, SEDQUI ABDELFETTAH	Product-Driven manufacturing launch of semi-finished product

PARALLEL SESSION 15:

SESSION CHAIRS : BEN ALLAL LAÏLA, AMMARI MOHAMMED

Date : 02-01-2021

08h30 To 10h30

Room 3

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

08H30 08H45	Kaoutar Douaioui, Mouhsene Fri, Charif Mabrouki, El Alami Semma	Smart Supply Chain: An Overview of Key Benefits and Challenges
08H45 09H00	N.Lamarti, Houda EL AYADI, Mohamed Ammari, Laila Ben Allal	Recycling of caustic soda used in a pickling bath by an Aluminum industry
09H00 09H15	Benhari Mohamed Amine and Kaicer Mohammed	Using interval arithmetic on the De Leontief model
09H15 09H30	Loubna RACHIDI, Larbi TOUHAMI	The impact of the dematerialization of foreign trade procedures on stakeholders : Case of Morocco
09H30 09H45	Mohamed Achraf Laïssaoui, Ouail El Imrani, Aziz BABOUNIA	The competitiveness of companies based on Benchmarking approach
09H45 10H00	Oumaima Ghanname, Aziz Babounia, Ouail El Imrani, and Mohamed Chrayah	The Optimization of automotive companies performance in Morocco
10H00 10H15	Houda JIHAL, Soumaya OUNACER, M.Yassine El Ghomari, Hicham Ait Elbour, and Mohamed Azzouazi	Anomaly detection: Case of mobile money transactions with Isolation Forrest
10H15 10H30	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
10H30 10H45	Abdelilah Khabir, Zoubir ELFELSOUFI, Hamid AZZOUZI	The mastery of the evolution of human competence for optimal planning of human resource allocation
10H45 11H00	Ramz Tsouli Fathi, Mohammed Ammari, Maroi Tsouli Fathi and Laïla Ben Allal	Using adaptive systems for project management: Research challenges

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SESSIONS CONTENT

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TOPIC 7 : Advanced In IT & Engineering

PARALLEL SESSION 16:

SESSION CHAIRS : ALFATHI NAJLAE, LAZAAR SAIDA

Date : 02-01-2021

12h30 To 14h30

Room 4

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

12H30 12H45	Houssameddine Yousfi, Amin Mesmoudi, Allel Hadjali, Houcine Matallah, and Fedoua Lahfa	Efficient R-tree Exploration for Big Spatial Data
12H45 13H00	Fatimazahra BARRAMOU and Khalifa MANSOURI	A Geo-ontology model for urban planning-Residential zoning
13H00 13H15	M. Snoussi, A. Tamim, S. El Fellah, K. Minaoui, and M. El Ansari	Automated Boundary Delineation of Moroccan Coastal Upwelling in Infrared Ocean Images
13H15 13H30	Rim Marah, Inssaf El Gabassi, Sanae Larioui, Hanane Yatimi, Youness Ouberri	Managing the Smart Grid in Free Market
13H30 13H45	El Yachoui Maryam	Citizen Relationship Management, Big Data and Value Creation: A conceptual framework
13H45 14H00	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
14H00 14H15	Chaimaa Khouda, El Miloud Smali, Salma Azzouzi and My El Hassan Charaf	An Optimized method for Face Recognition using PCA and PSO Techniques
14H15 14H30	Imane Lahbari and Said Ouatik El Alaoui	Exploring Semantic Similarity Measure Based on Word Embedding Representation for Arabic Passages Retrieval
14H30 14H45	El houssaine HSSAYNI and Mohamed ETTOUIL	A Novel Pooling Method for Regularization of Deep Convolutional Neural networks and Application to Image Classification
14H45 15H00	Aatiq Oussama and Talea Mohamed	End-to-End Deep Learning for autonomous vehicles lateral control using CNN
15H00 15H15	Zineb Korachi and Bouchaib Bounabat	IT Management and Governance Framework for Formulating a Digital Transformation Strategy

PARALLEL SESSION 17:

SESSION CHAIRS : EL MOUSSAOUI SAID, ECH-CHARRAT MOHAMMED RIDA

Date : 02-01-2021

12h30 To 14h30

Room 5

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

12H30 12H45	Azeddine Wahbi, Ahmed Roukhe, Bahloul bensassi, and Laamari Hlou	Towards a New Design for Acoustic Echo Cancellation (AEC) using Neural Network and backpropagation algorithm
12H45 13H00	Hamid Aksasse, Brahim Aksasse, and Mohamed Ouanan	A Deep LearningBased System for Habit Classification
13H00 13H15	Naoual El-Djouher Mebtouche and Nadia Baha	Robust Object Detection based on Deep Neural Network and Saliency Features from Visible and Thermal Images
13H15 13H30	Tarik Amtout, Mustapha Er-Riani, and Mustapha El Jarroudi	Applications of Lie symmetry analysis to the natural convection flow of boundary layer past an inclined surface
13H30 13H45	Youness Abouqora and Lahcen Moumoun	A Hybrid Deep Learning Network CNN-SVM for 3D Mesh Segmentation
13H45 14H00	Nour El Imane Hamda , Mohand Lagha , and Allel Hadjali	Mathematical Methods for Data Fusion in IoT: A Survey
14H00 14H15	Elgarej Mouhcine, Karouani Yassine, Khalifa Mansouri1, and Youssfi Mohamed	Smart Parking Guidance System Based On Distributed IoT Strategy
14H15 14H30	Badr El Khalyly, Abdessamad Belangour, Allae Erraissi, and Mouad Banane	Towards a new Metamodel of Microservices and Devops Based Internet of Things Ecosystem
14H30 14H45	Souad Faid and Mohamed Moughit	Quantifying the Scalability of Software Defined Networks in 5G Network
14H45 15H00	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 18:

SESSION CHAIRS : RHALEM WAJIB ABDELAZIZ, SABIRY KHADIJA

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

Date : 02-01-2021

12h30 To 14h30

Room 6

12H30 12H45	Issam QAFFOU	"Adaptive Image Processing Using Multi-Agent Reinforcement Learning"
12H45 13H00	Abdellah agrima, Abdelmajid Farchi Ilham Mounir, Laila elmazouzi, Badia Mounir,	Emotion Recognition from syllabic units Using KNN Classification and Energy distribution
13H00 13H15	Fatima Zahra El Fatehy, Mohammed Khalil, and Abdellah Adib	End-to-End acoustic model using 1D CNN and LSTM networks with Focal CTC loss
13H15 13H30	Ramou, N., Chetih, N., Boutiche, Y., Abdelkader, R. and Khorchef, M.	Image segmentation using Dirichlet process mixture model
13H30 13H45	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
13H45 14H00	Mohamed Mazighe, Mhamed El Mrabet, Abdelali Astito	Model referential adaptive control application for the permanent magnet synchronous machine in the automotive sector
14H00 14H15	Abdelmoula Ait Allal, Mouhcine Elgarej, Khalifa Mansouri and Mohamed Youssfi	Main Engine Lubricating Oil System distributed approach for a safer autonomous ship
14H15 14H30	Fatima Ezzahra Sakhi, Abdelmoula Ait Allal, Khalifa Mansouri and Mohammed Qbadou	Towards Determination of Key Port Performance Indicators for Implementation of Autonomous Ship
14H30 14H45	Yassine Amadane, Hamid Mounir, Abdellatif EL Marjani, Samya Belarhzel	Computational fluid dynamics(CFD) analysis of the effect of cathode relative humidity variation on PEM fuel cell performance under dry anode conditions
14H45 15H00	Badr El Khalyly, Abdessamad Belangour, Mouad Banane, and Allae Erraissi	Towards a new Metamodel of Internet of Things Ecosystem
15H00 15H15	Mohammed Eddy and Khalil El-Hami	Optical and optoelectronic properties of hydroxyapatite powder modified by heavy metal ions of lead and cadmium

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PARALLEL SESSION 19:

SESSION CHAIRS : EZZIYYANI MOSTAFA, ZOUADI TARIK

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

Date : 03-01-2021

08h30 To 10h30

Room 1

08H30 08H45	Laiadi Abdelhamid, Chentouf Abdellah, Ezziyyani Mostafa	Artificial Neural Network applications for predicting electrical characteristics of Dielectric Barrier Discharge
08H45 09H00	Ferdaous Lahyani ,Anass El mamouni, Mustapha Boukour, and Rachid Dkiouak	Estimating Effective Thermal Conductivity of Multi-Coated Fibrous Composites
09H00 09H15	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
09H15 09H30	El yamine DRIS , Redouane DRAI, Zohra DAHOU, and Daoud BERKANI	Probabilistic Technique for Monitoring Damage and Cracking of Concrete
09H30 09H45	Mohammed Rida Derraz, Mustapha Boukour, Anass El Mamouni, and Abderrahim El Omri	Three-dimensional Finite Radon Transform and Linear Homogenization
09H45 10H00	Sakina AMMARI, Aziza Benaboud, Mohamed TALEA	For a Future Smart Grid Management in Moroccan Rural Area: Mutilations and Opportunities
10H00 10H15	Rachid ABDIA, Khalil EL HAMI, Abdelkrim OUBRAHAM	Electrical transport mechanisms in CdAs ₂ semiconductor: theoretical models and experimental evidence at low temperatures
10H15 10H30	Hamza Khaldi, Hamid Mounir, Abdellatif El Marjani	PERFORMANCES REVIEW OF PEMFC PROTON EXCHANGE MEMBRANES AND CHALLENGES RELATED TO THEIR IMPROVEMENT
10H30 10H45	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
10H45 11H00	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
11H00 11H15	Alaa Aadri, Najlae Idrissi	Wireless Sensor Networks: survey and challenges ahead
11H15 11H30	Ayoub ELMAARADI and Abdelouahid LYHYAOUI	Cloud-IoT platform with permissioned private blockchain integration

TOPIC 9 : Intelligent Systems & Computing

PARALLEL SESSION 20:

SESSION CHAIRS : BELAQZIZ SALWA, AIT TCHAKOUCHT TAHA

Date : 03-01-2021
08h30 To 10h30
Room 2

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

08H30 08H45	Imane El Boujnouni, Abdelhak Tali, and Khalid Bentaleb	Biometric Identification of Individuals Based on Scalograms of Electrocardiogram and Capsule Network
08H45 09H00	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
09H00 09H15	D. Mhamdi, M. Azzouazi1, M. Y. El Ghomari1, R. Moulouki, and Z. Rachik	Enhancing recruitment process using semantic matching
09H15 09H30	Adil ARAMJA, Oualid KAMACH	Decision support tool for manufacturing execution systems: Case study from the steel industry
09H30 09H45	Hafidi Meriem, El Hassan Abdelwahed, and Sara Qassimi	Time-aware user profile enrichment in the collective intelligence context
09H45 10H00	Fatima ES-SABERY and Abdellatif HAIR	A Parallel Rule-Based Fuzzy System to Classify Data Based on Fuzzy Logic and Decision Tree
10H00 10H15	Taif fatima, Mahrane Khaoula and Namir abdelwahed	Modeling Student Enrollment and calculate the budget at faculty and using a Discrete-Time Markov Chain Model
10H15 10H30	IbtissamTouahri and Azzeddine Mazroui	Offensive language and hate speech detection based on transfer learning
10H30 10H45	Abdelhak Fadili, Mohamed El Aroussi, and Youssef Fakhri	Real-time Moroccan license plate recognition based on improved Tiny-YOLOv3
10H45 11H00	Naciri Bensaghir Ali , Khalid Amechnoue	Overview of a fuzzy bayesian network approach for dynamic safety analysis of runway incursion occurrences
11H00 11H15	Ihssane Choukri , Mohammed Ouzzif , Khalid Bouragba	Fault Tolerance in SDN Controllers
11H15 11H30	Fatima Zahrae Ait Hamou Aadi1, 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 : BEN ALLAL LAÏLA, AMMARI MOHAMMED

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

Date : 03-01-2021

08h30 To 10h30

Room 3

08H30 08H45	Youssef LAMRANI ALAOUI, Adil El FAKIR, and Mohamed TKIOUAT	Towards new Framework for Modelling Project Selection in Crowdfunding platforms
08H45 09H00	Firdaous Khemliche , Hiba Chougrad , Youness Idrissi Khamliche , Abdessamad El Boushaki , Safae El Haj Ben Ali	A Stock Trading Strategy Based On Deep Reinforcement Learning
09H00 09H15	Samir Boukil, Abd Elmajid El Moutaouakkil, Loubna Cherrat, Mostafa Ezziyyani	Deep learning approaches for Arabic sentiment analysis - case study: detection of potential suicide cases
09H15 09H30	Amina Samih, Abderrahim Ghadi, Abdelhadi Fennan	Translational-Randomwalk embeddings-based Recommender Systems: a pragmatic survey
09H30 09H45	Omayma El Majdoubi, Otman Abdoun and Farah Abdoun	Parallel Computing for Improving Optimization Performance of Laminated Composite Structures Application: Thermal Buckling
09H45 10H00	Rachid Fateh, Anouar Darif, and Said Safi	Identification of the linear dynamic parts of wiener model using kernel
10H00 10H15	Rachid Fateh, Anouar Darif, and Said Safi	Kernel and linear adaptive methods for the BRAN channels identification
10H15 10H30	Ahmed Rabhi, Rachida Fissoune, and Hassan Badir	Saving knowledge about sources: An efficient method for querying distributed data
10H30 10H45	Hassan Bousnguar, Lotfi Najdi , Amal Battou	Students' enrollment forecasting based on Deep Learning Algorithms and Statistical Approachs
10H45 11H00	Fatima Zahra Chafi, Youssef Fakhri, and Fatima Zahrae Ait Hamou Aadi	Introduction to Internet of Things' Communication protocols
11H00 11H15	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 : EL KHATIR HAIMOUDI, ABDOUN OTMAN

Date : 03-01-2021

12h30 To 14h30

Room 4

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

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

PARALLEL SESSION 23:

SESSION CHAIRS : AKSASSE BRAHIM, AIT TCHAKOUCHE TAHA

Date : 03-01-2021

12h30 To 14h30

Room 5

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

12H30 12H45	Zineb Ferhat Hamida, Allaoua Refoufi, and Ahlem Drif	Fake news detection methods: A Survey and New Perspectives
12H45 13H00	Rachid Djerbi, Allel Hadjali, Mourad Amad, Rabah Imache, and Mohamed T. Bennai	Social context-based non-overlapping communities' detection model in social networks
13H00 13H15	AbdEssalam Messiaid, Farid Mokhati, Rohallah Benaboud	A Survey on Web Service Reconfiguration
13H15 13H30	Mimoun Lamrini, Hicham Tribak, Mohamed Yassin Chkouri	A New Dimensionality Reduction Approach Applied to the Big Data Visualization
13H30 13H45	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
13H45 14H00	Safae Bouhout, Youness Oubenaalla, El Habib Nfaoui	Comparative study of two parallel algorithm K-Means and DBSCAN Clustering on Spark Platform
14H00 14H15	Hanane ELFAIK, El Habib NFAOUI	Sentiment Analysis in Social Networks Using Convolutional Neural Networks
14H15 14H30	Nassera HABBAT, Houda ANOUN, and Larbi HASSOUNI	Exploration, sentiment Analysis, topic modeling, and visualization of Moroccan Twitter Data
14H30 14H45	Kawtar Najmani, El Habib Benlahmar, Nawal Sael, Ahmed Zellou	Collaborative Filtering Approach: A Review of Recent Research
14H45 15H00	Salima Lamsiyah, Abdelkader El Mahdaouy, Bernard Espinasse, and Said Ouatik El Alaoui	Unsupervised Query-Focused Multi-Document Summarization using uSIF Sentence Embedding Model and Maximal Marginal Relevance Criterion
15H00 15H15	Mohamed Lahjouji, Jamila el Alami and Mustapha Hlyal	Blockchain applications for improving track and trace process on pharmaceutical supply chain
15H15 15H30	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 : QAZDAR AIMAD, MAHDAOUI MUSTAPHA

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

Date : 03-01-2021

12h30 To 14h30

Room 6

12H30 12H45	LASSRI Safae, BENLAHMAR EL Habib, TRAGHA Abderrahim	Web Page Classification based on an Accurate Technique for Key Data Extraction
12H45 13H00	Aziza CHAKIR, Meriyem CHERGUI, Johanes FERNANDES ANDRY	Toward improving Smart Cities by using Big Data and Artificial Intelligence
13H00 13H15	Khaoula Fatnassi, Sahbi Zahaf , and Faiez Gargouri	Comparison of the Response Time between Small data and Big data of the BPIS Datasets Requests
13H15 13H30	M. Khardioui, A. Bamou1, M.D. El ouadghiri, and B. Aghoutane	Control packet-based Intrusion Detection System for the IoT network layer
13H30 13H45	Abderrahim Zannou, Abdelhak Boulaalam , and El Habib Nfaoui	Expedient and Non-expedient Nodes in the Internet of Things
13H45 14H00	Mourade AZROUR	Security Analysis of Nikooghadam et al.'s Authentication Protocol for Cloud-IoT
14H00 14H15	Jihane Jebrane and Saiida Lazaar	Comparison Study of Lightweight Hash Functions for an Authentication Solution on IoT
14H15 14H30	Meryem BENOTMANE, Kaoutar ELHARI	Survey and analysis of IoT Reference Architectures Models and their comparisons
14H30 14H45	Abdelmoula AIT ALLAL, Loubna El Amrani, Abdelfatteh HAIDINE, Khalifa MANSOURI , Mohamed YOUSSEFI	Towards Deployment of UAV's for Autonomous Ships'5G Mobile Communication
14H45 15H00	Youssra EL HAMOUCHI and Saiida LAZAAR	Performance Study of Wavelet Based Intrusion Detection Systems



SESSION CHAIRS : ZIANI AHMED, ZOUADI TARIK

Date : 02-01-2021

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 temperature 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 ELFAZZIKI1	"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 anti phytopathogenic uses.
Chaimae 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 LAILA	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 RAISSOUNI, 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
Hajar Baghdadi, Mohamed Lamhamdi, Karim Rhofir, and Sara Baghdadi	Brighten Buildings Naturally to Boost Immunity and Fight Covid19
EL BAKKALI ASSIA, ZAIR FIRDAOUS, FOURKA MOHAMED	Omnichannel retailing: Literature review and a framework proposal for future research



SESSION CHAIRS : EL MOUSSAOUI SAID, BADDAOUI JALIL

Date : 03-01-2021

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 BRICKS MANUFACTURING

EZZIYYANI Mohammed, HAMDACHE Ahlem, LAKSIBY Ikram, KRIKECH Imad, EGEE-GILABERT Catalina, REQUENA Maria Emilia

Biological control of root-knot nematodes on pepper plants using *Bacillus stearothermophilus* and *Paecilomyces lilacinus* 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

KHAMLICHI 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 Bourekkadi

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

El khachine Douae, LAÏLA EL AJHAR, AHMED EL BAKOURI, MORARECH MOAD, ARGAZ YOUNES, EL KHARRIM Khadija & BELGHYTI DRISS

Energy Valorization Of Sludges From Anaerobic Digestion By The Tamuda Bay WWTP, Tetouan, Morocco

Khawla Moulato, Asma Fakih Lanjri, Mohammed Ammari, Laïla Ben Allal

Application of Life Cycle Assessment (LCA) to Urban Sludge Treatment Techniques for a Comparison Study: A Review

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Zoom's meetings IDs

Monday, DEC 21th 2020	Opening Ceremony 622 180 6909		Webinar Special Panel 1 667 240 1163
Tuesday, DEC 22th 2020	Webinar Special Panel 2 667 240 1163	IBM Webinar 216 222 0432	Tutorial 1 : Summer School 945 1115 0928
Wednesday, Dec 23th 2020	Morocco-China Webinar 1 216 222 0432	Webinar Special Panel 3 667 240 1163	Tutorial 2 : Summer School 945 1115 0928
Thursday, Dec 24th 2020	Morocco-China Webinar 2 216 222 0432	Webinar Special Panel 4 667 240 1163	Tutorial 3 : Summer School 945 1115 0928
Friday, Dec 25th 2020	Morocco-China Webinar 3 216 222 0432	Webinar Special Panel 5 667 240 1163	Tutorial 4 : Summer School 945 1115 0928
Saturday, Dec 26th 2020	Parallel Sessions PS1 : 667 240 1163 PS2 : 622 180 6909 PS3 : 216 222 0432	Plenary Conference 1 622 180 6909	Parallel Sessions PS4 : 667 240 1163 PS5 : 622 180 6909 PS6 : 216 222 0432
Sunday, Dec 27th 2020	Parallel Sessions PS7 : 667 240 1163 PS8 : 622 180 6909 PS9 : 216 222 0432	Plenary Conference 2 622 180 6909	Parallel Sessions PS10 : 667 240 1163 PS11 : 622 180 6909 PS12 : 216 222 0432
Saturday, Jan 02th 2021	Parallel Sessions PS13 : 667 240 1163 PS14 : 622 180 6909 PS15 : 216 222 0432	Plenary Conference 3 622 180 6909	Parallel Sessions PS16 : 667 240 1163 PS17 : 622 180 6909 PS18 : 216 222 0432
Sunday, Jan 03th 2021	Parallel Sessions PS19 : 667 240 1163 PS20 : 622 180 6909 PS21 : 216 222 0432	Plenary Conference 4 622 180 6909	Parallel Sessions PS22 : 667 240 1163 PS23 : 622 180 6909 PS24 : 216 222 0432

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AI2SD International Conference

ABOUT AI2SD'2020

The International Conference on Advanced Intelligent Systems for Sustainable Development applied to Agriculture, Energy, Health, Environment, Industry, and Economy is scheduled to be held 8-11 July 2019, Marrakech, Morocco at Complex Mohammed VI. Will be the best amalgamation of eminent researchers, students and delegates from both academia and industry where you collaborator to have interactive access to emerging technology