

Curriculum Vitae

Etat Civil :

	Nom :	ECH-CHHIBAT
	Prénom :	Moulay El houssine
	Date et lieu de naissance :	01-01-1967, Zagora
	Situation familiale :	Marié, 4 enfants
	Adresse :	295, Les chênes, 13000, Benslimane
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**Professeur d'Enseignement Supérieur Habilité (MCH) et Enseignant chercheur
à l'Ecole Normale Supérieure de l'Enseignement Technique
Mohammedia (ENSETM)
Coordonnateur de la filière d'ingénieurs génie industriel et logistique
Coordonnateur du Master d'université génie industriel et logistique**

Formations :

Diplôme :	Date	Description et lieu d'obtention
Habilitation universitaire à diriger les recherches	Décembre 2020	Spécialité : Génie mécanique, Université Hassan II de Casablanca, Faculté des Sciences Ben M'sik Casablanca.
Doctorat national	Juillet 2018	Doctorat national, Spécialité : génie mécanique, Université Hassan II de Casablanca, Faculté des Sciences et Techniques Mohammedia (FSTM).
Master spécialisé	Juin 2014	Master spécialisée, systèmes d'informations distribués, Université Hassan II Mohammedia, ENSETM.
Agrégation génie mécanique	Juin 1997	Diplôme d'Agrégation en Génie mécanique et productique : ENSET Rabat.
Licence génie mécanique	Juin 1991	Diplôme de l'Ecole Normale Supérieure de l'Enseignement Technique, Fabrication mécanique, ENSET Rabat.
Baccalauréat technique	Juin 1987	Baccalauréat technique, option Fabrication mécanique, Lycée Technique Hassan II, Gueliz Marrakech.

Certifications professionnelles :

Certificat :	Date	Description et lieu d'obtention
CISCO CCNA 2	2 février 2014	ROUTING PROTOCOLS AND CONCEPTS, ENSET Mohammedia.
CISCO CCNA 3	2 février 2014	LAN SWITCHING AND WIRELESS ENSET, Mohammedia.

CISCO CCNA 4	2 février 2014	ACCESSING THE WAN, ENSET Mohammedia.
APC	Avril et mai 1999	Elaboration des programmes par la méthode APC, collège de l'Outaouais Hull CANADA.

Expériences professionnelles :

Professeur de fabrication mécanique au lycée technique Mohamed V Béni-Mellal : Septembre 1991 - Juin 1995.

Préparation de l'agrégation fabrication mécanique à l'ENSET Rabat : Septembre 1995 - Juin 1997.

Enseignant de génie mécanique à l'ENSET Mohammedia : septembre 1997 – à ce jour.

Enseignant vacataire à la Faculté des sciences et techniques Mohammedia 2018- à ce jour.

Encadrements pédagogiques

Niveau	Type	Etablissement
BTS	PFE	ENSET Mohammedia
DUT	PFE	ENSET Mohammedia
Licence professionnelles	PFE	ENSET Mohammedia
Filières d'ingénieurs	PFE, PP, PI	ENSET Mohammedia
Master	PFE	ENSET Mohammedia

Responsabilités pédagogiques :

Sept. 1998 – Sept. 2004	Membre de jury national du BTS Plastiques et composites
Sept .2011-Sept.2014	Membre du Jury de sélection pour l'accès en première année du DUT : Plastiques et composites.
Sept 2012 – Sept 2018	Membre de la commission du concours d'accès en S5 de la licence professionnelle génie mécanique et systèmes automatisés.
Sept 2014	Membre de la commission de sélection d'accès en S1 du Diplôme d'études universitaires professionnelles (DEUP) génie mécanique des systèmes industriels.
Sept.2012- Sept.2016	Membre de la commission du concours d'accès en première année du cycle d'ingénieurs MLI
Juillet 2015- Sept 2017	Coordonnateur de FI-MLI (filiale d'ingénieurs management de la logistique industrielle)
Sept 2017 à ce jour	Coordonnateur de FI-GIL (filiale d'ingénieurs génie industriel et logistique de la logistique)
Juillet 2015 à ce jour	Membre du bureau de département de Génie Mécanique.
2015-2016	Responsable changement de nom de la filiale d'ingénieurs MLI en GIL.
Juillet 2016 à ce jour	Coordonnateur du Master d'université génie industriel et logistique
Septembre 2016- ce jour	Membre de la commission du concours d'accès en première année du cycle d'ingénieurs génie industriel et logistique
Septembre 2016- ce jour	Membre de la commission du concours d'accès en première année du cycle d'ingénieurs génie mécanique et systèmes industriels.

▪ <u>Domaines de Compétences</u>	
	• Robotique industrielle : Conception, modélisation, programmation ABB, Robot studio, commande des robots. • Maintenance industrielle : l'activité de maintenance, politiques de maintenance, outils et méthodes de maintenance, optimiser le plan maintenance préventive, optimiser le plan maintenance corrective, • Fiabilité maintenabilité disponibilité et sécurité des équipements. • Simulation des systèmes industriels : Matlab, LabVIEW, Excel, ... • Travaux pratiques d'atelier mécanique. • Automatique industriel. • Industrie 4.0.
<u>Activité de Recherche</u>	
▪ <u>Axes de recherche :</u>	
	▪ Robotique industrielle ▪ Maintenance industrielle ▪ Energie renouvelable ▪ Matériaux ▪ Transport

Recherches :

ResearchGate: [Moulay El Houssine Ech-Chhibat \(researchgate.net\)](https://www.researchgate.net/profile/Moulay-El-Houssine-Ech-Chhibat)

ORCID: [Moulay El houssine ECH-CHHIBAT \(0000-0002-1979-0634\) - ORCID](https://orcid.org/0000-0002-1979-0634)

Publication journal :

1. Oumaima Bouanani, Sara Sandabad, Hassan Mabchour², Aïssa Benazzouz² and Moulay El Houssine Ech-Chhibat, "High-frequency, regime-aware environmental risk assessment and early warning of marine exhaust gas cleaning systems using real shipboard data", August 2026, Marine Systems & Ocean Technology, <https://doi.org/10.1007/s40868-026-00236-w>.
2. Younes Zidani, Younes Zahrou, Salah Nissabouri, Moulay El Houssine Ech-Chhibat and Khalifa Mansouri, "Impact of using an educational robotics model on students' innovation: the case of a final year class at a technical high school in Morocco", Frontiers in Education, Volume 11 - 2026 DOI: <https://doi.org/10.3389/feduc.2026.1860922>.
3. Zakaria Mighouar , Jihane Melloui, Khalifa Mansouri, Moulay El Houssine Ech-chhibat and Laidi Zahiri, "A systematic review of deep learning based machine vision for quality control in industry 4.0", July 2026, Discover Mechanical Engineering, DOI: 10.1007/s44245-026-00320-w.
4. Mohamed Lamine Soudani, Moulay El Houssine Ech-Chhibat, Salah Nissabouri, "Optimizing predictive maintenance with synthetic data: a case study on ABB IRB 1100 industrial robot", May 2026, Frontiers in Mechanical Engineering, DOI: 10.3389/fmech.2026.1781598.
5. Mohamed Lamine Soudani, Moulay El Houssine Ech-Chhibat, Salah Nissabouri, Mounir El khiate, Mohamed Haidoury, "Automated control of robots in the work zone: a YOLO-Based approach for optimized maintenance", May 2026? Frontiers in Mechanical Engineering 12.DOI: 10.3389/fmech.2026.1806266
6. Jihane Melloui, Mighouar Zakaria, Moulay El Houssine Ech-Chhibat, Laidi Zahiri, "Computational Physics as an Inclusive Didactic Framework for Autistic Students in Higher Science, Technology, Engineering, and Mathematics Education", April 2026, International Journal of Scientific Research and Innovative Studies 5(2):616-625. DOI: 10.63883/ijrsrisjournal.v5i2.767

7. Younes Zidani, Younes Zahrou, Salah Nissabouri, Moulay El Houssine Ech-Chhibat, Khalifa Mansouri, « Hybrid recommender for computer aided design software», April 2026, IAES International Journal of Artificial Intelligence (IJ-AI), DOI: <http://doi.org/10.11591/ijai.v15.i2.pp1931-1946>.
8. Oumaima Bouanani, Sara Sandabad, Hassan Mabchour & Moulay El Houssine Ech-Chhibat, “Evolution of Maritime CO₂ Performance Under the EU MRV Framework (2018–2023): Emission Patterns and a Baseline for Policy Assessment, Emiss. Control Sci. Technol. 12, 4 (2026). <https://doi.org/10.1007/s40825-026-00285-y>.
9. Oumaima Bouanani, Sandabad Sara, Hassan Mabchour, Moulay El Houssine Ech-Chhibat, “data-driven monitoring of scrubber washwater chemistry: a compliance framework for exhaust gas cleaning systems in chemical engineering applications”, Journal of Engineering and Applied Science. 73, 80 (2026).
10. Zineb Znaidi, Moulay El Houssine Ech-Chhibat, Azeddine Khiat, Mounir El Khiate, Hassan Samri, “Maintenance Strategy Selection and Its Impact on the Optimization of Life Cycle Costs in Industrial Systems”, February 2026, Engineering, Technology and Applied Science Research 16(1):32203-32211, DOI: 10.48084/etasr.15087.
11. Oumaima Bouanani a 1, Sara Sandabad a b 1, Hassan Mabchour b c 1, Moulay El Houssine Ech-Chhibat, “Physics-guided machine-learning forecasting and analysis of carbonate changes in the surface Western Mediterranean”, Continental Shelf Research, Volume 298, April 2026, 105652, <https://doi.org/10.1016/j.csr.2026.105652>.
12. Younes Zidani, Younes Zahrou, Salah Nissabouri, Moulay El Houssine Ech-Chhibat, Khalifa Mansouri, “Toward a New Hybrid System for the Prediction of Student Academic Performance”, Volume: 15 | Issue: 6 | Pages: 28603-28612 | December 2025 | <https://doi.org/10.48084/etasr.12563>, Engineering, Technology & Applied Science Research (ETASR) .
13. Oumaima Bouanani, Sara Sandabad, Moulay El Houssine Ech-Chhibat, “ Innovations in Shipbuilding: A Comprehensive Review of Material Selection, Corrosion Management, and Environmental Considerations”, Journal of King Abdulaziz University: Marine Science: Vol. 35: No. 1, Article 6, June 2025. DOI: <https://doi.org/10.64064/1658-4325.1005>.
14. Oumaima Bouanani, Sara Sandabad, Abdelmoula Ait Allal, Moulay El Houssine Ech-Chhibat, « Design and challenges of an autonomous ship alarm monitoring system for enhanced maritime safety”, June 2025, Informatyka Automatyka Pomiary w Gospodarce i Ochronie Środowiska 15(2):70-76 DOI: 10.35784/iapgos.6884.
15. Hicham Ait el Attar, Hassan Samri, Moulay El Houssine Ech-Chhibat, “U-Net for wheel rim contour detection in robotic deburring”, February 2025, IAES International Journal of Artificial Intelligence (IJ-AI) 14(2):1363-1376, DOI: 10.11591/ijai.v14.i2.pp1363-1376.
16. Zineb Znaidi, Moulay El Houssine Ech-Chhibat, Azeddine Khiat, Mounir El Khiate, Hassan Samri , Laila Ait El Maalem, “ Introduction to Predictive Maintenance Application using Machine Learning: The Case of the Injection System of a Diesel Engine”, Engineering, Technology and Applied Science Research, Volume: 15 | Issue:1 | Pages: 20108-20117 | February 2025 | <https://doi.org/10.48084/etasr.9250>.
17. Mohamed Lamine Soudani, Salah Nissabouri, Moulay El Houssine Ech-Chhibat, « Artificial Intelligence for Maintenance and Production Optimization: Applications, Techniques and Challenges”, November 2024, International Review of Mechanical Engineering (IREME), DOI: 10.15866/ireme.v18i11.25151.
18. Mohamed el Jihaoui, Oum El Kheir Abra, Khalifa Mansouri, Moulay El Houssine Ech-Chhibat, “Towards a Literature Review Methodology: A Practical Guide in the Context of Using Artificial Intelligence in Education”, October 2024, International Journal of Engineering Pedagogy (iJEP) 14(7):119–145, DOI: 10.3991/ijep.v14i7.50261.
19. Tarek Bahrar, Hassan Samri, Moulay El Houssine Ech-Chhibat, “NUMERICAL MODELLING OF TRANSIENT LAMINAR FLOW IN A POLYMER PIPE”, August 2024, JP Journal of Heat and Mass Transfer 37(4):471-489, DOI: 10.17654/0973576324033.
20. Abderrahim Bahani, El Houssine Ech-Chhibat, Hassan Samri, Ahmed Lahmar, Laidi Zahiri, Khalifa Mansouri, “An Innovative Approach to Solving the Inverse Dynamics of a Multi-Robot System in a Low-Depth Milling Application”, June 2024, International Review of Mechanical Engineering (IREME) 18(2024), DOI: 10.15866/ireme.v18i3.24134.
21. Abderrahim Bahani, El Houssine Ech-Chhibat, Hassan Samri, Laidi Zahiri, Khalifa Mansouri, “Intelligent Cutting Force Control by a Cooperative Multi-Robot System: Modeling and Simulation in a Milling

- Application”, April 2024, International Journal on Engineering Applications (IREA) 12(2):1-12
DOI: 10.15866/irea.v12i2.23199. CiteScore 3.0, SJR 0.235, SNIP 0.708 (2025).
22. L. Ait El Maalem M.E.H. Ech Chhibat Z. Znaidi, “MAINTENANCE MANAGEMENT BASED ON RELIABILITY ANALYSIS OF WELDING ROBOTS USING SVM”, International Journal on “Technical and Physical Problems of Engineering (IJTPE), December 2023 Issue 57 Volume 15 Number 4 Pages 410-419.
 23. Abderrahim BAHANI, El Houssine ECH-CHHIBAT, Hassan SAMRI, Hicham AIT EL ATTAR Laila AIT MAALEM, “Intelligent controlling the gripping force of an object by two computer-controlled cooperative robots”, Applied Computer Science, vol.19, no.1, pp. 133–151. doi: 10.35784/acs-2023-09. <https://ph.pollub.pl/index.php/acs/article/view/3519>.
 24. Abderrahim Bahani, Moulay El Houssine Ech-Chhibat, Hassan Samri, and Hicham Ait Elattar, “The Inverse Kinematics Evaluation of 6-DOF Robots in Cooperative Tasks Using Virtual Modeling Design and Artificial Intelligence Tools,” International Journal of Mechanical Engineering and Robotics Research, Vol. 12, No. 2, pp. 121-130, March 2023. DOI: 10.18178/ijmerr.12.2.121-130 : <http://www.ijmerr.com/index.php?m=content&c=index&a=show&catid=220&id=1848>.
 25. Abderrahim Bahani, Moulay El Houssine Ech-Chhibat, Hassan Samri, and Hicham Ait Elattar, “Intelligent modeling and simulation of the inverse kinematics redundant 3-dof cooperative using solidworks and matlab/simmechanics”, International Journal on Technical and Physical Problems of Engineering, 2022, 14(1), pp. 78–88: IJTPE-Issue50-Vol14-No1-Mar2022-pp78-88.pdf .
 26. Abderrahim Bahani, Moulay El Houssine Ech-Chhibat, Hassan Samri, and Hicham Ait Elattar, “Cooperation simulation of two 6-axis robots in an additive concrete construction application”. December 2022, International Journal on Technical and Physical Problems of Engineering, 2022, 14(4), pp. 156–162: IJTPE-Issue53-Vol14-No4-Dec2022-pp156-162.pdf,
 27. Laila Ait Elmaalem, Moulay El Houssine Ech-Chhibat, Ouajji Hassan, Performance Improvement by Total Productive Maintenance Implementation: Case of a Cable Company, April 2021, International Review of Mechanical Engineering (IREME) 15(4):197, DOI: 10.15866/ireme.v15i4.20711.
 28. Abderrahim Bahani, Moulay El Houssine Ech-Chhibat, Hassan Samri, and Hicham Ait Elattar, “Inverse dynamics solution based on the Levenberg-Marquardt algorithm for industrial multi-robots’ system in a milling application”. April 2024, Archive of Mechanical Engineering. DOI: 10.15866/irea.v12i2.23199
 29. Abderrahim Bahani, Moulay El Houssine Ech-Chhibat and Hassan Samri, “Intelligent Cutting Force Control by a Cooperative Multi-Robot System: Modeling and Simulation in a Milling Application”; International Journal on Engineering Applications (IREA). ISSN 2281-2881. DOI: 10.15866/irea.v12i2.23199.

Communications indexes SCOPUS:

30. Mohamed Lamine Soudani, Salah Nissabouri, Moulay El Houssine Ech-Chhibat, “Integration of Cameras in Industry for Maintenance and Production Optimization”, May 2026, 6th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET). DOI: 10.1109/IRASET68627.2026.11538799
31. Jihane Melloui, Mighouar Zakaria, Moulay El Houssine Ech-Chhibat, Laidi Zahiri, “Smart Materials for Smart Robots: Multi-Scale Conductivity Modeling in 3D-Printed Polymer Composites”, May 2026, 6th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET).
32. DOI: 10.1109/IRASET68627.2026.11538866
33. Ahmed Lahmar, Abderrahim Bahani, Ech-Chhibat Moulay El Houssine, Khalifa Mansouri, “Activation Functions and Robotic Trajectory Learning”, May 2026, 6th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET). DOI: 10.1109/IRASET68627.2026.11538847
34. El Khiate Mounir; Samri Hassan; Moulay El Houssine Ech-Chhibat; Znaidi Zineb, “Study of the Contribution of Predictive Maintenance for Diesel Engine Reliability Improvement”, Jun 2025, International Conference on Circuit, Systems and Communication (ICCSC), DOI:
35. 10.1109/ICCSC66714.2025.11135347
36. Mohamed Lamine Soudani; Salah Nissabouri; Moulay El Houssine Ech-Chhibat; ...; Idriss Elhirsch, “Industrial Robots and Collaborative Robots: A Comparative Study”, May 2025, 5th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), DOI: 10.1109/IRASET64571.2025.11008132

37. Zidani Younes; Younes Zahrou; Salah Nissabouri; ...; Khalifa Mansouri, « The impact of augmented reality on the understanding of assembly drawings: case study of a gear train” , May 2025, 5th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), Fez, Morocco, DOI: 10.1109/IRASET64571.2025.11008342.
38. Oumaima Jouary; Badreddine Bouabid; Mighouar Zakaria; ...; Laidi Zahiri, “Outlet pressure analysis in an internally pressurized pipeline presenting a leak”, May 2025, 5th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), DOI: 10.1109/IRASET64571.2025.11008154
39. Younes Zidani; Younes Zahrou; Salah Nissabouri; ...; Khalifa Mansouri, « A Mobile Application Based On Augmented Reality for Orthogonal Projection”, Apr 2025, International Conference on Interactive Collaborative Learning, At: Tallinn, Estonia, DOI:
40. 10.1007/978-3-031-83520-9_4
41. M.Lamine Soudani, S.Nissabouri,M.E.Ech-Chhibat,"Maintenance and Production Optimization using artificial intelligence (AI) Tools : A Bibliometric Analysis and Review",International Conference on Innovative Research in Applied Science,Engineering and Technology (IRASET), Morocco, Mai 2024, DOI :10.1109/IRASET60544.2024.10549204.
42. Y.Zidani,Y.Zahrou, S.Nissabouri, M.E.Ech-Chhibat, K.Mansouri, H.Hassnaoui, "A Bibliometric Analysis of Recommender Systems",International Conference on Innovative Research in Applied Science, Engineering and Technology , Morocco, Mai 2024, doi : 10.1109/IRASET60544.2024.10549541.
43. Abderrahim Bahani; El Houssine Ech-Chhibat; Hassan Samri; Laidi Zahiri; Brahim Moudoud, Ahmed Lahmar, “Welding Complex Mechanical Parts: Case Study Using a Multi-Robot System”, May 2024, 4th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), 13 June 2024, DOI: 10.1109/IRASET60544.2024.10549495.
44. Oumaima Bouanani, Moulay El Houssine Ech-Chhibat, Sara Sandabad, A Comprehensive Review of Materials Used In Marine Engineering: Advances, Challenges and Practices , May 2024, 4th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), DOI: 10.1109/IRASET60544.2024.10548224.
45. Tarek Bahrar, Hassan Samri, Moulay El Houssine Ech-Chhibat, Numerical Modeling of Transient Flow in Pipe With Taking Into Account Fluid-Structure Interaction, May 2024, 4th International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), DOI: 10.1109/IRASET60544.2024.10548657.
46. Abdelaziz Ed-Deryouch, Moulay El Houssine Ech-Chhibat, Khalifa Mansouri, “The Inverse Kinematics of 3-DOF Planar Robotic Arm”, December 2023,7th IEEE Congress on Information Science and Technology (CiSt), DOI: 10.1109/CiSt56084.2023.10409923
47. Abdelali Bouras; Samir Hamaci; Moulay El houssine Ech-Chhibat; Hassan Samri; Rafik Absi, On the Dynamic Behavior of Smart Factories Using Petri Nets in the Context of Industry 4.0, 2023 3rd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), 21 June 2023 , DOI: 10.1109/IRASET57153.2023.10153001
48. Zineb Znaidi, Moulay El Houssine Ech-Chhibat, Azeddine KHIAT, Laila AIT El Maalem, “Predictive maintenance project implementation based on data-driven & data mining”, 2023 3rd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), May 2023, DOI: 10.1109/IRASET57153.2023.10152915.
49. Abderrahim Bahani, Moulay El Houssine Ech-Chhibat, Hassan Samri, Hicham Ait el Attar, “Gripping Force Optimization Based on an ANFIS Controller for an Object Manipulated by Two 3-DOF Cooperative Manipulators”, June 2023, 3rd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), DOI: 10.1109/IRASET57153.2023.10152988.
50. Laila Ait Elmaalem, Moulay El Houssine Ech-Chhibat, Abderrahim Bahani, “Reliability study of welding robots”, 2023 3rd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), June 2023 , DOI: 10.1109/IRASET57153.2023.10152972.
51. Hicham Ait el Attar, Moulay El Houssine Ech-Chhibat, Hassan Samri, Abderrahim Bahani, “Inspection of machining defects on mechanical parts using a computer vision system”, March 2022, 2nd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), DOI: 10.1109/IRASET52964.2022.9737789

52. Bahani Abderrahim; Ech-Chhibat My El Houssine; Samri Hassan; Ait Elattar Hicham; Abdelali Bouras, "Intelligent ANFIS controller of two cooperative 3-DOF manipulators: the case of manipulation under non-slip constraints", March 2022, 2nd International Conference on Innovative Research in Applied Science, Engineering and Technology, IRASET 2022. DOI: 10.1109/IRASET52964.2022.9738223

Chapitres dans des livres :

1. Oumaima Bouanani, Sara Sandabad, Hassan Mabchour & Moulay El Houssine Ech-Chhibat, "Optimizing the Environmental Performance of Ships in Response to Geopolitical Challenges in the Red Sea", October 2025, DOI: 10.1007/978-3-031-97670-4_20, n book: Advances in Applied Mechanics IIPublisher: Springer Nature Switzerland, ChamEditors: Zitouni Azari, Khalid El Had, Mohamed Elamine Ait Ali, Abderrahim El Mahi, Ahmed Hammami, Mohamed Haddar
Print ISBN : 978-3-031-97669-8
Online ISBN : 978-3-031-97670-4
2. Oumaima Bouanani, Sara Sandabad, Abdelmoula Ait Allal, Moulay El Houssine Ech-Chhibat," Towards a Concept of an Autonomous Ship Alarms Monitoring System", July 2025, DOI: 10.1007/978-3-031-91334-1_14 In book: International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD 2024) Publisher: Springer Nature Switzerland, Cham Editors: Mostafa Ezziyyani, Janusz Kacprzyk, Valentina Emilia Balas.
Print ISBN: 978-3-031-91333-4
Online ISBN978-3-031-91334-1
3. Younes Zidani, Younes Zahrou, Salah Nissabouri, & Moulay El Houssine Ech-Chhibat, Khalifa Mansouri, "Application of Artificial Intelligence in the Educational Assessment: A Bibliometric Analysis", July 2025 DOI: 10.1007/978-3-031-95326-2_3, In book: Advances in Intelligent Systems and Digital Applications.
Print ISBN : 978-3-031-95325-5
Online ISBN :978-3-031-95326-2