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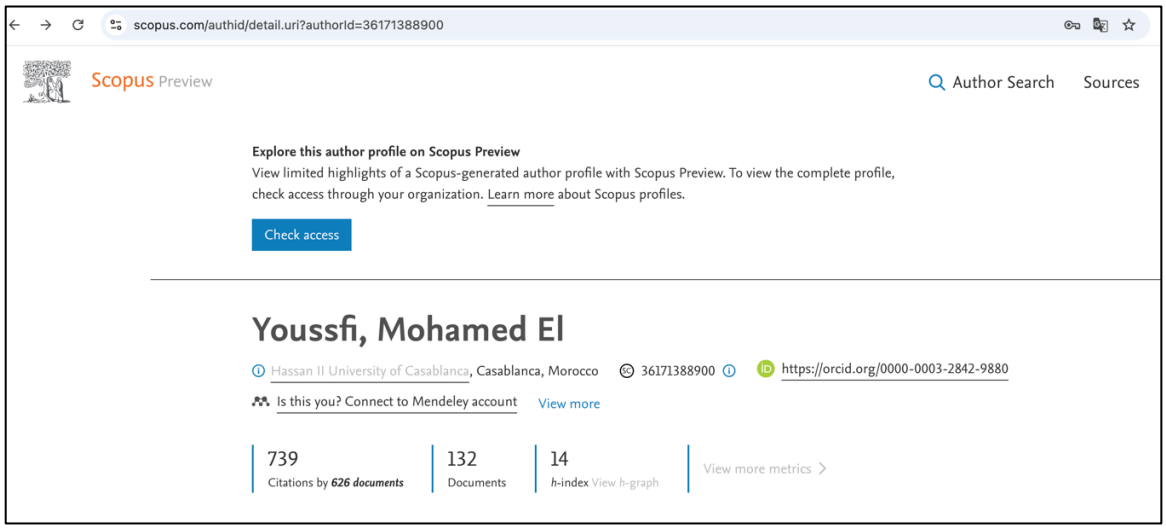

Diplômes :

- **Doctorat d'Etat**, Fac des sciences Rabat (Lab. Signaux Systèmes Distribués et Intelligence Artificielle de ENSET), Spécialité Informatique et Systèmes Parallèles et Distribuées, 2015
- **Doctorat de Troisième cycle**, Fac des sciences Rabat, 1996
- Diplôme des Etudes Approfondies à la fac des sciences de Rabat, 1994
- Diplôme de Professeur Second Cycle de l'ENSET Mohammedia (Bac + 4), 1993

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- Expert CNRST (Centre National pour le Recherche Scientifique et Technique)
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Quelques publications scientifiques :

A. Publication dans des revues internationales indexées

1. El Mehdi Ben Laoula, Omar Elfahim, Marouane El Midaoui, **Mohamed Youssfi**, Omar Bouattane, Traffic violations analysis: Identifying risky areas and common violations, Heliyon,Volume 9, Issue 9, 2023, e19058, ISSN 2405-8440, https://doi.org/10.1016/j.heliyon.2023.e19058. (https://www.sciencedirect.com/science/article/pii/S2405844023062667)
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6. Meryem Hamidi, Abdelhadi Raihani, Mohamed Youssfi, Omar Bouattane, A new modular nanogrid energy management system based on multi-agent architecture, Vol 13, N°1, 2022, DOI: http://doi.org/10.11591/ijpeds.v13.i1.pp178-190
7. Mouttalib, Houda, Tabaa, Mohamed, and **Youssfi, Mohamed**. 'Revolutionizing Engineering Education: Creating a Web-based Teaching Platform for Immersive Learning Experiences'. 1 Jan. 2023 : 151 – 162. DOI: 10.3233/SCS-230012
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9. Abderazzak Ammar, Omar Bouattane, **Mohamed Youssfi,** Automatic cardiac cine MRI segmentation and heart disease classification, Computerized Medical Imaging and Graphics, Volume 88, 2021, 101864, ISSN 0895-6111, https://doi.org/10.1016/j.compmedimag.2021.101864. (https://www.sciencedirect.com/science/article/pii/S0895611121000124)
10. Fatéma Zahra Benchara, **Mohamed Youssfi**, "A New Distributed Type-2 Fuzzy Logic Method for Efficient Data Science Models of Medical Informatics", Advances in Fuzzy Systems, vol. 2020, Article ID 6539123, 10 pages, 2020. https://doi.org/10.1155/2020/6539123
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12. Bousselham A., Bouattane O., **Youssfi M**., Raihani A. (2020) Ischemic Stroke Lesion Segmentation Based on Thermal Analysis Model Using U-Net Fully Convolutional Neural Networks on GPUs. In: Ezziyyani M. (eds) Advanced Intelligent Systems for Sustainable Development (AI2SD'2019). AI2SD 2019. Advances in Intelligent Systems and Computing, vol 1106. Springer, Cham. https://doi.org/10.1007/978-3-030-36677-3_12
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14. Ait Allal A, El Amrani L, Haidine A, Mansouri K, **Youssfi M.** Implementation of 5G Communication Network for a Safe Operation of Autonomous and Conventional Ships. JERA 2020;51:229–48. https://doi.org/10.4028/www.scientific.net/jera.51.229
15. Ait Allal A, Melhaoui Y, Kamil A, Mansouri K, **Youssfi M**. Ship Main Engine Lubricating Oil System's Reliability Analysis by Using Bayesian Network Approach. JERA 2020;48:108–25. https://doi.org/10.4028/www.scientific.net/jera.48.108.
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17. Ait Allal A., Mansouri K., **Youssfi M.**, Qbadou M., El Had K. (2020) Ship Main Engine Waste Heat Recovery for an Efficient Energy Management. In: Ezziyyani M. (eds) Advanced Intelligent Systems for Sustainable Development (AI2SD'2019). AI2SD 2019. Lecture Notes in Electrical Engineering, vol 624. Springer, Cham. https://doi.org/10.1007/978-3-030-36475-5_23
18. Fatéma Zahra Benchara and **Mohamed Youssfi**, "A Mobile Agent Team Works based on Load-Balancing Middleware for Distributed Computing Systems" International Journal of Advanced Computer Science and Applications(IJACSA), 10(12), 2019. http://dx.doi.org/10.14569/IJACSA.2019.0101254
19. Asmaa ROUDANE, **Mohamed YOUSSFI** and Khalifa MANSOURI, "Semantic Micro-Services Model for Vehicle Routing using Ant Colony Optimization" International Journal of Advanced Computer Science and Applications(IJACSA), 10(11), 2019. http://dx.doi.org/10.14569/IJACSA.2019.0101149

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37. Benchara, F.Z.; **Youssfi, M**.; Bouattane, O.; Ouajji, H. A New Scalable, Distributed, Fuzzy C-Means Algorithm-Based Mobile Agents Scheme for HPC: SPMD Application. *Computers* **2016**, *5*, 14. https://doi.org/10.3390/computers5030014
38. **Mohamed Youssfi**, Omar Bouattane, Abdelaziz Daaif, Mohammed Ouadi Bensalah, Load balancing algorithm based on aspect oriented approach for a multi agent distributed system. Contemporary Engineering Sciences, Vol. 9, 2016, no. 4, 145-161, http://dx.doi.org/10.12988/ces.2016.512321

B. Communications dans les conférences internationales indexées

1. L. Aminou, A. Daaif, M. Soulami, A. Chalfaouat and **M. Youssfi**, "Converging human and algorithmic biases in the hiring decision-making process," *2024 International Conference on Intelligent Systems and Computer Vision (ISCV)*, Fez, Morocco, 2024, pp. 1-5, doi: 10.1109/ISCV60512.2024.10620077.
   keywords: {Ethics;Sensitivity;Reviews;Decision making;Knowledge based systems;Training data;Human factors;artificial intelligence;hiring process;decision making;human biases;intelligent systems;algorithmic biases},
2. F. F. Zahrae, A. Es-Sâadia and **Y. Mohamed**, "Artificial Intelligence Implementation in Virtual Learning Environment: An Overview," *2024 International Conference on Intelligent Systems and Computer Vision (ISCV)*, Fez, Morocco, 2024, pp. 1-6, doi: 10.1109/ISCV60512.2024.10620135.
   keywords: {Deep learning;Computer vision;Electronic learning;Pandemics;Reviews;Globalization;Virtual environments;Artificial intelligent;E-Learning;Deep learning;Adaptative learning},
3. K. Oulahyane, **M. Youssfi** and N. Benmoussa, "Embracing Metaverse Education: Transforming the Landscape of Learning," *2024 IEEE 12th International Symposium on Signal, Image, Video and Communications (ISIVC)*, Marrakech, Morocco, 2024, pp. 1-6, doi: 10.1109/ISIVC61350.2024.10577791.
   keywords: {Economics;Ethics;Electronic learning;Metaverse;Reviews;Navigation;Education;Metaverse;virtual worlds;education;immersive learning;virtual classrooms},
4. F. F. Zahrae, A. Es-Sâadia and **Y. Mohamed**, "Recommendation system for E-learners: model-based collaborative filtering approach," *2024 IEEE 12th International Symposium on Signal,*

Image, Video and Communications (ISIVC), Marrakech, Morocco, 2024, pp. 1-6, doi: 10.1109/ISIVC61350.2024.10577774.
keywords: {Adaptation models;Electronic learning;Machine learning algorithms;Adaptive systems;Collaborative filtering;Collaboration;Reinforcement learning;Recommendation system;Collaborative filtering;model-based collaborative filtering;E-Learning;data mining Introduction},

5. Mouttalib, H., Tabaa, **M., Youssfi**, M. (2024). Towards a Platform for Higher Education in Virtual Reality of Engineering Sciences. In: Tabaa, M., Badir, H., Bellatreche, L., Boulmakoul, A., Lbath, A., Monteiro, F. (eds) New Technologies, Artificial Intelligence and Smart Data. INTIS INTIS 2022 2023. Communications in Computer and Information Science, vol 1728. Springer, Cham. https://doi.org/10.1007/978-3-031-47366-1_8
6. Zero-Knowledge Proofs and OAuth 2.0 for Anonymity and Security in Distributed Systems, Ayman Nait Cherif, Youssef Achir, **Mohamed Youssfi**, Mohamed Youssfi, Mouhcine Elgarej and Omar Bouattane, E3S Web of Conf., 469 (2023) 00085, DOI: https://doi.org/10.1051/e3sconf/202346900085
7. O. Elfahim, E. M. B. Laoula, **M. Youssfi**, O. Barakat and M. Mestari, "Reinforcement Learning-based Unpredictable Emergency Events," 2021 Fifth International Conference On Intelligent Computing in Data Sciences (ICDS), Fez, Morocco, 2021, pp. 1-7, doi: 10.1109/ICDS53782.2021.9626720.
8. A. N. Cherif, Y. Achir, **M. Youssfi**, M. Elgarej and O. Bouattane, "Ensuring security and data integrity in Multi Micro-Agent System Middleware with Blockchain Technology," 2023 3rd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), Mohammedia, Morocco, 2023, pp. 1-6, doi: 10.1109/IRASET57153.2023.10152950.
9. E. M. B. Laoula, O. Elfahim, **M. Youssfi** and O. Bouattane, "Drone path optimization in complex environment based on Q-learning algorithm," 2022 International Conference on Intelligent Systems and Computer Vision (ISCV), Fez, Morocco, 2022, pp. 1-7, doi: 10.1109/ISCV54655.2022.9806077.
10. O. Elfahim, E. M. B. Laoula, **M. Youssfi**, O. Barakat and M. Mestari, "Deep Reinforcement Learning Approach for Emergency Response Management," 2022 International Conference on Intelligent Systems and Computer Vision (ISCV), Fez, Morocco, 2022, pp. 1-7, doi: 10.1109/ISCV54655.2022.9806108.
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14. M. Erraki, **M. Youssfi**, **A. Daaif** and O. Bouattane, "NLP Summarization: Abstractive Neural Headline Generation Over A News Articles Corpus," 2020 Fourth International Conference On Intelligent Computing in Data Sciences (ICDS), 2020, pp. 1-6, doi: 10.1109/ICDS50568.2020.9268776.
15. M. Rafik, A. Fentis, T. Khalili, **M. Youssfi** and O. Bouattane, "Learning and Predictive Energy Consumption Model based on LSTM recursive neural networks," 2020 Fourth International

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16. Chris Lytridis, Christos Bazinas, Stamatis Chatzistamatis, Kalliopi Sotiropoulou, Aouatif Najoua, **Mohamed Youssfi**, Omar Bouattane, "Head Pose Estimation Using Lattice Computing Techniques," 2020 International Conference on Software, Telecommunications and Computer Networks (SoftCOM), 2020, pp. 1-5, doi: 10.23919/SoftCOM50211.2020.9238315.
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18. **M. YOUSSFI**, O. BOUATTANE, K. Vassilis and G. Papakostas, "Generic distributed polymorphic learning model for a community of heterogeneous cyber physical social robots in MAS Environment and GPU Architecture," 2020 International Conference on Intelligent Systems and Computer Vision (ISCV), 2020, pp. 1-7, doi: 10.1109/ISCV49265.2020.9204226.
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20. Noureddine Ait Ali, Bouchaib Cherradi, Ahmed El Abbassi, Omar Bouattane, **Mohamed Youssfi**, Parallel Implementation and Performance Evaluation of some Supervised Clustering Algorithms for MRI Images Segmentation, Proceedings of the 4th International Conference on Big Data and Internet of ThingsOctober 2019 Article No.: 69Pages 1–7, https://doi.org/10.1145/3372938.3373007
21. Abderazzak Ammar, Omar Bouattane, **Mohammed Youssfi**, Image segmentation with local active contours on graphics processing units, Proceedings of the 4th International Conference on Smart City ApplicationsOctober 2019 Article No.: 90Pages 1–8, https://doi.org/10.1145/3368756.3369077
22. Y. Hajoui, O. Bouattane, **M. Youssfi** and E. Illoussamen, "Application model of tasks scheduling problem in distributed systems solving problems of road traffic planning in smart cities," 2019 Third International Conference on Intelligent Computing in Data Sciences (ICDS), 2019, pp. 1-7, doi: 10.1109/ICDS47004.2019.8942310.
23. S. M. Snineh, O. Bouattane, **M. Youssfi** and A. Daaif, "Towards a multi-agents model for errors detection and correction in big data flows," 2019 Third International Conference on Intelligent Computing in Data Sciences (ICDS), 2019, pp. 1-5, doi: 10.1109/ICDS47004.2019.8942297.
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25. S. CHOKRI, S. BAROUD, S. BELHAOUS, M. KHOUIL, **M. Youssfi** and M. Mestari, "Impact of communication volume on the maximum speedup in Parallel computing based on graph partitioning," 2019 Third International Conference on Intelligent Computing in Data Sciences (ICDS), 2019, pp. 1-6, doi: 10.1109/ICDS47004.2019.8942349.
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27. A. ALLAL, K. MANSOURI, **M. YOUSSFI** and M. QBADOU, "Reliable and cost-effective communication at high seas, for a safe operation of autonomous ship," 2018 6th International Conference on Wireless Networks and Mobile Communications (WINCOM), 2018, pp. 1-8, doi: 10.1109/WINCOM.2018.8629594.

28. Chougdali S., Mansouri K., **Youssfi M**., Balouki Y. (2019) New Real Time Method for Air Traffic Control Based on the Blocking Area. In: Mizera-Pietraszko J., Pichappan P., Mohamed L. (eds) Lecture Notes in Real-Time Intelligent Systems. RTIS 2017. Advances in Intelligent Systems and Computing, vol 756. Springer, Cham. https://doi.org/10.1007/978-3-319-91337-7_30
29. N. El Abid Amrani, **M. Youssfi** and O. E. K. Abra, "Semantic interoperability between heterogeneous multi-agent systems based on Deep Learning," 2018 6th International Conference on Multimedia Computing and Systems (ICMCS), 2018, pp. 1-6, doi: 10.1109/ICMCS.2018.8525921.
30. F. E. Ezzrhari, H. Bensag, **M. Youssfi**, O. Bouattane and O. E. K. Abra, "Towards a New Micro Agents Middleware for Massively Distributed Systems," *2018 6th International Conference on Multimedia Computing and Systems (ICMCS)*, 2018, pp. 1-6, doi: 10.1109/ICMCS.2018.8525960.
31. S. M. Snineh, **M. YOUSSFI**, O. BOUATTANE, A. Daaif and O. E. K. ABRA, "Real-time management model for frequent Big Data errors : Automatic Clean Repository For Big Data (ACR)," 2018 6th International Conference on Multimedia Computing and Systems (ICMCS), 2018, pp. 1-6, doi: 10.1109/ICMCS.2018.8525920.
32. M. Magri, A. Raihani, A. E. Magri, A. E. Fadili and **M. E. Youssfi**, "Aerodynamic design and 3D analysis of wind turbine rotor," 2018 Renewable Energies, Power Systems & Green Inclusive Economy (REPS-GIE), 2018, pp. 1-6, doi: 10.1109/REPSGIE.2018.8488829.
33. A. Allal, K. Mansouri, **M. Youssfi** and M. Qbadou, "Toward energy saving and environmental protection by implementation of autonomous ship," 2018 19th IEEE Mediterranean Electrotechnical Conference (MELECON), 2018, pp. 177-180, doi: 10.1109/MELCON.2018.8379089.
34. A. Allal, K. Mansouri, **M. Youssfi** and M. Qbadou, "Toward a review of innovative solutions in the ship design and performance management for energy-saving and environmental protection," 2018 19th IEEE Mediterranean Electrotechnical Conference (MELECON), 2018, pp. 115-118, doi: 10.1109/MELCON.2018.8379078.
35. Bousselham, O. Bouattane, **M. Youssfi** and A. Raihani, "Thermal influence of brain tumor on MRI images with anisotropic properties," 2018 4th International Conference on Optimization and Applications (ICOA), 2018, pp. 1-5, doi: 10.1109/ICOA.2018.8370545.
36. Samadi, E. F. Hanaa, M. Qbadou**, M. Youssfi** and F. Akef, "A syntactic and semantic multi-agent based question answering system for collaborative e-learning," 2018 4th International Conference on Optimization and Applications (ICOA), 2018, pp. 1-4, doi: 10.1109/ICOA.2018.8370588.
37. Bousselham, O. Bouattane, **M. Youssfi** and A. Raihani, "Thermal effect analysis of brain tumor on simulated T1-weighted MRI images," 2018 International Conference on Intelligent Systems and Computer Vision (ISCV), 2018, pp. 1-6, doi: 10.1109/ISACV.2018.8354083.
38. A. Allal, K. Mansouri, **M. Youssfi** and M. Qbadou, "Toward a reliable main engine lubricating oil system for a safe operation of autonomous ship," 2017 2nd International Conference on System Reliability and Safety (ICSRS), 2017, pp. 391-399, doi: 10.1109/ICSRS.2017.8272854.
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40. Serrar O., el Kheir Abra O., **Youssfi M**., Tamtaoui A. (2018) Robust Video Coding Based on Perceptual Unequal Protection. In: Noreddine G., Kacprzyk J. (eds) International Conference on Information Technology and Communication Systems. ITCS 2017. Advances in Intelligent Systems and Computing, vol 640. Springer, Cham. https://doi.org/10.1007/978-3-319-64719-7_29
41. N. A. Ali, B. Cherradi, A. El Abbassi, O. Bouattane and **M. Youssfi**, "New parallel hybrid implementation of bias correction fuzzy C-means algorithm," 2017 International Conference on Advanced Technologies for Signal and Image Processing (ATSIP), 2017, pp. 1-6, doi: 10.1109/ATSIP.2017.8075519.

42. Daaif, O. Bouattane and **M. Youssfi**, "An efficient multi-agent computationnal model for massively distribution of independent and heterogeneous tasks," 2017 Intelligent Systems and Computer Vision (ISCV), 2017, pp. 1-7, doi: 10.1109/ISACV.2017.8054914.
43. H. Younes, O. Bouattane, **M. Youssfi** and E. Illoussamen, "New load balancing framework based on mobile AGENT and ant-colony optimization technique," 2017 Intelligent Systems and Computer Vision (ISCV), 2017, pp. 1-6, doi: 10.1109/ISACV.2017.8054961.
44. H. Fakhi, O. Bouattane, **M. Youssfi** and O. Hassan, "New optimized GPU version of the k-means algorithm for large-sized image segmentation," 2017 Intelligent Systems and Computer Vision (ISCV), 2017, pp. 1-6, doi: 10.1109/ISACV.2017.8054924.
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56. Soumia CHOKRI, Sohaib BAROUD, Safa BELHAOUS, Meryem KHOUIL, **Mohammed El Youssfi**, **Mohammed Mestari**, "Impact of communication volume on the maximum speedup in Parallel computing based on graph partitioning", *Intelligent Computing in Data Sciences (ICDS) 2019 Third International Conference on*, pp. 1-6, 2019.
57. S. Chokri, S. Baroud, S. Belhaous, M. Bentaleb, M. Mestari and **M. El Youssfi**, "Heuristics for dynamic load balancing in parallel computing," *2018 4th International Conference on Optimization and Applications (ICOA)*, 2018, pp. 1-5, doi: 10.1109/ICOA.2018.8370587.

C. Chapitres d'ouvrages pour la période 2016-2020

1. Bousselham A., Bouattane O., **Youssfi M**., Raihani A. (2019) An Efficient Level Set Speed Function Based on Temperature Changes for Brain Tumor Segmentation. In: Khoukhi F., Bahaj M., Ezziyyani M. (eds) Smart Data and Computational Intelligence. AIT2S 2018. Lecture Notes in Networks and Systems, vol 66. Springer, Cham. https://doi.org/10.1007/978-3-030-11914-0_13
2. Ait Allal A., Mansouri K**., Youssfi M**., Qbadou M. (2019) Ship Operational Measures Implementation's Impact on Energy-Saving and GHG Emission. In: Ezziyyani M. (eds) Advanced Intelligent Systems for Sustainable Development (AI2SD'2018). AI2SD 2018. Advances in Intelligent Systems and Computing, vol 912. Springer, Cham. https://doi.org/10.1007/978-3-030-12065-8_28

3. Daaif, A., Bouattane, O., **Youssfi, M**., Snineh, S.M. An Efficient Traffic Monitoring Model Using a Stream Processing Platform Based on Smart Highways Events Generator (2019) Advances in Intelligent Systems and Computing, 756, pp. 35-44. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047365109&doi=10.1007%2f978-3-319-91337-7_4&partnerID=40&md5=04d4a6ac9504c098e0380dda7bf77be6. DOI: 10.1007/978-3-319-91337-7_4

4. **Daaif Abdelaziz**, Omar Bouattane, **Youssfi Mohamed**, Sidi Mohamed Snineh, "An Efficient Traffic Monitoring Model Using a Stream Processing Platform Based on Smart Highways Events Generator", Lecture Notes in Real-Time Intelligent Systems Smart Data and Computational Intelligence, Springer, Janvier 2019, Indexes : Scopus, Springer, https://link.springer.com/chapter/10.1007/978-3-319-91337-7_4
5. Abdelmajid Bousselham, Omar Bouattane, **Mohamed Youssfi** Abdelhadi Raihani, "An Efficient Level Set Speed Function Based on Temperature Changes for Brain Tumor Segmentation", DOI: 10.1007/978-3-030-11914-0_13, February 2019, https://link.springer.com/book/10.1007%2F978-3-030-11914-0
6. Sallami Chougdali, Khalifa Mansouri, **Youssfi Mohamed**, Youssef Balouki, "New Real Time Method for Air Traffic Control Based on the Blocking Area", Lecture Notes in Real-Time Intelligent Systems, Springer DOI: 10.1007/978-3-319-91337-7_30, January 2019, Scopus, https://link.springer.com/chapter/10.1007/978-3-319-91337-7_30
7. Elgarej Mouhcine, Khalifa Mansouri, **Youssfi Mohamed**, "Intelligent Vehicle Routing System Using VANET Strategy Combined with a Distributed Ant Colony Optimization: Methods and Protocols", Springer DOI: 10.1007/978-3-030-11914-0_25, January 2019, Scopus, https://link.springer.com/chapter/10.1007/978-3-030-11914-0_25
8. Abdelmoula Ait Allal, Khalifa Mansouri, **Mohamed Youssfi**, Mohammed Qbadou, "Toward a Study of Environmental Impact of Shipping Industry and Proposal of Alternative Solutions", Advanced Intelligent Systems for Sustainable Development (AI2SD'2018), Springer DOI: 10.1007/978-3-030-11881-5_21, January 2019, Scopus, https://link.springer.com/chapter/10.1007/978-3-030-11881-5_21
9. Abdelmoula Ait Allal, Khalifa Mansouri, **Mohamed Youssfi**, Mohammed Qbadou, "Ship Operational Measures Implementation's Impact on Energy-Saving and GHG Emission: Vol 2: Advanced Intelligent Systems Applied to Energy", Advanced Intelligent Systems for Sustainable

Development (AI2SD'2018), Springer DOI: 10.1007/978-3-030-11881-5_21, January 2019, Scopus, https://link.springer.com/chapter/10.1007/978-3-030-12065-8_28

10. Abdelmajid Bousselham, Omar Bouattane, **Mohamed Youssfi**, Abdelhadi Raihani, "Improved brain tumor segmentation in MRI images based on thermal analysis model using U-Net and GPUs", Hindwi DOI: 10.1155/2019/1758948, July 2019, Scopus, https://www.hindawi.com/journals/ijbi/2019/1758948/
11. Ouafae Serrar, Oum el Kheir Abra, **Mohamed Youssfi**, Ahmed Tamtaoui, "Robust Video Coding Based on Perceptual Unequal Protection", International Conference on Information Technology and Communication Systems, Springer DOI: 10.1007/978-3-319-64719-7_29, January 2018, Scopus, https://link.springer.com/chapter/10.1007/978-3-319-64719-7_29

- **Prix de recherche :**

Deuxième Prix de la Première édition du concours du « Grand prix pour l'invention et la recherche en science et technologie » organisé par le ministère de l'éducation nationale, de l'enseignement supérieur de la formation des cadres et de la recherche scientifique, le 15 Mai 2008 par le thème **« Parallel Re-configurable Mesh Computer Emulator "P.Prog.Lab: Parallel Programming Laboratory" ».**

D. Cinq dernières thèses dirigées qui ont été soutenues :

N°	Titre	Doctorant	Directeur	Date Soutenance
1	Distributed Artificial Intelligence Models for Smart Environments Based on Deep Reinforcement Learning: Application in Enhancing Public Security and Emergency Services Management	El Mehdi BEN LAOULA	YOUSSFI Mohamed	20/04/2024
2	Modèles de correction des erreurs dans un environnement Big Data basés sur l'Intelligence Artificielle Distribuée	Sidi Mohamed SNINEH	YOUSSFI Mohamed	18/02/2022
3	Models of High-Performance Computing Middleware based on Micro-Agents and Massively Distributed Artificial Intelligence	Fatima Ezzahra EZZRHARI	YOUSSFI Mohamed	24/09/2022
4	Modèles d'interopérabilité des middlewares multi-agents basés sur l'intelligence artificielle distribuée	EL ABID AMRANI Noureddine	YOUSSFI Mohamed	19/02/2022
5	Fraud prediction and trading models in financial markets based on artificial intelligence	Bouzgarne Itri	YOUSSFI Mohamed	23/07/2022
6	Contribution à l'élaboration de modèles de renforcement de la segmentation des lésions en IRM cérébrale basés sur l'approche Bio-thermique et l'apprentissage Profond sur une Architecture Massivement Parallèle GPU	BOUSSELHAM Abdelmajid	YOUSSFI Mohamed	26/12/2020
7	Modèles de Machines Virtuelles Massivement Parallèles et Distribuées, Basées sur des Agents Mobiles et des Micro-services	Benchara Fatéma zahra	Mohamed YOUSSFI	05/01/2018
8	Contribution à l'élaboration de nouveaux modèles de traitements en temps réel massivement distribués basés sur les systèmes multi-agents	Daaif Abdelaziz	Mohamed YOUSSFI	03/ 03/2018
9	Optimisation du trafic routier basé sur des modèles distribués à base d'agents embarqués utilisant les technologies des objets connectés (Thèse en Cotutelle, Université Franche Conté)	Sabbani IMAD	Mohamed YOUSSFI	1/07/2019

10	Contribution au Développement de Modèles d'Equilibrage de Charges par Approche Orientée Aspect et Basés sur l'Hybridation des Méthodes Métaheuristiques et les Algorithmes d'Apprentissage par Renforcement	HAJOUI Youness	Mohamed YOUSSFI	20/07/2019
11	Middleware de calcul parallèle et distribué pour système embarqué basé sur une grille de carte à puce	BENSAG Hassna	YOUSSFI Mohamed	13/12/2019
12	Contribution au développement de modèles de sélection et de composition de services Web sémantiques basés sur une approche multi-agents.	ESSAYAH AHMED		14/12/2019
13	Contributions au Développement de Nouveaux Modèles de Calcul Massivement Parallèle basés sur un Système Multi Agents et une Architecture de GPUs Distribués	FAKHI Hicham	Mohamed YOUSSFI	05/10/2019
14	Mise en œuvre d'une machine parallèle à base de GPU en vue de détection et de localisation des frontières d'une tumeur dans des images IRM cérébrales 3D	AITALI Noureddine	YOUSSFI MOHAMED	28/09/2019
15	« Contribution au développement de modèles temps réel de gestion du trafic routier, basés sur les systèmes multi-agents	ROUDANE Asmaa	YOUSSFI Mohamed	
16	Parallélisation d'un algorithme d'optimisation par colonies de fourmis pour la résolution d'un problème de gestion du trafic routier	ELGAREJ Mouhcine	YOUSSFI Mohamed	

E. Thèses en cours

	Doctorant	Titre	Type Inscription	Directeur	Co-directeur
1	AYMAN NAIT CHERIF	Nouveaux Modèles d'identités numériques basés sur la Blockchain et l'Intelligence Artificielle. Applications aux institutions financières	4ème inscription	MOHAMED.YOUSSFI	MAHA.SOULAMI
2	MANAL FADLI	Apprentissage profond et classification : application au domaine de la santé	3ème inscription	MOHAMED.YOUSSFI	ZAKARIAE.EN-NAIMANI
3	HOUDA MOUTTALIB	Contribution to the development of a Symbiotic and immersive Intelligent System based on virtual and augmented reality, IoT, and Artificial Intelligence: Application in a Metaverse teaching platform	3ème inscription	MOHAMED.YOUSSFI	
4	LATIFA EL MADANI	Modèles d'Intelligence Artificielle appliqués à la cyber sécurité	2ème inscription	MOHAMED.YOUSSFI	NEZHA.BENMOUSSA
5	AMINE BEN KHOUYA	Deep Multi-Agent Reinforcement Learning For Stochastic Decision Making	3ème inscription	MOHAMED.YOUSSFI	OMAR.BOUATTANE
6	REDOUANE FARIHANE	Modèles de prédiction des indicateurs du trading dans les Marchés Financiers basés sur	3ème inscription	MOHAMED.YOUSSFI	SOUAD AHRIZ

	Doctorant	Titre	Type Inscription	Directeur	Co-directeur
		l'intelligence artificielle et les systèmes multi agents : Application à la prédiction des transactions financières			
7	MOHAMED BENNIS	Développement de modèles d'IA générative appliqués au domaine de la santé	2ème inscription	MOHAMED.YOUSSFI	SARA RETAL
8	KAOUTAR OULAHYANE	E-learning dans le Metaverse : Exploration des Environnements Éducatifs Immersifs et de l'Intégration Technologique	3ème inscription	MOHAMED.YOUSSFI	NEZHA BENMOUSSA
9	OMAR ELFAHIM	Modèles de Deep reinforcment Learning appliqués au domaine de la santé	5ème inscription	MOHAMED.YOUSSFI	MOHAMMED MESTARI

Quelques Projets de Recherche :

- Projet Européen H2020 : **Cy**ber-Physical **S**ystems for **PE**dagogical Rehabilitation in Special **Ed**ucation (https://cordis.europa.eu/project/id/777720)
- Projet CNRST : Système intelligent Mobile de suivi de la pandémie COVID19 : Automatisation et Optimisation du processus de contrôle de la distanciation sociale pendant et après la période de confinement.
- Projet Professionnel : Reconnaissance Optiques des manuscrits Arabes (Actes de naissance) avec FINASHORE au Profit du Ministère de l'Intérieur de l'état Marocain

Certifications Professionnelles récentes :

- MIT-IDSS : DATA SCIENCE AND MACHINE LEARNING: MAKING DATA-DRIVEN DECISIONS, https://olympus1.mygreatlearning.com/certificate/DIISWPSV
- Generative AI for Business with Azure OpenAI
- IBM: Application Security Analyst Mastery Award
- IBM: Mobile Application Developer Academic Certificate

Expérience Professionnelle :

- Enseignant Chercheur Permanant, Spécialité Informatique, Ingénierie Logicielle, Systèmes Parallèles et Distribués, Big Data et Cloud Computing et Intelligence Artificielle, à l'ENSET, Université Hassan II de Casablanca (Depuis 1993)
- Directeur du Laboratoire de recherche : Informatique Intelligence Artificielle et Cyber sécurité
- Expert CNRST (Centre National pour le Recherche Scientifique et Technique)
- Expert ANEAQ (Agence Nationale d'Évaluation et d'Assurance Qualité de l'Enseignement Supérieur et de la Recherche)
- Expert Association Professionnelle R&D
- Expert d'évaluation des projets de recherche et des filières de l'Université Hassan II de Casablanca
- Membre du conseil d'établissement ENSET (Depuis 2010)
- Membre du conseil de l'université Hassan II de Casablanca (Depuis 2013)
- Responsable de la filière d'ingénieur d'état et Master : Ingénierie Informatique, Big data et Cloud Computing à l'ENSET

Profiles :

- Chaine Youtube : https://www.youtube.com/mohamedYoussfi
- LinkedIn : https://www.linkedin.com/in/mohamed-youssfi-3ab0811b
- Scopus (Recherche) : https://www.scopus.com/authid/detail.uri?authorId=36171388900

Expériences Relative à la formation :

- **Formations Académiques :**
  - ENSET MOHAMMEDIA : Enseignant Chercheur Permanant, depuis 1993,
    - Filières formées :
      - Master : Systèmes d'Information Distribués (SID)
      - Filière d'Ingénieur : Génie du Logiciel et des Systèmes Informatiques Distribués. (GLSID)
      - Filière d'Ingénieur : Ingénierie Informatique, Big Data et Cloud Computing
    - Modules assurés : Référence
      - Technologie Web, Technologie XML,
      - POO java,
      - Développement d'applications Mobiles (Android, IONIC et Flutter)
      - Architecture Web J2EE (Servlet, JSP, JSTL, MVC, Spring Framework)
      - Frameworks J2EE (Hibernate, Spring, Struts, JSF, EJB)
      - UML, Design patterns, Ingénierie Multimédia
      - Développement Frontend Web Angular, React
      - Bases de données, Middlewares,
      - Technologies de distribution, Architectures orientée services,
      - Systèmes Multi agents, Intelligences Artificielle Distribuée
      - Architectures Micro services
      - Traitement Parallèle Distribués en Big Data
      - Ingénierie des Infrastructures Cloud
      - DevOps
      - Systèmes Parallèles et Distribués
      - Sécurité des applications Web Mobiles et Distribuées
  - Intervenant dans d'autres formations de Master délocalisés des universités françaises :
    - MASTER MIAGE Spécialité Systèmes d'informations distribuées de l'université de NANCY
    - MASTER MIAGE de l'université de TOULOUSE.
    - MASTER IGSI Ingénierie des Systèmes d'informations de l'université de TOULOUSE
    - MASTER ECOMMERCE de l'université de Bourgogne
    - MASTER Télécom et réseaux de l'université de Savoie.
    - MASTER CREMASI de l'ENSA Lyon

- **Quelques Formations professionnelle :**
  - Banque Populaire Centrale : Formateur et Consultant chez l'équipe Systèmes d'Information de la Banque Populaire centrale dans les domaines suivant : UML, Java, JEE, XML, SOA, EJB, industrialisation du Génie Logiciel période, Architecutes Micro-services, Sécurité des Architectures Micro-services, Event Driven Architecture
  - Haute Autorité de la Communication Audiovisuelle (HACA) : Formateur et consultant chez l'équipe SI de la HACA sur la technologie Java/JEE

- **Autres expériences :**

  - ENSET Mohammedia (2000-2014):
    - Développement du site web de l'ENSET : http://enset-media.ac.ma/
    - Développement de l'intranet de l'ENSET : http://ent.enset-media.ac.ma
      - Gestion des emplois de temps, Absences …
      - Gestion des charges horaires des enseignants
      - Gestion du parc informatique
      - Gestion électronique des documents
    - Membre du conseil d'établissement (ENSET)
    - Membre du conseil d'Université Hassan II Mohammedia
    - Responsable de stages professionnels des filières SID et GLSID

        - Encadrant des thèses de doctorat dans spécialités : Calcul parallèle et Distribué, Web Sémantique, Systèmes Multi Agents, Big data et Data science
    - Membre de jury de recrutement des Professeurs assistants dans différentes universités nationales (Plusieurs fois)
    - Rapporteur et membre de jury de thèses de doctorat (Plusieurs fois)
    - Rapporteur et membre de jury d'habilitation Universitaire (Plusieurs fois)
    - Société MCI Management (1996-2000):
        - Développeur Multimédia
        - Développement d'un CD-ROM multimédia d'enseignement des mathématiques en langue arabe (IBNOU ZAIDOUN WA RRIADIATE)
        - Développement d'un CD-ROM multimédia d'apprentissage du code de la route en bilingue (arabe et français)
        - Développement des programmes multimédia d'un jeu télévisé « Tariq Assalama », diffusé par la RTM, en partenariat avec Zahra Vision et MCI management.
        - Autres Projets de Sites web et de CD-ROM Multimédia
    - Autres :
        - 1994 , développement d'une application de gestion pour l'entreprise DAR TISSIR
        - 1995, Intervenant dans un séminaire à l'école d'ingénieur INSI de Tunis en Tunisie, Thème : Systèmes réels.
        - 1996, développement d'un logiciel de Conception Assistée par Ordinateur au laboratoire de l'Université de Technologie de Compiègne France.
        - 1998, développement d'un CD-ROM multimédia d'initiation à la technologie au laboratoire multimédia de l'INP Toulouse, France.
        - 2000, développement d'un site web et d'un cd-rom d'initiation à la technologie au laboratoire multimédia de l'INP Toulouse, France.
        - 2002, Mise en place du réseau et des services Internet sous la plate forme LINUX, et développement du site web dynamique de l'ENSET Mohammedia.
        - 2013 : Développement et mise en œuvre d'une application intranet de gestion des charges horaires relatives aux filières et d'aide à la prise des décisions :

Langues :

- Français, Arabe, Anglais

Loisirs :

- Musique, Sport