

# El Habib Nfaoui, Ph.D.

Professor, Department of Computer Science  
LISAC Laboratory  
Faculty of Sciences Dhar El Mahraz, Fez  
Sidi Mohamed Ben Abdellah University, Fez  
PO Box 1796 Fès-Atlas, Zip Code 30003. Fez, Morocco  
☎ +212 6 67 62 80 25  
✉ [elhabib.nfaoui@usmba.ac.ma](mailto:elhabib.nfaoui@usmba.ac.ma)



## Academic Experience

- 2019 – Present **Full Professor**, Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez.
- 2013 – 2019 **Associate Professor**, Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez.
- 2009 – 2013 **Assistant Professor**, Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez.
- Sept. 2012 **Visiting Assistant Professor**, University of Lyon, France
- Dec. 2011 **Research Internship**, DISP Laboratory, University of Lyon, France
- June-July 2010 **Research Internship**, LIESP Laboratory, University of Lyon, France
- 2001 – 2004 **Teaching Assistant**, Faculty of Sciences and Technologies, Errachidia

## Expertise

- Since Sept 2020 ○ Expert at National Center for Scientific and Technical Research (CNRST), Morocco
- Feb-Sept 2021 ○ Expert at Mohammed VI Polytechnic University (UM6P) in the field of R&D and technology transfer, Morocco
- Expert evaluator of Covid-19 research projects, 2020, Hassan II University, Casablanca
- Expert evaluator of research projects, 2016, Moulay Ismail University, Meknes

## Education

- 2013 **HU Diploma (accreditation to supervise research) in Computer Science**, Sidi Mohamed Ben Abdellah University, Fez.  
*Title: Multi-agent system and knowledge engineering: towards intelligent architectures for decision making and semantic information retrieval.*
- 2008 **Ph.D. in Computer Science - "Cotutelle" (doctorate in joint-supervision)-**, Sidi Mohamed Ben Abdellah University, Morocco and University of Lyon, France.  
*Title: An agent-based distributed architecture of decision-making support and simulation for supply chains*
- 2004 **Master of Science (M.Sc.) in Computer Science**, Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez
- 1998 **Bachelor of Science (B.Sc. degree) in Electrical Engineering & Industrial informatics** from Ecole Normale Supérieure de l'Enseignement Technique, ENSET Mohammedia.

## Talks

- Nov 28, 2023 ○ **Large Language Models: Overview & OpenAI API**. Invited Speaker at UM6P NLP Day. University Mohammed VI Polytechnic, Ben Guerir.
- Dec 20, 2023 ○ **Understanding Large Language Models: A Comprehensive Overview, LLM Project Life Cycle & OpenAI API**. Invited Speaker at EUROMED University of Fez.
- Jul 12, 2018 ○ **Web Mining and Social Networks Analysis**. Course Leader, Summer School for Big Data and Datamining Models". July 11-12, 2018. Tangier, Morocco.
- Aug 16, 2016 ○ **Approach for micro posts retrieval in microblogging platforms based on Semantic Web technologies and Social Network Analysis**. Invited Speaker in 2nd Global Summit and Expo on Multimedia & Applications (Multimedia 2016), August 15-16, 2016, London, UK.

---

## Research Interests, Publications

Research Areas NLP, Large Language Models, Web mining and Text mining, Information Retrieval, Machine learning and Deep learning, Semantic Web, Web services, Social networks, and Multi-Agent Systems

- Publications
- **104** journal articles and conference papers, **5** book chapters, **2** co-edited journal special issues, **8** co-edited proceedings, **11** supervised Ph.D. Theses, **4** co-supervised Ph.D. Theses
  - h-index (Scopus) : **12**
  - Scopus: <https://www.scopus.com/authid/detail.uri?authorId=55793822300>
  - Google Scholar: <https://scholar.google.com/citations?hl=en&user=XWiiQh8AAAAJ>
  - ResearchGate: [https://www.researchgate.net/profile/El\\_Habib\\_Nfaoui/research](https://www.researchgate.net/profile/El_Habib_Nfaoui/research)

---

## Services to the scientific community

- Chair and co- founder of IEEE Morocco Section Computational Intelligence Society Chapter
- Co-founder of the International Neural Network Society Morocco regional chapter
- Co-founder of the International Conference on Intelligent Computing in Data Sciences (ICDS2017)
- Co-founder of the International Conference on Intelligent Systems and Computer Vision (ISCV2015)

---

## Supervised Ph.D. theses

- [Supervised Ph.D. theses](#)
- [Co-supervised Ph.D. theses](#)

---

## Publications

- [Edited Journal Special Issues](#)
- [Edited Proceedings](#)
- **Journal articles** (<https://www.scopus.com/authid/detail.uri?authorId=55793822300>)
- **Conference papers** (<https://www.scopus.com/authid/detail.uri?authorId=55793822300>)
- **Book Chapters** (<https://www.scopus.com/authid/detail.uri?authorId=55793822300>)

---

## Teaching

- Recent Lectures
- Master: Large Language Models & Generative AI, NLP, Web mining, Recommender Systems, Information Retrieval, OpenAI APIs, XML and Semantic Web, Web services, UML and Design patterns.
  - Bachelor of Science (B.Sc. degree) in Computer Science: Mobile application development, Web development, Java Programming, Python

## Supervised Ph.D. theses:

Ph.D. thesis title	Former Ph.D. Student	Defense date
<ul style="list-style-type: none"><li>Contributions to Improving Emotion Recognition and Sentiment Analysis From Text Data Using Deep Learning</li></ul>	Hanane Elfaik	25/2/2023
<ul style="list-style-type: none"><li>Adaptive Models for Search and Selection in the IoT Constrained Node Networks Using Clustering Techniques</li></ul>	Soukaina Bouarourou	18/2/2023
<ul style="list-style-type: none"><li>Reputation Computation Models from User-generated Content Using Aspect-Based Sentiment Analysis</li></ul>	Achraf Boumhidi	11/12/2023
<ul style="list-style-type: none"><li>Microblogging Recommender Systems based on Language Representation Learning, Topic Models, and Deep Learning</li></ul>	Brahim Dib	14/5/2022
<ul style="list-style-type: none"><li>Enhancing CV and Job Offer Matching and Classification in IT Recruitment Process Using Ontologies, Fuzzy Logic, and Neural Networks</li></ul>	Amine Habous	26/3/2022
<ul style="list-style-type: none"><li>Learning sentiment and affects from large scale patients' narratives and biomedical documents using Neural Networks and Sentic Computing: COVID-19 Case Study</li></ul>	Hanane Grissette	11/12/2021
<ul style="list-style-type: none"><li>Intelligent Mechanisms for Node Search and Task Offloading in the Internet of Things Networks</li></ul>	Abderrahim Zannou	12/7/2021
<ul style="list-style-type: none"><li>Mining Customers' Opinions for Online Reputation Generation and Visualization in e-Commerce Platforms</li></ul>	Abdessamad Benlahbib	30/03/2021
<ul style="list-style-type: none"><li>Leveraging Language Representation Learning and Semantic Features for Improving Hashtag Recommendation on Microblogging Platforms</li></ul>	Nada Ben-Lhachemi	25/12/2020
<ul style="list-style-type: none"><li>Contributions to Aggregated Search Paradigm Improvement using Deep Learning Techniques</li></ul>	Sanae Achsas	29/12/2020
<ul style="list-style-type: none"><li>Combining Recommendation Techniques with Multi-Agent Systems for enhancing Dynamic Semantic Web Services Selection and Composition: E-GOV and ITIL Incident Management Case Study</li></ul>	Amal Latrache	15/12/2018

## Co-supervised Ph.D. theses:

Ph.D. thesis title	Former Ph.D. Student	Defense date
<ul style="list-style-type: none"><li>Leveraging Semantic and Real-time Features for improving Information Access on Microblogging Platforms</li></ul>	Fahd Kalloubi	30/01/2017
<ul style="list-style-type: none"><li>Médiateur canonique et Framework de matching XML pour une interopérabilité des systèmes d'information hospitaliers</li></ul>	Sanae Mazouz	2/04/2016
<ul style="list-style-type: none"><li>Vers des modèles collaboratifs à base d'agents pour la recherche et la recommandation de l'information vidéo</li></ul>	Yasser El Madani El Alami	19/12/2015

<ul style="list-style-type: none"> <li>Un système d'aide à la décision pour la gestion du cycle de vie des produits (PLM) : une approche à base d'agents</li> </ul>	Abdelhak Boulaalam	8/07/2013
---	--------------------	-----------

## Edited Journal Special Issues:

1. Boumhidi, J., **Nfaoui, E. H.**, Hagra, H., & Vellasco, M. (2021).  
Special issue on recent advances in computational intelligence and cognitive systems (RACICS). Cognitive Systems Research, 70, 63. ISSN: 13890417. PUBLISHER: Elsevier B.V.  
DOI: <https://doi.org/10.1016/j.cogsys.2021.07.011>
2. J. Boumhidi and **E. Nfaoui**. (2016).  
Special Issue on Advanced Computing in Intelligent Systems. International Journal of Intelligent Engineering Informatics (IJIEI), Inderscience Publishers, Vol. 4 No. 3/4, 2016. ISSN (Online) 1758-8723, ISSN (Print) 1758-8715  
<https://www.inderscience.com/info/inarticletoc.php?jcode=ijiei&year=2016&vol=4&issue=3/4>

## Edited Proceedings

1. **Nfaoui, E.H.**, Boumhidi, J., Oubenaalla, Y., Azough, A., Alippi, C.  
(2021) 5th International Conference on Intelligent Computing in Data Sciences, ICDS 2021, . IEEE  
DOI: <https://doi.org/10.1109/ICDS53782.2021.9626717>
2. Oubenaalla, Y., **Nfaoui, E.H.**, Boumhidi, J., Loqman, C., Riffi, J., Kozma, R., Mestari, M., Alippi, C.  
(2020) 4th International Conference on Intelligent Computing in Data Sciences, ICDS 2020, art. no. 9268750, . IEEE  
DOI: <https://doi.org/10.1109/ICDS50568.2020.9268750>
3. Angelov, P., Boumhidi, J., Hagra, H., **Nfaoui, E.H.**, Oubenaalla, Y., Loqman, C., Mestari, M., Mousannif, H.  
(2019) 3rd International Conference on Intelligent Computing in Data Sciences, ICDS 2019, art. no. 8942299, . IEEE  
DOI: <https://doi.org/10.1109/ICDS47004.2019.8942299>
4. Boumhidi, J., Ghanou, Y., Najah, S., **Nfaoui, E.H.**, Oubenaalla, Y., Zahi, A., Zenkour, K.  
Proceedings Of The 2nd International Conference On Intelligent Computing In Data Sciences (2019) Procedia Computer Science, 148, p. 1. Elsevier B.V.  
DOI: <https://doi.org/10.1016/j.procs.2019.01.001>
5. Jaouad BOUMHIDI, Péter ÉRDI, Youssef GHANOU, **El Habib NFAOUI**, Youness OUBENAALLA.  
Proceedings of the First International Conference on Intelligent Computing in Data Sciences, ICDS2017. Volume 127, Pages 1-548 (2018). Procedia Computer Science 1877-0509 © 2018. ISSN: 1877-0509. Elsevier B.V.  
<https://www.sciencedirect.com/journal/procedia-computer-science/vol/127/suppl/C>
6. **Nfaoui, E.H.**, Boumhidi, J.  
(2017) 2017 Intelligent Systems and Computer Vision, ISCV 2017, art. no. 8054995, . IEEE  
DOI: <https://doi.org/10.1109/ISACV.2017.8054995>
7. Lakhrissi, Y., **Nfaoui, E.H.**, Kenzi, A., Bendjenna, H.  
(2016) 2016 International Conference on Information Technology for Organizations Development, IT4OD 2016, art. no. 7479331, . IEEE  
DOI: <https://doi.org/10.1109/IT4OD.2016.7479331>
8. Boumhidi, J., **Nfaoui, E.**  
(2015) 2015 Intelligent Systems and Computer Vision, ISCV 2015, art. no. 7106199, . IEEE  
DOI: <https://doi.org/10.1109/ISACV.2015.7106199>