Najib BEN AOUN

Assistant Professor - Ph.D & H.D.R. in Computer Systems Engineering

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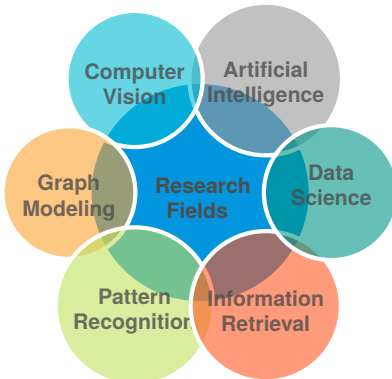najib.benaoun@enetcom.usf.tn

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Web Pages
LinkedIn
ResearchGate
Google Scholar
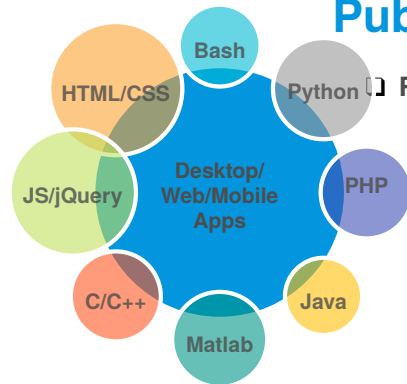Scopus
ORCID
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Personal Skills

Solve Problems
Manage
Innovate
Team Player
Lead
Pioneer
Commu-nicate
Organize

Research Interests

Computer Vision
Artificial Intelligence
Graph Modeling
Research Fields
Data Science
Pattern Recognition
Information Retrieval

Professional Experience

09/15 - Present	**Assistant Professor**	Faculty of Computing and Information (FCI), Al-Baha University, Kingdom of Saudi Arabia.
09/14 - 09/15	**Assistant Professor**	National School of Electronics and Telecommunications of Sfax (ENET'Com), University of Sfax, Tunisia.
09/11 - 09/14	**Permanent Lecturer**	National School of Electronics and Telecommunications of Sfax (ENET'Com), University of Sfax, Tunisia.
09/09 - 09/11	**Contractual/Sessional Lecturer**	Higher Institute of Computer Science and Multimedia of Sfax (ISIMS), University of Sfax, Tunisia.
09/08 - 09/09	**Contractual/Sessional Lecturer**	Faculty of Sciences of Sfax (FSS), University of Sfax, Tunisia.
09/06 - 09/08	**Teaching Assistant**	Faculty of Sciences of Sfax (FSS), University of Sfax, Tunisia.

Education

07/2024 — **University Habilitation degree in Computer Systems Engineering** National School of Engineers of Sfax (ENIS), University of Sfax, Tunisia.

Dissertation: Deep Learning-based Image Analysis Contributions.

02/2014 — **Ph.D degree in Computer Systems Engineering** National School of Engineers of Sfax (ENIS), University of Sfax, Tunisia.

Dissertation: Bag-of-sub-Graph approach based video categorization

06/2008 — **Master's degree in New Technologies of Dedicated Computer Systems** National School of Engineers of Sfax (ENIS), University of Sfax, Tunisia.

Dissertation: Multiresolution Motion Estimation Algorithm for Video Coding

07/2006 — **4-Years degree in Computer Science** Higher Institute of Applied Sciences and Technology of Sousse (ISSATS), University of Sousse, Tunisia.

Programming Skills

Interests

OS Preference

GNU/Linux ★★★★★
MacOS ★★★★★
Windows ★★★★★
Unix ★★★☆☆

Languages

Arabic ★★★★★
French ★★★★★
English ★★★★☆

Publications

Refereed Journal Papers

19. Gasmi, K., **Ben Aoun, N.**, Alsalem K., Ben Ltaifa, I., Alrashdi I., Ben Ammar, L., Mrabet M. and Shehab A., **(2024) Enhanced Brain Tumor Diagnosis Using Combined Deep Learning Models and Weight Selection Technique**, *Frontiers in Neuroinformatics, 18, 1444650. (Impact factor=2.5, Scopus Q2)*

18. Rasool, N., Bhat, J.I., **Ben Aoun, N.**, Alharthi, A., Wani, N.A., Chopra, V. and Anwar, M.S., **(2024) ResMHA-Net: Enhancing Glioma Segmentation and Survival Prediction Using a Novel Deep Learning Framework**, *Computers, Materials & Continua (CMC), 81(1), pp. 888-909. (Impact factor=2, Scopus Q3)*

17. **Ben Aoun, N. (2024) A Review on Automatic Pain Assessment From Facial Information Using Machine Learning**, *Technologies, 12(6), 92. (Impact factor=4.2, Scopus Q1)*

16. Neji, I., **Ben Aoun, N.**, Boujnah, N., and Ejbali, R., **(2024), DenseVit-XGB: A Hybrid Approach for Dates Varieties Identification**, *Neurocomputing, 596 127976, 2024. (Impact factor=5.5, Scopus Q1)*

15. Mzoughui, M.C., **Ben Aoun, N.** and Naouali, S., **(2024), A Review on Kinship Verification From Facial Information**, *The Visual Computer. (Impact factor=3, Scopus Q2)*

14. Akram Bennour, A., **Ben Aoun, N.**, Khalaf, O.I., Ghabban, F., Wong, W.K. and Algburi, S., **(2024), Contribution to Pulmonary Diseases Diagnostic from X-Ray Images using Innovative Deep Learning Models**, *Heliyon, 10(9), e30308. (Impact factor=3.4, Scopus Q1)*

13. Ul Haq, M., Sethi, M.A.J., **Ben Aoun, N.**, Alluhaidan, A.S., Ahmad, S., Farid, Z., **(2024) CapsNet-FR: Capsule Networks for Improved Recognition of Facial Features**, *Computers, Materials & Continua (CMC), 79(2), pp. 2169-2186. (Impact factor=2, Scopus Q3)*

12. Chaibi, N., **Ben Aoun, N.** and Zaied, M., **(2023) Image Super Resolution Boosting using Beta Wavelet**, *Signal, Image and Video Processing Journal. (Impact factor=2, Scopus Q2)*

11. Nhidi, W., **Ben Aoun, N.** and Ejbali, R., **(2023) Deep Learning-Based Parasitic Egg Identification from a Slender-Billed Gull's Nest**, *IEEE ACCESS, vol.11, pp. 37194-37202, doi: 10.1109/ACCESS.2023.3267083. (Impact factor=3.476, Scopus Q1)*

10. Mavakala, A. W., Adoni, W. Y. H., **Ben Aoun, N.**, Nahhal, T., Krichen, M., Alzahrani and M. Y., Kalala, F. M., **(2023), COV19-Dijkstra: A COVID-19 Propagation Model Based on Dijkstra's Algorithm**, *Journal of Computer Science, 19(1), pp. 75-86. (Scopus Q4). https://doi.org/10.3844/jcssp.2023.75.86*

9. Ahmad, S., **Ben Aoun, N.**, Gauhar, A., El Affendi, M.A and Anwar, M.S, **(2023), Multi-Clustered Mathematical Model for Student Cognitive Skills Prediction Optimization**, *IEEE ACCESS, vol.11, pp. -, doi: 10.1109/ACCESS.2023.3285612. (Impact factor=3.476, Scopus Q1)*

8. AlEisa, H.N, Touiti, W., ALHussan, A.A., **Ben Aoun, N.**, Ejbali, R., Zaied, M. and Saadia, A., **(2022), Breast Cancer Classification Using FCN and Beta Wavelet Autoencoder**, *Computational Intelligence and Neuroscience, vol. 2022, Article ID 8044887. (Impact factor=3.12, Scopus Q1)*

7. Ahmad, S., **Ben Aoun, N.**, El Affendi, M.A, Anwar, M.S, Abbas, S. and Abd El Latif, A.A.,**(2022), Optimization of Students' Performance Prediction through an Iterative Model of Frustration Severity**, *Computational Intelligence and Neuroscience, vol. 2022, Article ID 3183492. (Impact factor=3.12, Scopus Q1)*

6. Adoni, W.Y.H, **Ben Aoun, N.**, Nahhal, N., Krichen, M. and Alzahrani, M., **(2022) A Scalable Big Data Framework for Real-Time Traffic Monitoring System** *Journal of Computer Science, 18(9), pp. 801-810. (Scopus Q4).*

5. Brahimi, S., **Ben Aoun, N.**, Ben Amar, C., BENOIT, A., and LAMBERT, P., **(2019) Semantic Segmentation using Reinforced Fully Convolutional DenseNet with Multiscale Kernel**, *Multimedia Tools and Applications, 78(8). (Impact factor=2.313, Scopus Q2).*

4. Brahimi, S., **Ben Aoun, N.** and Ben Amar, C., **(2019) Boosted Convolutional Neural Network for Object Recognition at large scale**, *Neurocomputing, 330, pp. 337-354. (Impact factor=4.438, Scopus Q1).*

3. Brahimi, S., **Ben Aoun, N.**, Ben Amar, C., BENOIT, A., and LAMBERT, P., **(2018) Multiscale Fully Convolutional DenseNet for Semantic Segmentation**, *Journal of WSCG 26(2), pp.104-111. (Scopus Q4).*

2. Mejdoub, M., **Ben Aoun, N.** and Ben Amar, C., **(2015) Bag of frequent subgraphs approach for image classification**, *Intelligent Data Analysis, 19(1), pp. 75-88. (Impact factor=0.772, Scopus Q3).*

1. **Ben Aoun, N.**, Mejdoub, M. and Ben Amar, C., **(2014) Graph-based approach for human action recognition using spatio-temporal features**, *Journal of Visual Communication and Image Representation, 25(2), pp. 329-338. (Impact factor=2.164, Scopus Q1).*

❑ **Refereed Book Chapters**

1. **Ben Aoun, N.**, El'Arbi, M. and, Ben Amar, C., **(2012) Wavelet Transform based motion estimation and compensation for video coding**, *Advances in Wavelet Theory and Their Applications in Engineering, Physics and Technology, ISBN 979-953-307-385-8, InTech, Dumitru Baleanu (Ed.), pp. 23-40.*

❑ **Refereed International Conference Papers (Indexed in IEEE/Scopus/DBLP/Springer)**

12. Bruno, M., Bhatt, C.M., **Ben Aoun, N.**, Malaviya, P. and Mulla, A., **(2024), Deep Learning Techniques for Accurate Classification of Rice Diseases: A Comprehensive Study**, *Intelligent Systems Conference (IntelliSys'2024), Amsterdam, Netherlands, pp. 452-470.*

11. **Ben Aoun, N.**, **(2023), Deep Learning-Based Pain Intensity Estimation From Facial Expressions**, *International Conference on Intelligent Systems Design and Applications (ISDA'23, Olten, Switzerland, pp.484-493. (Core C class)*

10. Neji, I., **Ben Aoun, N.**, Hamza, H. and Ejbali, R., **(2023), Date Varieties Identification Using DenseNet Model with GAN-Based Data Augmentation**, *International Conference on Intelligent Systems Design and Applications (HIS'23), Olten, Switzerland, pp. -. (Core C class)*

9. Nhidi, W., **Ben Aoun, N.** and Ejbali, R., **(2023), Brood Parasitism Identification Using a Deep Learning Model with Mish Activation Function**, *International Conference on Intelligent Systems Design and Applications (ISDA'23), Olten, Switzerland, pp. 136-145. (Core C class)*

8. Nhidi, W., **Ben Aoun, N.** and Ejbali, R., **(2023) Ensemble Machine Learning-Based Egg Parasitism Identification for Endangered Bird Conservation**, *International Conference on Computational Collective Intelligence (ICCCI'23), Springer CCIS series, pp. 364–375, Budapest, Hungary. (Core B class)*

7. Brahimi, S., **Ben Aoun, N.** and Ben Amar, C., **(2018) Improved Very Deep Recurrent Convolutional Neural Network for Object Recognition**, *International Conference on Systems, Man, and Cybernetics (SMC'18), Miyazaki, Japan. (Core B class)*

6. Brahimi, S., **Ben Aoun, N.** and Ben Amar, C., **(2016) Very Deep Recurrent Convolutional Neural Network for Object Recognition**, *International Conference on Machine Vision (ICMV'16), Nice, France. (Core C class)*

5. **Ben Aoun, N.**, Mejdoub, M. and Ben Amar, C., **(2014) Bag of sub-graphs for video event recognition**, *In: the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP'14), pp. 1566-1570, Firenze, Italy. (Core B class)*

4. **Ben Aoun, N.**, Elghazel, H., Hacid, M.S. and Ben Amar, C., **(2011) Graph aggregation based image modeling and indexing for video annotation**, *In: 14th International Conference on Computer Analysis of Images and Patterns (CAIP'11), pp. 324-331, Seville, Spain. (Core B class)*

3. **Ben Aoun, N.**, Elghazel, H. and Ben Amar, C., **(2011) Graph modeling based video event detection**, *In: 7th International Conference on Innovations in Information Technology (IIT'11), pp. 114-117, Abu Dhabi, United Arab Emirates.*

2. Wali, A., **Ben Aoun, N.**, Karray, H., Ben Amar, C. and Alimi, A.M., **(2010) A New System for Event Detection from Video Surveillance Sequences**, *In: 12th International Conference on Advanced Concepts for Intelligent Vision Systems (ACIVS'10), pp. 110-120, Sydney, Australia. (Core B class)*

1. **Ben Aoun, N.**, EL'ARBI, M. and Ben Amar, C., **(2010) Multiresolution motion estimation and compensation for video coding**, *In: 10th IEEE International Conference on Signal Processing (ICSP'10), pp. 1121-1124, Beijing, China.*

Project Funds

2024-2025 **Member of the project " AI for humain health", Number RGP2/254/45**
Funded by King Khaled university, Saudi Arabia

2024-2025 **Member of the project "CapsNet-FR: Capsule Networks for Improved Recognition of Facial Features", Number PNURSP2024R2234** Funded by Princess Nourah bent Abdulraham university, Riyadh, Saudi Arabia

2022-2023 **Member of the project "Breast Cancer Classification Using FCN and Beta Wavelet Autoencoder", Number PNURSP2022R308** Funded by Princess Nourah bent Abdulraham university, Riyadh, Saudi Arabia

2008-2011 **Member of the project " Reconnaissance et Analyse de VIsages (RAVI)", Number 08G1406, between REGIM-Lab of Sfax-Tunisia, CRISTAL Lab of Mannouba-Tunisia and LIRIS Lab in Lyon-France** Funded by the PHC-Utique program

Research Internships

12/2010- 01/2011   **Research internship under the supervision of Prof. Mohand-said HACID et Dr. Haytham ELGHAZEL** Laboratory of Images and Information Systems Technology (LIRIS), Université Claude Bernard Lyon 1 (UCB Lyon 1), University of Lyon , France.

Work Done: **Graph Aggregation Based Image Modeling and Indexing for Video Annotation.**

06/2009- 07/2009   **Research internship under the supervision of Prof. Liming Chen** Laboratory of Images and Information Systems Technology (LIRIS), Ecole Centrale de Lyon (ECL), University of Lyon , France.

Work Done: **Video event detection system based on HMM.**

11/2008- 01/2009   **Research internship under the supervision of Prof. Liming Chen** Laboratory of Images and Information Systems Technology (LIRIS), Ecole Centrale de Lyon (ECL), University of Lyon , France.

Work Done: **Video event detection system prototype**

Presentations

<u>**Oral Presentation**</u>

12/2023	**Ben Aoun, N., Deep Learning-Based Pain Intensity Estimation From Facial Expressions, Online** ISDA'2023
05/2014	**Ben Aoun, N., Mejdoub, M. and Ben Amar, C.,Graph-based video event recognition, Firenze, Italy** ICASSP'2014
08/2011	**Ben Aoun, N., Elghazel, H., Hacid, M.S. and Ben Amar, C.,Graph aggregation based image modeling and indexing for video annotation, Seville, Spain** CAIP'2011
07/2011	**Ben Aoun, N., Elghazel, H. and Ben Amar, C., Graph modeling based video event detection, Abu Dhabi, United Arab Emirates.** IIT'2011
10/2010	**Ben Aoun, N., EL'ARBI, M. and Ben Amar, C., Multiresolution motion estimation and compensation for video coding, Beijing, China** ICSP'2010

Honors & Awards

09/2021	**Effective Participation in the NCAAA Program Accreditation of Computer Science Program** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
12/2020	**Effective Participation in the NCAAA Institutional Accreditation of Albaha university** Al-Baha University, KSA
4/2021	**Certificate of recognition for the professional organization of the "Develop Your Skills" training series offered to Al-Baha university students during the academic year 2020-2021.** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
12/2020	**Effective Participation in the College Activities** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
05/2017	**Effective Participation in the College Activities** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
12/2013	**IEEE Appreciation Award for the contribution as Vice-chair of the IEEE SPS Tunisia Chapter, 2013** IEEE
04/2011	**Best Poster on the Doctoral Consortium (DC'2011), Sousse, Tunisia.** Doctoral Consortium

Professional Development Certifications

02/2024	**Huawei HCIA AI certification training**	Huawei

10/2023 — **Life after publication: How to promote your work for maximum impact**
Elsevier Researcher Academy

10/2023	**How to prepare a proposal for a review article**	Elsevier Researcher Academy

10/2023 — **Rejected manuscripts: Next steps and finding the right fit** — Elsevier
Researcher Academy

10/2023	**How to secure funding - ECR edition**	Elsevier Researcher Academy

10/2023 — **Successful research grant applications – getting it right** — Elsevier Researcher
Academy

10/2023	**Laveraging AI-Powered chatbot**	Al-Baha University
10/2023	**Code Review as an Educational Tool**	Al-Baha University
10/2023	**Generative AI for the Economic Development**	Al-Baha University

9/2023 — **Detecting Image Manipulation: Routines, Tools & Limitations** — Elsevier
Researcher Academy

5/2023	**Academic Accreditation Practitioner**	NCAAA, Saudi Arabia
12/2022	**Building trust and engagement in peer review**	Elsevier Researcher Academy
11/2022	**Becoming a Journal Editor**	Hindawi
10/2022	**How to write for an interdisciplinary audience**	Elsevier Researcher Academy
10/2022	**Using AI to match your abstract to the right journal**	Elsevier Researcher Academy
10/2022	**Systematic reviews 101**	Elsevier Researcher Academy
10/2022	**Social Media for Researchers**	Elsevier Researcher Academy

10/2022 — **Seven strategies for scientists to communicate their research and create
a brand** — Elsevier Researcher Academy

10/2022 — **How to promote your research for maximum impact** — Elsevier Researcher
Academy

10/2022	**How to design effective figures for review articles**	Elsevier Researcher Academy
10/2022	**Conference skills for researchers**	Elsevier Researcher Academy
10/2022	**An editor's guide to writing a review article**	Elsevier Researcher Academy
02/2022	**Using proper manuscript language**	Elsevier Researcher Academy
02/2022	**Introduction to the Certified Peer Reviewer Course**	Elsevier Researcher Academy

02/2022 — **Online training engineering (IFEL)- Pedagogy and technology** — Université
Virtuelle de Tunis

02/2022	**Make your data accessible -It's Not FAIR! Improving Data Publishing Practices in Research**
	Elsevier Researcher Academy

12/2021	**Structuring your article correctly**	Elsevier Researcher Academy

12/2021	**How to prepare a proposal for a review article**	Elsevier Researcher Academy

12/2021	**Implementation of QM Quality Standards in Designing Electronic Courses (First Level)**
	Albaha University

12/2021	**Building Rubrics and their uses**	Albaha University

11/2021	**Skills of using the ENDNOTE program to manage scientific references**
	Albaha University

11/2021	**Teaching strategies and methods for the 21'st century**	Albaha University

11/2021	**New models and methods for students evaluation to improve the learning outcomes**
	Albaha University

11/2021	**Terms and standards for publishing in refereed scientific journals** Albaha University

10/2021	**Preparing the Program Annual Report**	Albaha University

12/2020	**Publishing scientific research in international ISI and Scopus journals**
	Al-Baha University, KSA

12/2020	**The duties of the student and faculty member in academic advising**
	Al-Baha University, KSA

11/2020	**Preparing training packages**	Al-Baha University, KSA

11/2020	**Modern teaching methods and systems**	Al-Baha University, KSA

11/2020	**Scientific Research and Competitive Projects**	Al-Baha University, KSA

11/2020	**How to search inside SpringerNature platform** Saudi Digital Platform (SDL), KSA

11/2020	**Measurement and evaluation in the academic environment** Al-Baha University, KSA

11/2020	**Intellectual rights for university professor**	Al-Baha University, KSA

11/2020	**Guidance and counseling theories and their field of applications** Al-Baha University, KSA

10/2020	**Optimal employment of evaluation tools in the Blackboard e-learning system**
	Saudi Education Ministry, KSA

10/2020	**Building and Using Rubrics for Course Assessment** Al-Baha University, KSA

| 10/2020 | **Teaching strategies during Covid-19 epidemic** | Al-Baha University, KSA |

| 10/2020 | **Faculty member right and responsabilities** | Al-Baha University, KSA |

10/2020 **Academic Guidance and counseling according to quality standards**
Al-Baha University, KSA

| 06/2020 | **Programming with Python** | Coursera |

| 05/2020 | **How Google does Machine Learning** | Coursera |

| 02/2020 | **Academic quality is the responsability of All** | Al-Baha University, KSA |

| 12/2019 | **Accreditation and Quality** | NCAAA, KSA |

11/2019 **Analyzing data and questionnaires and using their results to ensure quality and continuous improvement** NCAAA, KSA

| 05/2019 | **Academic Programs Quality** | Al-Baha University, KSA |

| 08/2018 | **English Certification IELTS** | British Council, Tunis |

| 01/2018 | **BlackBoard E-Learning Management system** | Al-Baha University |

| 05-06/2017 | **Mobile Application Development.** | ALECSO |

| 04/2014 | **Linux: LPIC-1 (modules 101 and 102).** | Linux Professional Institute |

04/2014 **Suse Linux Enterprise 11: Novell Certified Linux Administrator.** Linux Professional Institute

Associative and University Contributions

2023-2024 **IT department quality Committee member** College of Computer Science and Information Technology (CCS&IT), Al-Baha University

2022-2023 **IT department quality Coordinator and College quality unit member** College of Computer Science and Information Technology (CCS&IT), Al-Baha University

2019-2023 **Chair of the IT department Final Year Projects Committee** College of Computer Science and Information Technology (CCS&IT), Al-Baha University

2015-2023 **Participate in building and annually reviewing the IT department Study Plan, computer science and IT courses as well as the Artificial Intelligence Master study plan and courses** College of Computer Science and Information Technology (CCS&IT), Al-Baha University

2015-2024 **Academic advisor for a group of students in IT department** College of Computer Science and Information Technology (CCS&IT), Al-Baha University

2019-2022 **Member of the Learning Resources College Committee (Chair during 2019-2020)** College of Computer Science and Information Technology (CCS&IT), Al-Baha University

2021-2022 **Quality committee member in the IT department** College of Computer Science and Information Technology (CCS&IT), Al-Baha University

2019-2021	**College Coordinator and Secretary for the Accreditation, Quality and Self-Study Committee** *(we have gotten the NCAAA accreditation at the Institutional/University level in 2021/2022)* College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2020-2021	**Coordinator of the initiative "Develop Your Skills" which is a series of training sessions targeting all the university students** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2017-2020	**Member of the Programs and Study Plans Committee** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2017-2018	**Member of the Higher Education and Scientific Research Unit** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2017-2019	**Member of the NCAAA Accreditation Committee** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2017-2019	**Coordinator for the College Final Year Projects** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2017-2019	**Member of the Development and Quality Unit** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2015-2018	**College Coordinator for the International Accreditation (ABET)** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2016-2017	**Member of the College Website Committee** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2015-2016	**Member of the Faculty Member Promotion Committee** College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2014-2016	**Secretary and Treasurer of the IEEE Signal Processing Society Tunisia Chapter** IEEE SPS Tunisia Chapter
2013-2014	**Vice-Chair of the IEEE Signal Processing Society Tunisia Chapter** IEEE SPS Tunisia Chapter
2011-2012	**Chair of the IEEE SPS ENIS Student Chapter** IEEE SPS ENIS Student Chapter
2010	**Treasurer of the IEEE SPS ENIS Student Chapter** IEEE SPS ENIS Student Chapter

Teaching

During 2014-2015, I have taught the following courses for RITEL master program students in the National School of Electronics and Telecommunications of Sfax (ENET'Com):

➡ **Image and speech processing**

During 2006-Present, I have taught the following courses for CS, CE and IT students:

➡ **Intelligent Systems**

➡ **Multimedia documents indexing and research techniques**

➡ **Image coding and processing**

➡ **Systems Administration under Linux**

➡ **Linux Certification preparation (LPIC-1)**

➡ **Operating Systems**

➡ **Software Engineering**

➡ **Introduction to Programming**

➡ **Programming with C language**

➡ **Object-oriented Programming (Java)**

➡ **System Design with the UML methodology**

➡ **Data Visualization**

➡ **Computer Organization and Architecture**

➡ **Introduction to computing**

➡ **Preparation for the certification on Computer Sciences and Internet (C2I)**

➡ **Information Systems Project Management**

➡ **Discrete Structures**

Mentoring Experience

2023-2026   **Co-Mentor of the Ph.D student, Mohamed Mzoughui, to obtain the PhD in Electronics, Information and Communication Technologies (ETIC). Thesis Title: "Deep Learning-Based Kinship Verification from Facial Information classification and segmentation using deep learning approaches"** Tunisia Polytechnic School

2023-2026   **Co-Mentor of the Ph.D student, Nesrine Chaibi, to obtain the PhD in Computer Systems Engineering. Thesis Title: "Image super resolution boosting using beta wavelet"** National School of Engineers of Gabes.

2022-2025   **Co-Mentor of the Ph.D student, Ines Neji, to obtain the PhD in Computer Systems Engineering. Thesis Title: "Image classification and segmentation using deep learning approaches"** National School of Engineers of Gabes.

2020-2023	**Co-Mentor of the Ph.D student, Wiem Nhidi, to obtain the PhD in Computer Science. Thesis Title: "Intelligent approach for the identification and recognition of parasitic eggs in a nest"** National School of Engineers of Gabes.
09/2022-12/2022	**Mentor for M.Sc student, Ali Trad to obtain the M.Sc in Artificial Intelligence. Thesis Title: "D3S: Driver Drowsiness Detection System using Artificial Intelligence techniques"** College of Computer Science and Information Technology (CCS&IT), Al-Baha University, KSA.
2015-2019	**Co-Mentor of the Ph.D student, Sourour Brahimi, to obtain the PhD in Computer Systems Engineering. Thesis Title: "Image classification and segmentation using deep learning approaches"** National School of Engineers of Sfax - Research Groups in Intelligent Machines (REGIM-Lab).
2015-2024	**Mentor for 15 graduation projects (63 students) to obtain the Bachelor Degree in Computer Science** Faculty of Computing and Information (FCI), Al-Baha University, KSA.
2010-2011	**Mentor for 7 graduation projects (14 students) to obtain the Bachelor Degree in Computer Science** Higher Institute of Computer Science and Multimedia of Sfax (ISIMS), University of Sfax, Tunisia.
2008-2009	**Mentor for 3 graduation projects (7 students) to obtain the Bachelor Degree in Computer Science** Faculty of Sciences of Sfax (FSS), University of Sfax, Tunisia

Professional Memberships

2007-Present	**REsearch Groups in Intelligent Machines (REGIM-Lab).**	Researcher
2009-Present	**Institute of Electric and Electronic Engineering (IEEE).**	Member
2009-Present	**IEEE Signal Processing Society (SPS).**	Member
2014-Present	**International Association for Pattern Recognition (IAPR).**	Member
2009-Present	**Association for Computing Machinery (ACM).**	Member
2014-Present	**Machine Intelligence Research Labs (MIRLabs).**	Member
2012-Present	**IEEE SPS Image Video and Multidimensional Signal Processing (IVMSP).** TC affiliate member	
2012-Present	**IEEE SPS Machine Learning for Signal Processing (MLSP)** TC affiliate member	
2012-Present	**IEEE SPS Multimedia Signal Processing (MMSP)** TC affiliate member	

Journal Editorial Board Memberships

As listed below, I have served as journal academic and guest associate editor for several high-level journals.

2024-Present	**Frontiers in Neuroinformatics (Scopus Q1, Impact Factor=3.5) and Frontiers in Computational Neuroscience (Scopus Q3, Impact Factor=3.2)** Guest Associate Editor
	Research Topic: Neuro-detection: Advancements in Pattern Detection and Segmentation Techniques in Neuroscience. (www.frontiersin.org/research-topics/63238).
2023-Present	**PLOS ONE Journal (Scopus Q1, Impact Factor=3.752)** Academic Editor
2022-Present	**Journal of Computer Science (Scopus Q4)** Academic Editor
2022-2023	**Hindawi Journal of Computational Intelligence and Neuroscience (Scopus Q1, Impact Factor=3.12)** Academic Editor

Scientific Events and International Conferences Organizat

I have been a member in different scientific events and international conferences as mentioned below.

2024	**International Workshop on Modern Technologies for Natural Disasters Management (NADIM'2024) organized within the AICCSA'2024 conference.** Organizing Committee Member and PC member
2024	**International Conference on Intelligent Systems and Pattern Recognition (ISPR'2024)** Steering Committee Member, Publication Chair and PC member
2023	**International Conferences on Intelligent Systems Design and Applications (ISDA'2023)** Publicity Committee Member
2023	**International Conferences on Hybrid Intelligent Systems (HIS'2023)** Publicity Committee Member
2023	**International Conferences on Information assurance and security (IAS'2023)** Publicity Committee Member
2023	**International Conferences on Soft Computing and Pattern Recognition (SoCPaR'2023)** Publicity Committee Member
2023	**World Congress on Nature and Biologically Inspired Computing (NaBIC'2023)** Publicity Committee Member
2023	**World Congress on Information and Communication Technologies (WICT'2023)** Publicity Committee Member
2023	**International Conferences on Innovations inBio-Inspired Computing and Applications (IBICA'2023)** Publicity Committee Member
2023	**International Conference on Intelligent Systems and Pattern Recognition (ISPR'2023)** Steering Committee Member, Publication Chair and PC member
2022	**International Conference on Innovations inBio-Inspired Computing and Applications (IBICA'2022)** Publicity Committee Member
2022	**International Conference on Challenges & Opportunities for Innovation in India (COII'2022)** Advisory board member

Technical Committee Membership

Since 2010, I have served as program/technical committee member and reviewer for many international journals and conferences including (but not only) the followings:

➡ **International Journals**

2022-2024	**MDPI Journals: Imaging, Applied Sciences, Sensors, Remote Sensing, etc.**	Regular Reviewer
2024	**Elsevier- Computers in Human Behavior (Impact factor = 9.9)**	Reviewer
2023	**Service Oriented Computing and Applicationsr (Impact factor = 1.3)** Reviewer	
2023	**International Journal of Data Science and Analyticsr (Impact factor = 2.4)**	Reviewer
2023	**Transactions on Asian and Low-Resource Language Information Processing(Impact factor = 2)**	Reviewer
2023	**Tsinghua Science and Technology (Impact factor = 6.6)**	Reviewer
2023	**Sustainable Energy Technologies and Assessments (Impact factor = 8)** Reviewer	
2022	**CMES-Computer Modeling in Engineering & Sciences (Impact factor = 1.593)**	Reviewer
2022	**Computer Communications (Impact factor =6)**	Reviewer
2022	**Computational Intelligence and neuroscienc (Impact factor = 3.12)** Reviewer	
2022	**Frontiers in Psychology (Impact factor = 3.8)**	Reviewer
2022	**IET Electrical Systems in Transportation (Impact factor = 2.3)**	Reviewer
2022	**Education and Information Technologies (Impact factor = 5.5)**	Reviewer
2017-2019	**IEEE Transactions on MultiMedia (Impact factor = 2.536).**	Reviewer
2015	**The Journal of Pattern Recognition (Impact factor = 2.584).**	Reviewer
2015	**The Journal of Visual Communication and Image Representation (Impact Factor= 1.361).**	Reviewer
2013-2014	**The Journal of Machine Vision and Applications (Impact factor = 1.103).** Reviewer	
2013	**The Journal of Frontiers of Information Technology & Electronic Engineering (Impact factor =0.297).**	Reviewer

➡ **International Conferences**

2024	**International Conference on Advanced Communication and Intelligent Systems (ICACIS).** Technical Program Committee member
2023-2024	**International Conference on Intelligent Systems and Pattern Recognition (ISPR).** Technical Committee member
2022-2023	**International Conferences on Intelligent Systems Design and Applications (ISDA).** Technical Committee member
2022-2023	**International Conferences on Hybrid Intelligent Systems (HIS).** Technical Committee member
2022-2023	**International Conference on Innovations inBio-Inspired Computing and Applications (IBICA).** Technical Committee member
2022	**International Conference on Computational Collective Intelligence (ICCCI).** Senior Program Committee member
2021-2022	**International Conference of Smart Systems and Emerging Technologies (SMARTTECH).** Technical committee member
2012-2022	**IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP).** Reviewer
2016	**IEEE International Conference on Visual Communications and Image Processing (VCIP).** Reviewer
2015-2016	**The European Signal Processing Conference (EUSIPCO).** Reviewer
2015	**IEEE International Workshop on Multimedia Signal Processing (MMSP).** Technical committee member
2015	**IEEE International Conference on Multimedia and Expo (ICME)** Reviewer
2015	**IEEE Symposium on Computers & Informatics (ISCI).** Reviewer
2013-2015	**IEEE International Workshop on Multimedia Signal Processing (MMSP).** Reviewer
2014	**International Conference on Soft Computing and Pattern Recognition (SoCPaR).** Program Committee member
2012	**Mediterranean Electrotechnical Conference (MELECON).** Reviewer
2011	**IEEE Conference on Computer Applications & Industrial Electronics (ICCAIE).** Reviewer
2010	**International Conference on Signal Processing (ICSP), Beijing, China.** Chairman session

References

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2. **Ass.Prof. Ridha Ejbali, Associate Professor in computer science at the Faculty of Sciences, University of Gabes, Gabes, Tunisia. (ridha_ejbali@ieee.org)**

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