



Nejib BEN AOUN

PhD in Computer Systems Engineering

Experience

- 09/15 - Now **Assistant Professor** College of Computer Science and Information Technology (CCS&IT), 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 **Lecturer** National School of Electronics and Telecommunications of Sfax (ENET'Com), University of Sfax, Tunisia.
- 09/09 - 09/11 **Lecturer** Higher Institute of Computer Science and Multimedia of Sfax (ISIMS), University of Sfax, Tunisia.
- 09/08 - 09/09 **Lecturer** Faculty of Sciences of Sfax (FSS), University of Sfax, Tunisia.
- 09/07 - 09/08 **Researcher Student** Faculty of Sciences of Sfax (FSS), University of Sfax, Tunisia.
- 09/06 - 09/07 **Temporary Assistant** Faculty of Sciences of Sfax (FSS), University of Sfax, Tunisia.

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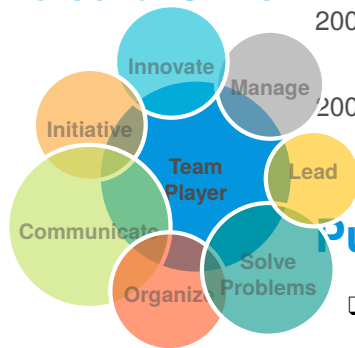
Web Pages

Personnal Webpage
 LinkedIn
 ResearchGate
 Google Scholar
 Scopus
 ORCID
 DBLP
 MS Academic Search
 ReseracherID

Education

- 2014 - Now **Post-doctoral Studies of Computer Systems Engineering** Research Groups in Intelligent Machines (REGIM-Lab), University of Sfax, Tunisia.
- 2008 - 2014 **PhD Degree of Computer Systems Engineering** National School of Engineers of Sfax (ENIS), University of Sfax, Tunisia.
- 2006 - 2008 **Master Degree of New Technologies of Dedicated Computer Systems** National School of Engineers of Sfax (ENIS), University of Sfax, Tunisia.
- 2002 - 2006 **4-years degree of Computer Science** Higher Institute of Applied Sciences and Technology of Sousse (ISSATS), University of Sousse, Tunisia.

Personal Skills

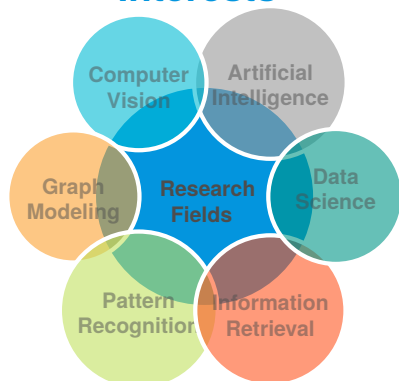


Publications

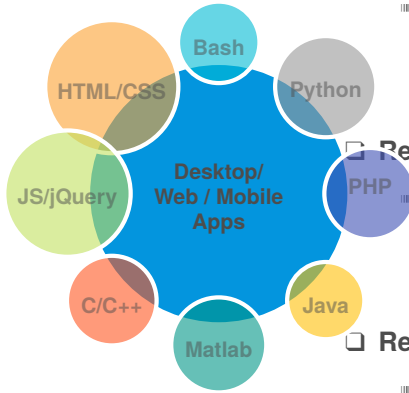
Refereed Journal Papers (with Impact Factor)

- ➡ Brahimi, S., **Ben Aoun, N.**, Ben Amar, C., BENOIT, A., and LAMBERT, P., (2019) **Semantic Segmentation using Reinforced Fully Convolutional DenseNet with Multiscale Kernel**, *Journal of Multimedia Tools and Applications*, 78 (8), (Impact factor=1.541).
- ➡ Brahimi, S., **Ben Aoun, N.** and Ben Amar, C., (2018) **Boosted Convolutional Neural Network for Object Recognition at large scale**, *Journal of Neurocomputing*, 330, pp. 337-354 (Impact factor=3.241).
- ➡ Mejdoub, M., **Ben Aoun, N.** and Ben Amar, C., (2015) **Bag of frequent sub-graphs approach for image classification**, *Intelligent Data Analysis*, 19 (1), pp. 75-88. (Impact factor=0.772).

Research Interests



Programming Skills



- **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).

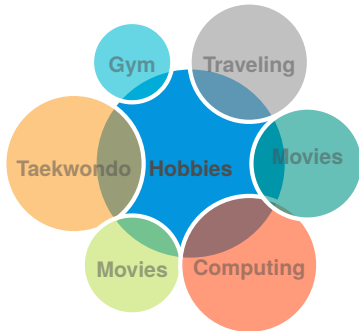
☐ Refereed Book Chapters

- **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)

- 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.
- Brahimi, S., **Ben Aoun, N.**, Ben Amar, C., BENOIT, A., and LAMBERT, P., (2018) **Multiscale Fully Convolutional DenseNet for Semantic Segmentation**, *International Conferences in Central Europe on Computer Graphics, Visualization and Computer Vision (WSCG'18)*, Plzen, Czech Republic.
- 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.
- **Ben Aoun, N.,** Mejdoub, M. and Ben Amar, C., (2014) **Graph-based video event recognition**, In: *the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP'14)*, pp. 1566-1570, Firenze, Italy.
- **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.
- **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.
- 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.
- **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.

Interests



OS Preference

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

Languages

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

Project Funds

- 2017-2018 **Principal Investigator of the project " D3S: Driver Drowsiness Detection System", Number 56/1438** [Funded by Al-Baha University](#)
- 2008-2011 **Member of the project " Reconnaissance et Analyse de Visages (RAVI)", Number 08G1406** [Funded by the PHC-Utique program](#)

Research Internship

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

Teaching

During 2014-2015, I have taught the following courses for CS, CE and IT students:

- **Image and speech processing**

During 2006-2019, 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**
- **Database Management**
- **Data Visualization**
- **Computer Organization and Architecture**
- **Introduction to computing**
- **Certification on Computer Sciences and Internet (C2I)**
- **Information Systems Project Management**
- **Discrete Structures**

Supervision

- 2015-2019 **Co-Supervision of a PhD student. Thesis Title: "Image classification and segmentation using deep learning approaches"** [National School of Engineers of Sfax - Research Groups in Intelligent Machines \(REGIM-Lab\).](#)
- 2015-2019 **Supervision of 5 graduation projects (18 students) to obtain the Bachelor Degree in Computer Science** [College of Computer Science and Information Technology \(CCS&IT\), Al-Baha University, KSA.](#)
- 2010-2011 **Supervision of 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 **Supervision of 3 graduation projects (7 students) to obtain the Bachelor Degree in Computer Science** [Faculty of Sciences of Sfax \(FSS\), University of Sfax, Tunisia](#)

Honors & Awards

- 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](#)

Certifications

- 08/2018 **English Certification IELTS** [British Council, Tunis](#)
- 01/2018 **BlackBoard Learn system** [Al-Baha University](#)
- 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](#)

Memberships in Professional Organizations

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

Associative and University Activities

2017-2019	Member of the NCAAA Accreditation Committee	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
2017-2019	Member of the Programs and Study Plans Committee	College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2017-2019	Coordinator of the Final Year Projects	College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2015-2018	Coordinator of the ABET Accreditation 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
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 Higher Education Committee	College of Computer Science and Information Technology (CCS&IT), Al-Baha University

2015-2016	Member of the Promotion Committee	College of Computer Science and Information Technology (CCS&IT), Al-Baha University
2015-2016	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

Program/Technical committee member and Reviewer

I have served as a Program and Technical committee member as well as reviewer for the following international Journals and Conferences.

2017	IEEE Transactions on MultiMedia (Impact factor = 2.536).	Reviewer
2012-2017	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	The Journal of Pattern Recognition (Impact factor = 2.584).	Reviewer
2015	The Journal of Visual Communication and Image Representation (Impact Factor= 1.361).	Reviewer
2015	IEEE International Conference on Multimedia and Expo (ICME)	Reviewer
2015	IEEE Symposium on Computers & Informatics (ISCI 2012).	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
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

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

- Prof. Chokri BEN AMAR , Professor in computer science at the College of Computers and Information Technology, Taif University, KSA, (Chokri.benamar@ieee.org)
- Dr. Bedine Karim, Assistant Professor in computer science at the College of Computer Science and Information Technology, Albaha University, KSA, (bedkarim76@yahoo.com)

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Nejib BEN AOUN