

Personal information **Sourour Njah**



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Date of birth: 01/09/1976

Nationality Tunisian

Profession: Assistant Professor teaching at High School of Commerce of Sfax, Tunisia
 Postdoctoral researcher at the REsearch Groups in Intelligent Machines Laboratory (ReGIM-Lab.) At the National School of Engineers of Sfax (ENIS), University of Sfax. (since 2013)

Work experience

- 2019-2023 **Head of Management Information Technology Department**
 High School of Commerce of Sfax (ESC), Tunisia, Route de L'aéroport Km 4, BP 1081, Casier N° 87, Sfax 3018
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- 2014-2023 **Assistant Professor**
 High School of Commerce of Sfax (ESC), Tunisia, Route de L'aéroport Km 4, BP 1081, Casier N° 87, Sfax 3018
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<http://www.escs.rnu.tn/>
- 2011-2014 **Assistant**
 High School of Commerce of Sfax (ESC), Tunisia, Route de L'aéroport Km 4, BP 1081, Casier N° 87, Sfax 3018
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<http://www.escs.rnu.tn/>
- 2009-2011 Principal teacher at High Institute of Technological Studies of Sfax (ISET)
 1999-2009 Teacher at High Institute of Technological Studies of Sfax (ISET)

Education and training

- 2004-2013 **Doctorat**
 Computing system engineering, National School of Engineering of Sfax
- 2011 **C2i**
 Certificate in computer science and Internet
- 2000-2003 **DEA**
 Computer science " information systems and new technology "
 Faculty of the economics science and management of Sfax
- 1998-1999 **CAPES**
 Preparation and obtaining CAPES (Certificate of Professional Competence in Secondary Education)
- 1994-1998 **Mastery**
 Computer science applied in management
 Faculty of the economics science and management of Sfax
- 1987-1994 **Baccalaureate (Mathematics)**
 Lycée 18 Janvier, Sfax, Tunisie
 Algorithmics; Basic software; General computer science; Environment and development of data bases; Matlab; Operating systems; Certificate in computer science and Internet (C2i);
 Programmation.

Personal skills

Mother tongue	Arabic				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2

Communication skills ▪ good communication skills gained through my experience as teacher

Job-related skills ▪ Good control of the professional skills of teachings

Computer skills ▪ good command of Microsoft Office™ tools, Matlab, C, C#, VB.net

Driving licence ▪ B

Additional information**Publications**

- Dhieb T., Boubaker H., Ouarda W., **Njah S.**, Ben Ayed M., and Alimi M.A, Deep bidirectional long short-term memory for online multilingual writer identification based on an extended Beta-elliptic model and fuzzy elementary perceptual codes, Multimedia Tools and Applications Journals (Journal Q1, Impact Factor: 2.313), **2021**.
DOI: 10.1007/s11042-020-10412-8
- Dhieb T., **Njah S.**, Boubaker H., Ouarda W., Ben Ayed M., and Alimi M.A, "Towards a novel biometric system for forensic document examination", Computers & Security Journal, Vol 97, P 101973 (Journal Q1, Impact Factor: 3.579), **2020**.
DOI: 10.1016/j.cose.2020.101973
- Akouaydi H., **Njah S.**, Ouarda W., Samet A., Zaied M. and Alimi M.A., Convolutional Neural Networks for Online Arabic Characters Recognition with Beta-Elliptic Knowledge Domain, ICDARW, **2019**.
DOI: 10.1109/ICDARW.2019.50114
- Dhieb T., **Njah S.**, Boubaker H., Ouarda W., Ben Ayed M., and Alimi M.A, An Online Writer Identification System based on Beta-Elliptic Model and Fuzzy Elementary Perceptual Codes, CoRR abs/1804.05661, **2018**. **arXiv** preprint arXiv:1804.05661
- Akouaydi H., Abdelhedi S., **Njah S.**, Zaied M., and Alimi M.A, Decision Trees Based on Perceptual Codes for On-Line Arabic, Character Recognition, 1st International Workshop on Arabic Script Analysis and Recognition, ASAR, pp. 153-157, **2017**.
DOI: 10.1109/ASAR.2017.8067778
- Akouaydi H., **Njah S.** and Alimi M.A, Android Application for handwriting segmentation using PerTOHS theory, The 9th International Conference on Machine Vision., 18-20 Novembre **2016**. **DOI:** 10.1117/12.2269059
- **Njah S.**, Bezine H. and Alimi M.A., "On-line Arabic Handwriting Segmentation via Perceptual Codes: Application to MAYASTROUN database", International Journal "Transactions on Systems, Signals & Devices", TSSD, vol. 8, N° 3, pp. 327-344, **2013**.
- **Njah S.**, Bezine H. and Alimi M.A., "Linguistic Interpretation for On-line Handwriting using PerTOHS Theory", 16th International Graphonomics Society, IGS, Nara, Japan, pp. 175-178, **2013**.
- **Njah S.**, Ltaief M., Bezine H. and Alimi M.A., "The PerTOHS Theory for On-Line Handwriting Segmentation", International Journal of Computer Science Issues, IJCSI, vol. 9, Issue 5, N° 3, pp. 142-151, **2012**.

- Ltaief M., **Njah S.**, Bezine H., Alimi M.A., "Genetic Algorithms for Perceptual Codes Extraction", International Journal of Intelligent Learning Systems and Applications, JILSA, vol 4, pp. 256-265, **2012**. DOI: 10.4236/jilsa.2012.44026
- **Njah S.**, Bezine H. and Alimi M.A., "Linguistic Interpretation for On-line Handwriting using PerTOHS Theory", 16th International Graphonomics Society, IGS, Nara, Japan, pp. 175-178, **2013**.
- **Njah S.**, Ben Nouma B., Bezine H., and Alimi M.A., "MAYASTROUN- A Multilanguage Handwriting Database", 13th International Conference on Handwriting Recognition, ICFHR, Bari-Italy, pp. 308-312, **2012**. DOI: 10.1109/ICFHR.2012.230
- Hammadi M., Bezine H., **Njah S.**, and Alimi M.A., "Towards an Educational Tool for Arabic Handwriting Learning", International Conference on Education and e-Learning Innovations, ICEELI, Sousse-Tunisia, pp. 275-280, **2012**. DOI: 10.1109/ICEELI.2012.6360661
- **Njah S.**, Bezine H., Alimi M.A., "A Fuzzy genetic system for segmentation of On-line Handwriting: Application to ADAB Database", IEEE Symposium Series in Computational Intelligence, 5th International Workshop on Genetic and Evolutionary Fuzzy Systems, IEEE-SSCI-GEFS, Paris-France, pp. 95-102, **2011**. DOI: 10.1109/GEFS.2011.5949492
- **Njah S.**, Bezine H., Alimi M.A., "On-line Arabic Handwriting Segmentation via Perceptual Codes: Application to MAYASTROUN database", 8th International Multi-Conference on Systems, Signals & Devices, IEEE SSD, Sousse-Tunisie, pp. 1-5, **2011**.
- Bezine H., **Njah S.**, Alimi M.A., "Towards an Ink-Enabled Handwriting Editor", International Graphonomics Society, 15th IGS, Cancun-Mexique, pp. 213-216, **2011**. DOI: 10.1109/SSD.2011.5993564
- **Njah S.**, Bezine H., Alimi M.A., "A New Encoding System: Application to On-Line Arabic Handwriting", 12th International Conference on Frontiers in Handwriting Recognition, ICFHR, Kolkata-Inde, pp. 451-456, **2010**. DOI: 10.1109/ICFHR.2010.77
- **Njah S.**, Bezine H., Alimi M.A., "A New Approach for the Extraction of Handwriting Perceptual Codes using", 11th International Conference on Frontiers in Handwriting Recognition, ICFHR, Quebec-Canada, pp. 302-307, **2008**.
- Ltaief M., Bezine H., **Njah S.**, Alimi M.A., "Genetic Algorithms for Perceptual Codes Extraction", International Graphonomics Society, 13th IGS, Melbourne-Australie, pp. 230-234, **2007**.
- Bezine H., **Njah S.**, Alimi M.A., " Identification des fontes arabes anciennes par réseaux de neurones", Atelier sur la Numérisation de l'Ecrit Ancien et des GRANdes Masses de données, ANAGRAM, Fribourg-Swiss, **2006**.
- Kherallah M., **Njah S.**, Alimi M.A. and Derbel N., "Recognition of on-line handwritten digits by neural networks using circular and beta approaches", IEEE International Conference on Systems, Man and Cybernetics, SMC, vol 2, Hammamet-Tunisie, pp. 164-169, **2002**. DOI: 10.1109/ICSMC.2002.1173403
- **Njah S.**, Triki A., Alimi M.A., "Système de reconnaissance de chiffres manuscrits", 18^{ème} Journées Tunisiennes d'Electrotechnique et d'Automatique, JTEA, Nabeul-Tunisie, pp. 18-27, **1998**.



Projects

- Coordinator of the IEEE-HAC project: "Teleworking platform for hospitals during containment in case of a COVID-19 type pandemic", 6-month period from 06/21/2020.
- Member of the cooperation project Tuniso-Marocain : « COnception et DEveloppement d'un outil éducatif bi-langue pour l'aide aux MATHématiques: CODEMA », period : 2010-2011 and 2011-2012, Program : CMPTM: COMITE MIXTE PERMANENT TUNISO-MAROCAIN, Partner : LaRI (Laboratoire de Recherche en Informatique), Faculty of Sciences, Université Mohammed Premier, Oujda, Maroc.

Membership

- IEEE member (N° 41430438)

H-index and scientific metrics

- h-index = 7 citations = 89  Scopus Preview
SCOPUS : <https://www.scopus.com/authid/detail.uri?authorId=6504143651>
h-index = 11 citations = 251  Google Scholar
<https://scholar.google.com/citations?user=XG9966oAAAAJ&hl=en>
ORCID : <https://orcid.org/0000-0002-5530-746X>
DBLP : <http://dblp.uni-trier.de/pers/hd/n/Njah:Sourour>