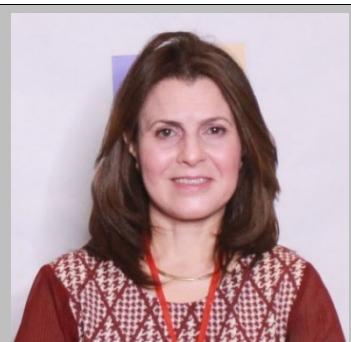


CURRICULUM VITAE

Fadoua DRIRA



PERSONAL INFORMATION

First Name/Last Name	Fadoua DRIRA
Date and place of birth	19/10/1978
Position	Associate Professor
Discipline	Computer Science
University	National Engineering School of Sfax – ENIS- University of Sfax
Actual Administrative Position	Head of REsearch Groups on Intelligent Machines Laboratory ReGIM-Lab.
Professional Address	ENIS-Route Soukra Km 4.5 – B.P.1173,3038, Sfax, Tunisie
Phone	+216 21 413 136
E-Mail	fadoua.drira@enis.tn
Languages	Arabic/French/English : Excellent

PROFESSIONAL EXPERIENCE

REGIM Lab: Research Groups in Intelligent Machines (LR11ES48), University of Sfax, Tunisia	Director, since 2021
Department of Computer Engineering & Applied Mathematics, ENIS, University of Sfax, Tunisia	Director, 2017 - 2020 Associate Professor, since 2021 Assistant Professor , 2011-2021 Assistant , 2007- 2011
Computer Engineering Department, National Institute of Applied Sciences, Lyon, (INSA-Lyon), France.	A.T.E.R. post (Attachée temporaire à l'enseignement et à la recherche), 2006-2007 Teaching Assistant, 2005-2006

EDUCATION AND TRAINING

July 2016	HdR in in Computer Engineering. National Engineering School of Sfax, University of Sfax, Tunisia
December 2007	Philosophiæ Doctor (Ph.D.) in Computer Engineering, Laboratoire d'InfoRmatique en Images et Systèmes d'information (LIRIS)/ Institut National des Sciences Appliquées de Lyon (INSA-Lyon)-20 Avenue Albert Einstein, 69621 Villeurbanne (France)
June 2003	Master of Science (D.E.A) in Computer Engineering, Laboratoire d'InfoRmatique en Images et Systèmes d'information (LIRIS)/ Institut National des Sciences Appliquées de Lyon (INSA-Lyon)- 20 Avenue Albert Einstein, 69621 Villeurbanne (France)
June 2002	National Diploma in Computer Engineering (Engineer), National Engineering School of Sfax, University of Sfax, Route de Soukra km 4 BP 1173 3038 Sfax
June 1999	Certificate of access to engineering schools in Maths-Physics. Sfax Preparatory Engineering Institute (IPEIS), Tunisia.
June 1997	Baccalauréat in Mathematics., Lycée Pilote de Sfax, Tunisia.

RESEARCH PROJECT MANAGEMENT SKILLS & COMPETENCES

Tuniso-Indien project	Scientific Co-coordinator of the Tuniso-Indien project 'Real-time end-to-end Text Detection and Recognition in the Wild' - which is part of the Tunisian-Indian joint project call and submitted with the Computer Vision and Pattern laboratory Recognition Unit (CVPR)-India. Project start date: September 1, 2016 Project end date: August 31, 2019
------------------------------	---

EVENTS ORGANIZATION SKILLS & COMPETENCES

Program Committee Membership	2019 : Applied Mathematical Modeling 2013-2016 : Neural Processing Letters 2014-2020 : Multimedia Tools and Applications 2013 : Advances in Artificial Neural Systems 2018-2019 : International Conference on Signal-Image Technology and Internet-Based Applications 2017-2019 : International Workshop on Arabic and derived Script Analysis and Recognition 2009,2011,2013,2015,2017,2019 : International Conference on Document Analysis and Recognition 2014, 2016, 2018 : International Workshop on Document Analysis Systems 2018 : Middle East Conference on Biomedical Engineering 2016 : International Conference on Pattern Recognition 2012,2014 : International Conference on Frontiers in Handwriting Recognition 2010,2013 : International Computing Conference in Arabic 2014 : International Conference on Soft Computing and pattern recognition
-------------------------------------	---

Event Organization

2022: Chair SfaxTechDay'2022 : DATATECH – Movempick-Sfax
2020: Member of the organizing committee SfaxTechDay'2020 : FINTECH – Movempick-Sfax
2019 : Coordinator Pitch Your Self - 5ème édition - ENIS
2019: Coordinatrice Hello World - Ecole Nationale d'Ingénieurs de Sfax
2018: Coordinator Hackathon Fintech - Local de la société FINLOGIK-Sfax
2018: Coordinator Pitch Your Skills- Foire Internationale de Sfax
2018: Member of the organizing committee of Sfax Intercollegiate Programming Contest SIPC'2018- - Foire Internationale de Sfax
2018 : Member of the organizing committee of Industrial IOT Forum 1.0 - ENIS
2018 : Member of the organizing committee of Programmation Jaycees App Challenge : Connect the municipality - ENIS
2018 : Member of the organizing committee Sfax Problem Solving Competition SPSC'2018 - ENIS
2018 : General chair -Spring school on Deep Learning - Theory, Tools and Application – Sousse
2018 : Member of the organizing committee SfaxTechDay'2018 : Blockchain- Hôtel Golden Tulip-Sfax
2018: Co-coordinator Pitch Your Self - 4ème édition - ENIS
2017: Co-coordinator ENIS Industrial Academic Forum- ENIAF - ENIS
2014 : Workshop chair - 23rd Workshop on Intelligent Machines: Theory & Applications (WIMTA'23-2014) - Sousse
2014 : Program chair - Summer School on computational intelligence – Theory and Applications (SS-CITA'2014) – Tunis
2013 : Symposium chair - The symposium on Machine Intelligence: Theory and applications (ICALT-SIMTA'2013) – Tunis
2017: Member of the evaluation committee of International Girls in ICT Days - Centre de recherche -Sfax

RESEARCH ACTIVITIES

Publications in International Journals

- 2022** [1] R Harizi, R Walha, F Drira Deep-learning based end-to-end system for text reading in the wild, Multimedia Tools and Applications, 1-29, 2022.
- [2] R Harizi, R Walha, F Drira, M Zaid Convolutional neural network with joint stepwise character/word modeling based system for scene text recognition, Multimedia Tools and Applications 81 (3), 3091-3106, 2022
- 2018** [3] R. Walha, F. Drira, F. Lebourgeois, C. Garcia, A. M. Alimi. Handling noise in textual image resolution enhancement using online and offline learned dictionaries. In International Journal on Document Analysis and Recognition (IJ DAR), 21(1-2), pp.137-157, 2018.
- 2017** [4] F. Drira, F. Lebourgeois. Mean-Shift Segmentation and PDE-based non-Linear Diffusion: Towards a Common Variational Framework for Foreground/Background Document Image Segmentation, In International Journal on Document Analysis and Recognition (IJ DAR), 20(3), pp.201-222, 2017.

- 2016** [5] R. Walha, F. Drira, F. Lebourgeois, C. Garcia, A. M. Alimi. Resolution Enhancement of Textual Images: a Survey of single image-based methods, IET Image Processing journal, pp.1-13, 2016.
- 2015** [6] R. Walha, F. Drira, F. Lebourgeois, C. Garcia, A. M. Alimi. Resolution enhancement of textual images via multiple coupled dictionaries and adaptive sparse representation selection. In International Journal on Document Analysis and Recognition (IJ DAR) 18(1), pp.87-107, 2015.
- 2012** [7] F. Drira, F. Lebourgeois, H. Emptoz. A New PDE-based Approach for Singularity-Preserving Regularization: application to degraded characters restoration. In International Journal of Document Analysis and Recognition (IJ DAR), 15(3), pp. 183-212, 2012.

Publications in International Conferences

- 2017** [1] K. Guemri, F. Drira, R. Walha, A. M. Alimi, F. Lebourgeois. Edge based Blind Single Image Deblurring with Sparse Priors. In International Conference on Computer Graphics, Visualization and Computer Vision, pp.174-181, 2017. Conference Ranking : B
- [2] A. Mallek, F. Drira, R. Walha, A. M. Alimi, F. Lebourgeois. Deep Learning with Sparse Prior - Application to Text Detection in the Wild. In International Conference on Computer Graphics, Visualization and Computer Vision, pp. 243-250, 2017. Conference Ranking : B
- 2015** [3] R. Walha, F. Drira, F. Lebourgeois, C. Garcia, A. M. Alimi. Joint Denoising and Magnification of Noisy Low-Resolution Textual Images, 13th International Conference on Document Analysis and Recognition, ICDAR, August 2015, Nancy, France. Conference Ranking : A
- 2014** [4] R. Walha, F. Drira, F. Lebourgeois, C. Garcia, A. M. Alimi. Sparse Coding with a Coupled Dictionary Learning Approach for Textual Image Super-Resolution, 22nd International Conference on Pattern Recognition (ICPR), 2014, Stockholm. Conference Ranking : B
- [5] R. Walha, F. Drira, F. Lebourgeois, C. Garcia, A. M. Alimi. A Sparse Coding based Approach for the Resolution Enhancement and Restoration of Printed and Handwritten Textual Image, 14th International Conference on Frontiers in Handwriting Recognition (ICFHR), September 2014, Crete, Greece. Conference Ranking : B
- [6] R. Walha, F. Drira, F. Lebourgeois, C. Garcia, A. M. Alimi. Histogram of Structure Tensors: Application to Pattern Clustering, 22nd International Conference on Computer Graphics, Visualization and Computer Vision (WSCG), 2014, Czech Republic. Conference Ranking : B
- [7] K. Guemri, F. Drira. Adaptive shock filter for image characters enhancement and denoising. Soft Computing and Pattern Recognition (SoCPaR), 2014, pp. 279-283, Tunis.
- 2013** [8] R. Walha, F. Drira, F. Lebourgeois, C. Garcia, A. M. Alimi. Multiple Learned Dictionaries Based Clustered Sparse Coding for the Super-Resolution of Single Text

Image, 12th International Conference on Document Analysis and Recognition (ICDAR), pp. 484-488, August 2013, Washington DC, USA. Conference Ranking : A

[9] R. Walha, F. Drira, F. Lebourgeois, C. Garcia, and A. M. Alimi. Single Textual Image Super-Resolution Using Multiple Learned Dictionaries Based Sparse Coding, 17th International Conference on Image Analysis and Processing (ICIAP), Part II, LNCS 8157, pp. 439-448, September 2013, Napoli, Italy. Conference Ranking : B

[10] F. Lebourgeois, F. Drira, D. Gaceb, J. Duong. Fast Integral MeanShift: Application to Color Segmentation of Document Images. 12th International Conference on Document Analysis and Recognition (ICDAR), pp. 52-56, 2013, Washington DC, USA. Conference Ranking : A

2012 [11] R. Walha, F. Drira, F. Lebourgeois, A. M. Alimi. Super-Resolution of Single Text Image by Sparse Representation, Workshop on Document Analysis and Recognition (DAR'12), pp. 22-29, December 2012, IIT Bombay, India.

[12] A. Chaari, F. Drira, A. M. Alimi, E. E.-Zsigmond, F. Lebourgeois. New Protocol Design for Wordspotting Assistance System: Case Study of the Collaborative Library Model – ARMARIUS. International Conference on Frontiers in Handwriting Recognition (ICFHR), pp. 780-785, 2012. Conference Ranking : B

[13] F. Drira, F. Lebourgeois. Denoising Textual Images Using Local/Non-local Smoothing Filters: A Comparative Study. International Conference on Frontiers in Handwriting Recognition (ICFHR), pp. 521-526, 2012. Conference Ranking : B

2009 [14] F. Drira, F. Lebourgeois, H. Emptoz. Document images restoration by a new tensor based diffusion process: Application to the recognition of old printed documents, In The 10th International Conference on Document Analysis and Recognition (ICDAR), IEEE ed. Spain. pp. 321-325, 2009. Conference Ranking : A

2007 [15] F. Drira, F. Lebourgeois, H. Emptoz. OCR Accuracy Improvement Through a PDE-based Approach. In the 9th International Conference on Document Analysis and Recognition (ICDAR) IEEE ed. Brazil. pp. 1068-1072. ISSN 0-7695-2822-8. 2007. Conference Ranking : A

[16] F. Drira, F. Lebourgeois, H. Emptoz. A coupled Mean Shift-Anisotropic Diffusion Approach for Document Image Segmentation and restoration. In The 9th International Conference on Document Analysis and Recognition (ICDAR), IEEE ed. 23-26 September, Curitiba, Brazil. pp. 814-818. ISBN 0-7695-2822-8. 2007. Conference Ranking : A

2006 [17] F. Drira, F. Lebourgeois, H. Emptoz. Restoring Ink Bleed-Through Degraded Document Images Using a Recursive Unsupervised Classification Technique. In 7th IAPR Workshop on Document Analysis Systems (DAS'2006), New Zealand. Lecture Notes in Computer Science, Vol. 3872. Springer. ISBN: 3-540-32140-3. pp. 38-49, 2006. Conference Ranking : B

Book Chapter

2008 F. Drira, F. Lebourgeois, H. Emptoz. A Modified Mean Shift Algorithm For Efficient Document Image Restoration. In Signal processing for image enhancement and multimedia processing Ed. Springer Verlag, ISBN 978-0-387-72499-7, on-line copy <http://www.springerlink.com/content/978-0-387-72499-7>, 2008.

