

**PhD in Instrumentation and Computer image
digitalizing technology (University of Burgundy)
Professor at the University of Monastir**



PERSONNEL INFO

Lotfi BOUSSAID

Born on 20th April 1963 in Monastir - Tunisia

Married - Two children

Email: lotfiboussaid@yahoo.fr



Company address: High School of Engineering of Monastir (ENIM)
Electrical Department
Avenue IBN JAZZAR
5019 – Monastir
☎ Office: +216 73 500 244 / +216 54 641 764
☎ Telefax: +216 73 500 514
✉ lotfi.boussaid@enim.rnu.tn
<https://www.linkedin.com/in/lotfi-boussaid-79947327/>



EDUCATION

- **Professor Diploma in Embedded Electronics**
Intituled: "Contribution to the Development of Intelligent Embedded Systems in Real Time"
July 30, 2019 - High School of Engineering of Sfax (ENIS)
- **PhD in Instrumentation and Computer Image Technology**
Intituled: "Study and Implementation of Audiovisual Content Descriptors for Real Time Multimedia Applications"
November 25, 2006.
With Highest Honor distinction with congratulations from the jury
High School of Engineering of Sfax (ENIS) – University of Sfax
Mirande Faculty of Sciences – University of Burgundy
Electronic and Computer Image Technology Laboratory – LE2I
- **Master Diploma in New Technologies of Computer Systems**
Intituled: "Study and Hardware Implementation of Automatic Video Segmentation Algorithms"
July 3, 2003 – High School of Engineering of Sfax (ENIS)
With Highest Honor
- **Electrical Engineer Diploma (Bac + 6)**
Industrial Computer Science (Option)
Intituled: "Design and Implementation of a Digital Control of an Elevator"
July 5, 1989 - High School of Engineering of Monastir (ENIM)
- **Scientific Study Diploma in Physics and Chemistry**
Head of the promotion
June 1985
Faculty of Science and Technology of Monastir – University of Monastir
- **Baccalaureate in Mathematics and Sciences**
June 1982
College of IBN CHARAF – Tunis



WORK HISTORY

- **Professor**
High School of Engineering of Monastir (ENIM)
Electrical Department
University of Monastir
2019 - Current
- **Director of Programs and Development**
Sciences Palace of Monastir
2013 - 2014
- **Associate Professor**
High School of Engineering of Monastir (ENIM)
Electrical Department
University of Monastir
2007 - 2019
- **Assistant Lecturer**
Institut Supérieur des Sciences Appliquées et Technologie de Sousse - (ISSATSo)
Electrical Department
University of Sousse
2006 - 2007
- **Engineer, Trainer in Industrial Computer Science**
Training Center of Electronics of Sousse - (CSFES)
2000 - 2006
- **Network & System Engineer**
Computing Center - High School of Engineering of Monastir (ENIM)
1990 - 2000
- **Head of the Electronic Department**
Textile Company of Monastir (SOMOTEX)
1989 - 1990



TRAINING & CERTIFICATION

- Training of Trainers certification in BIM Revit ©
Autodesk Company - 2018
- International Arbitration Certification (Level C, C+)
CCA Board of International Arbitrators - 2018
- Participation on the First Technical Meeting on Human Settlements Indicators for SDGs
Naivasha, Kenya from 13 to 17 February 2017
- Certification EBCL (The European Business Competence License)
The International Certificate for Business Competence
Level A: Business Bases
- Certification on the Development of FPGA and System on Chip (SOC)
ALTRONIC Group - 2012
- Parallel Programming Workshop for Academia 3.0
Certificate of Completion - Monastir
Intel ® Academic Community - 2010
- Curriculum Development Expert by Competency based Approach
Consortium International de Développement en Éducation
Montréal - Canada, 2003



SKILLS

- Unix SOLARIS 7 Administration,
- Network Administration and Cisco Router Configuration,
- Microsoft Windows NT Administration,
- Linux RedHat Administration,
- Microprocessor 8085, Z80, 8086, 6809, 68000,
- Microcontroller 8051, PIC16Fxx, PIC18Fxxxx, Raspberry Pi, STM32F4
- C Language, Pascal, VHDL, MATLAB,
- PROTEUS, ALTIUM, ORCAD,
- AUTOCAD Electrical,
- MPLAB,
- ISE WEBPACK, MODELSIM,
- PLC SIEMENS, TELEMECANIQUE, OMRON,
- Languages: Arab, French (C2), English (B2)



PROFESSIONAL RESPONSIBILITIES

- President of the Urban Observatory of Monastir, 2016 – 2019
- Vice-President of the National Council of the Tunisian Engineers Association, 2014 – 2018
- Member of The Federation of Arab Engineers, 2016 – Current
- Member of the National Reform Commission
A new vision of the National Engineering Training System, 2015
- Member of the National Recruitment panel of Electronic Assistant, 2012 & 2013
- IT and Electronic Machines damage Commissioner, 2014 – Current
- General Secretary of the Regional Tunisian Engineers Association, 2011 - 2016
- Treasurer and Animator at the Club of Young and Sciences of Monastir, 1992 – Current
- Member of the Safeguard Association of Monastir City, 2007 – 2010



RESEARCH LABORATORIES

- **Researcher at CES Lab.**
Computer and Embedded Systems
High School of Engineering of Sfax (ENIS), University of Sfax, 2002 - 2010
- **Researcher at LE2I Lab.**
Laboratoire d'Électronique et Informatique de l'Image
Faculty of Sciences of MIRANDE – University of Burgundy, 2003 - 2006
- **Researcher at LARATS Lab.**
Laboratoire d'Automatique et de Traitement du Signal et de l'Image
High School of Engineering of Sfax (ENIS), University of Sfax, 2010 – 2012
- **Researcher at EpE Lab.**
Laboratoire d'Électronique & Microélectronique
Faculty of Sciences of Monastir – University of Monastir, 2012 – Current



LIST OF PUBLICATIONS

1. Mohamed Hassine, **Lotfi Boussaid**, Hassani Massouad, « Hybrid techniques for Arabic letter recognition », Journal of Intelligent Information Systems. Vol. 4, No. 1, 2015, pp. 27-34. doi: 10.11648/j.ijis.20150401.14.
2. Mohamed Hassine, **Lotfi Boussaid**, Hassani Messaoud, « Maghrebien dialect recognition based on support vector machines and neural network classifiers International Journal of Speech Technology », International Journal of Speech Technology, ISSN 1381-2416, DOI 10.1007/s10772-016-9360-6, Thomson Reuters, Springer Publishers.
3. Mohamed Hassine, **Lotfi Boussaid**, Hassani Messaoud, « Tunisian Dialect Recognition Based on Hybrid Techniques », The International Arab Journal of Information Technology, Vol. 15, No. 1, January 2018, Thomson Reuters.
4. **Lotfi Boussaid**, Mohamed Hassine, "Arabic isolated word recognition system using hybrid feature extraction techniques and neural network", International Journal of Speech Technology, ISSN 1381-2416, DOI 10.1007/s10772-017-9480-7, Thomson Reuters, Springer Publishers.
5. Awatef Aouf , **Lotfi Boussaid** and Anis Sakly, « TLBO-Based Adaptive Neurofuzzy Controller for Mobile Robot Navigation in a Strange Environment », Computational Intelligence and Neuroscience Journal, Volume 2018, Article ID 3145436, 8 pages, <https://doi.org/10.1155/2018/3145436>, ISSN:1687-5265, Scopus, Hindawi Publishers.
6. Sonia Zouaoui, **Lotfi Boussaid**, Abdellatif Mtibaa, "Priority Based Round Robin (PBRR) CPU Scheduling", International Journal of Electrical and Computer Engineering (IJECE), ISSN: 2088-8708, September 2018, a SCOPUS indexed Journal.
7. Awatef Aouf , **Lotfi Boussaid**, Anis Sakly, "Same Fuzzy Logic Controller for Two-Wheeled Mobile Robot Navigation in Strange Environments", Journal of Robotics, Volume 2019, Article ID 2465219, 11 pages, <https://doi.org/10.1155/2019/2465219>, ISSN: 1687-9600, Hindawi Publishers.
8. Sonia Zouaoui, **Lotfi Boussaid**, Abdellatif Mtibaa, "Improved Time Quantum length estimation for round robin scheduling algorithm using Neural Network", Indonesian Journal of Electrical Engineering and Informatics (IJEI), ISSN 2089-3272, a SCOPUS indexed Journal.
9. **Lotfi Boussaid**, Mohamed Hassine, Book chapter "Advances in Artificial Intelligence: Reviews", Book Series, Vol. 1 (IFSA PUBLISHING, S.L.), "Artificial intelligence approaches applied to Arabic digits, letters and isolated words recognition".
10. Abdellatif Mtibaa, Abdessalem Ben Abdelali, **Lotfi Boussaid** and Elbey Bourennane, "An Iterative Method for Algorithms Implementation on a Limited Dynamically Reconfigurable Hardware", Juin 2006, Journal of Computer Science, pp 422-430, ISSN 1549-3636.
11. A. Mtibaa, **Lotfi Boussaid** and Houda Ben Mansour, "Implementation of a Video Cut Detector on a Mixed Architecture DSP/FPGA", Juin 2006, Research Journal of Applied Sciences.
12. **Lotfi Boussaid**, A. Mtibaa, M. Abid et M. Paindavoine, "Real-Time Algorithms for Video Summarization" Avril 2006, Asian Network for Scientific Information – Journal of Applied Sciences.
13. **Lotfi Boussaid**, A. Mtibaa, M. Abid et M. Paindavoine, "A Real-Time Shot Cut Detector: Hardware Implementation" Juin 2005, Computer Standards & Interfaces Journal 29 (2007) 335–342.

▪ International Conferences

1. Azer Slimane, **Lotfi Boussaid**, Ameer Sboui, Mohamed Abid, « Lane Markings Detection Using Image Processing Technology », SENDA'08, Monastir, Tunisia, October 24-26, 2008.

Les (05) conférences suivantes sont reconnues et citées dans la base SCOPUS :

2. Amine Souki, **Lotfi Boussaid**, Mohamed ABID, « An Embedded System for Real-Time Traffic Sign Recognizing », Design and Test Workshop, 2008. IDT 2008. 3rd International, DOI: 10.1109/IDT.2008.4802512, **IEEE Publisher**, 20-22 December 2008, Monastir - Tunisia.
3. Sonia Zouaoui, **Lotfi Boussaid**, Abdellatif Mtibaa, « CPU Scheduling Algorithms: Case & Comparative Study », The 17th international conference on Sciences Techniques of Automatic Control & Computer Engineering, STA'2016, December 19-21, 2016, Sousse, Tunisia.

4. Sonia Zouaoui, **Lotfi Boussaid**, Abdellatif Mtibaa, « SmallRTOS: Microcontroller-based Embedded Multitasking », 2017 International Conference on Engineering & MIS (ICEMIS), DOI: 10.1109/ICEMIS.2017.8273015, 8-10 May 2017, Monastir, Tunisia.
5. Awatef Aouf, **Lotfi Boussaid** and Anis Sakly, « A PSO algorithm applied to a PID controller for motion mobile robot in a complex dynamic environment », 2017 International Conference on Engineering & MIS (ICEMIS), DOI: 10.1109/ICEMIS.2017.8273012, May8-10, 2017, Monastir, Tunisia.
6. Awatef Aouf, **Lotfi Boussaid** and Anis Sakly, « Fuzzy Controller with Neighborhood Zone for Obstacles Avoidance Applied to a Differential Robot », The 14th International Multi-Conference on Systems, Signals and Devices, SSD'2017, March 28-31, 2017, Marrakech Morocco.
7. **Lotfi Boussaid**, A. Mtibaa, M. Abid et M. Paindavoine, "A Real-Time Shot Boundary Detection Algorithm Based on Local Histogram", SSD'05, IEEE International Conference on Signals Systems Decision and Information Technology, du 21 au 24 Mars 2005, Sousse - Tunisie.
8. **Lotfi Boussaid**, A. Mtibaa, M. Abid et M. Paindavoine, "Conception d'un descripteur de Contenu Vidéo sur une Architecture à base de FPGA Virtex", Journées Francophones sur l'Adéquation Algorithme Architecture (JFAAA'05), du 18-21 Janvier 2005, Dijon - France.
9. **Lotfi Boussaid**, A. Mtibaa, M. Abid, "Exploration de l'espace de conception des architectures reconfigurables appliquée à la segmentation automatique de la vidéo basée sur les histogrammes des blocs", SCS '04 18-21 Mars 2004, Monastir - Tunisie.
10. **Lotfi Boussaid**, A. Mtibaa, A. Abdelali, C. Vial, M. Abid & L. Chen, "High-level specification and validation of video segmentation based on the block histogram with dynamic threshold", SSD'03, IEEE International Conference on Signals Systems Decision and Information Technology, 26-28 Mars 2003, Sousse - Tunisie.
11. A. Ben Abdelali, A. Mtibaa, **Lotfi Boussaid**, C. Vial, M. Abid, L. Chen, "Hardware implementation solutions of the Compact Color Descriptor (CCD)", SSD'03, IEEE International Conference on Signals Systems Decision and Information Technology, 26-28 Mars 2003, Sousse - Tunisie.
12. **Lotfi Boussaid**, H. Messaoud, T. Filali, "Commande numérique d'un ascenseur", JTEA'89 Dixième Journées Tunisiennes d'Electronique et d'Automatique, du 8 au 10 Décembre 1989, Hammamet, Tunisie.