# **Curriculum Vitae**

#### Naziha DHIBI

**Personal informations** 

Full Name Dhibi Naziha

Address City Ennour, Gafsa, Tunisia

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Date and place of birth July 14, 1986 in Gafsa, Tunisia

Marital status Married

Phone (00216) 55 70 46 63

Membership

REGIM-Lab(Research Groups on Intelligent Machines) December, 2010.

IEEE (Institute of Electric and Electronic Engineering) December, 2012.

PhD thesis

13-12-2016 Doctor in "Computing System Engineering", in National Engineering

School of Sfax(ENIS) with a very honorable not

2011-2016: PhD student on "Computing System Engineering", in National Engineering School

of Sfax (ENIS).

**Thesis Title:** "Multi library Wavelet Neural Network architecture for 3D mesh Deformation

using Trust Region Spherical Configuration and Multi-layer Compression

Algorithm"

Target: Develop an effective system for 3D objects deformation using multi-mothers

Wavelets network

**Supervisor:** Chokri Ben Amar, Professor at the National School of Engineers of Sfax.

**Co-supervisor:** Dr. Akrem Elkefi, Assistant Professor at the Faculty of Science of Sfax.

Dr. Wajdi Bellil, Assistant Professor at the Faculty of Science of Gafsa.

### **Master's thesis**

2009-2011 Research Master, Industrial automatic computer (AII), computer system

specialty, in National School of Engineers (ENIS).

**Title:** Study implementation of a new training algorithm for wavelet networks based

on genetic algorithm and multiresolution analysis for 3D objects modelling

**Supervisor:** Chokri Ben amar professor at the National School of Engineers of Sfax.

**Co-supervisor:** Dr. Wajdi BELLIL, Assistant Professor at the Faculty of Science of Gafsa.

# **Graduation**

**2007-2009:** Get a professorship in Computer Sciences in Faculty of sciences of Gafsa

with honors

**2005-2007:** Ending of the first stage of the university degree in the specialization of

mathematics and computer sciences with honors

**2004-2005:** Baccalaureate Diploma in experimental sciences (New year high school

Gafsa)

### Research areas

3D mesh modeling, Wavelet network , Multiresolution

Master

analysis

Thesis

3D deformation objects, Spherical parameterization, 3D mesh compression.

### **Publications**

- **1. Naziha DHIBI**, Chokri BEN AMAR "Performance of Genetic Algorithm and Levenberg Marquardt Method on Multi-Mother Wavelet Neural Network Training for 3D Huge Meshes Deformation: A Comparative Study. Neural Processing Letters.53, 2221-2241. (2021).
- 2. Naziha DHIBI, Chokri BEN AMAR "Multiresolution analysis relying on Beta wavelet transform and multi-mother wavelet network for a novel 3D mesh alignment and deformation technique" In International Journal of Machine Learning and Cybernetics, 2020, Publisher: Springer Science + Business Media.
- **3. Naziha DHIBI,** Chokri Ben AMAR "Multi-mother wavelet neural network based on genetic algorithm and multiresoluion analysis for fast 3d mesh deformation" In Journal of IET Image Processing 2019, Volume 13, 2480-2486.
- **4. Naziha DHIBI,** Akram ELKEFI, Wajdi BELLIL, Chokri BEN AMAR "Multi-layer compression algorithm for 3D deformed mesh based on Multi library Wavelet Neural Network architecture", In Journal of Multimedia Tools and Applications(MTA), Volume 75, 13 October 2016, Publisher: Springer
- **5.** Naziha DHIBI, Akram ELKEFI, Wajdi BELLIL, Chokri BEN AMAR "3D High resolution mesh deformation based on Multi Library Wavelet Neural Network architecture", In Journal of 3D research(RES), Volume 7 Issue 4, December 2016, Publisher: Springer Science + Business Media.
- **6. Naziha DHIBI**, Chokri BEN AMAR "Multi-mother wavelet neural network training using genetic algorithm-based approach to optimize and improves the robustness of gradient-descent

- algorithms: 3d mesh deformation application, in 15th International Work-Conference on Artificial Neural Networks IWANN2019.
- 7. Naziha DHIBI, Akram ELKEFI, Chokri BEN AMAR A Study on the Influence of Wavelet Number Change in the Wavelet Neural Network Architecture for 3D Mesh Deformation Using Trust Region Spherical Parameterization, in 28th International Conference on Artificial Neural Networks. ICANN 2018: 545-555.
- **8. Naziha DHIBI**, Akram ELKEFI, Wajdi BELLIL, Chokri BEN AMAR, "A trust region Optimization Method for fast 3D spherical configuration in Morphing Processes", in 13th International Conference on Advanced Concepts for Intelligent Vision Systems (ACIVS2015), Volume 9386 of the series LNCS, Page :541-552, 2015.
- **9. Naziha DHIBI**, Akram ELKEFI, Wajdi BELLIL, Chokri BEN AMAR, "Semi-regular Remeshing based trust region spherical geometry image for 3D deformed mesh used MLWNN", in 9th International Conference on Machine Vision (SPIE-ICMV 2016),
- 10. Naziha DHIBI, Akram ELKEFI, Wajdi BELLIL, Chokri BEN AMAR, "Study implementation of a new training algorithm for wavelet networks based on genetic algorithm and multiresolution analysis for 3D objects modeling (MELECON), in 16th IEEE Mediterranean Electrotechnical Conference (MELECON), Page:656-668,2012.

# Participation in seminars and training

- October 2019] participation in the Conference-Seminar "Collective Intelligence for a New Society" organised at ISET of Gafsa.
- ♦ [March 2018] participation in the **WILEY training** "Editor's tips and overview of the field of scientific publication: what to do to publish and how the scientific journals work" organized at the Faculty of Sciences of Gafsa.
- ♦ [November 2017] participation in the training "**Fundamentals of 3D Printing**" organized at the Faculty of Science of Gafsa.
- ♦ [November 2016] participation at the **9th International Machine Vision Conference** (ICMV 2016) organized in Nice-France.
- ♦ [October 2015] participation in the **13th International Conference on Advanced Concepts for Intelligent Vision Systems** (ACIVS) organized in Catania-Italy.
- ♦ [December 2015] **25th Wimta'2015 (Workshop on Intelligent Machines Theory & Applications 2015)**, organized by REGIM-Lab Research Groups on Intelligent Machines, *Mahdia, Tunisia*.
- ♦ [March 2015] **24th Wimta'2015 (Workshop on Intelligent Machines Theory & Applications 2015)**, organized by REGIM-Lab: Research Groups on Intelligent Machines, *Hammamet, Tunisia*.
- \* [December 2014] **23th Wimta'2014 (Workshop on Intelligent Machines Theory & Applications 2014)**, organized by REGIM-Lab: Research Groups on Intelligent Machines, *El Ksar Hotel, Sousse, Tunisia*.
- \* [ March 2014 ] **22th Wimta'2014 (Workshop on Intelligent Machines Theory & Applications 2014)**, organized by REGIM-Lab: Research Groups on Intelligent Machines, *El Ksar Hotel, Sousse, Tunisia*.
- \* [December 2013] **21th Wimta'2013 (Workshop on Intelligent Machines Theory & Applications 2013)**, organized by REGIM-Lab: Research Groups on Intelligent Machines, *Hotel Riadh Palms, Sousse, Tunisia*.
- ♦ [May 2013] **20th Wimta'2013 (Workshop on Intelligent Machines Theory & Applications 2013)**, organized by REGIM-Lab: Research Groups on Intelligent Machines, *El Mouradi Palace Hotel, Sousse, Tunisia*.
- ♦ [October 2013] participation in an **English training at Bourghiba school** Gafsa Level: 3.
- \* [March 2012] participation in the **16th IEEE Mediterranean Electrotechnical Conference** (MELECON) organized in Yasmine Hammamet-Tunisia.
- \* [December 2012 ] 19th Wimta'2012 (Workshop on Intelligent Machines Theory & Applications 2012), organized by REGIM-Lab: Research Groups on Intelligent Machines, El MouradiSkanes, Monastir, Tunisia.
- \* [ March 2012 ] **18th Wimta'2012 (Workshop on Intelligent Machines Theory & Applications 2012)**, organized by REGIM-Lab: Research Groups on Intelligent Machines, *Marhaba Palace, Sousse, Tunisia*.

## **Teaching experience**

#### 2021-2022

- ✓ Teacher in computer science in the private high school for engineers in Gafsa, (ESIP), Tunisia.
  - Hourly charge: annual
  - Tasks: Teaching and supervision of graduation projects
  - Subjects taught: Graph Algorithmic and Optimization, Algorithmic Data Structure and Language C, Programming Project, Development and Design Project, Development Project for Distributed Application, Interactive decision support system, Advanced Web Programming.

#### 2020-2021

- ✓ Teacher in computer science in the private high school for engineers in Gafsa, (ESIP), Tunisia.
  - **Hourly charge**: annual
  - Tasks: Teaching and supervision of graduation projects
  - Subjects taught: Database Management System, Graph Algorithmic and Optimization, Algorithmic Data Structure and Language C, Database Design, Software Engineering, Distributed Database, Game Design, Programming Project, Development and Design Project, Development Project for Distributed Application

#### 2019-2020

- ✓ Teacher in computer science in the private high school for engineers in Gafsa, (ESIP), Tunisia.
  - Hourly charge: annual
  - **Tasks**: Teaching and supervision of graduation projects
  - Subjects taught: Database Management System, Graph Algorithmic and Optimization, Algorithmic Data Structure and Language C, Database Design, Software Engineering, Distributed Database, Game Design, Programming Project, Development and Design Project, Development Project for Distributed Application

#### 2018-2019

- ✓ Teacher in computer science in the private high school for engineers in Gafsa, (ESIP), Tunisia.
  - Hourly charge: annual
  - **Tasks**: Teaching and supervision of graduation projects
  - Subjects taught: Database Management System, Graph Algorithmic and Optimization, Algorithmic Data Structure and Language C, Database Design, Software Engineering, Distributed Database, Game Design, Programming Project, Development and Design Project, Development Project for Distributed Application

#### 2017-2018

- ✓ Contractual assistant teacher in computer science in the private high school for engineers in Gafsa(ESIP), Tunisia.
  - Hourly charge: annual contract
  - Tasks: Teaching and supervision of graduation projects
  - Subjects taught: Database Management System, Graph Algorithmic and Optimization, Algorithmic Data Structure and Language C, Database Design, Software Engineering, Distributed Database, Game Design, Programming Project, Development and Design Project, Development Project for Distributed Application
- ✓ Teacher in computer science science in Faculty of Sciences of Gafsa, (FSG), Tunisia.
  - **Hourly charge**: .7.5h / week
  - Tasks: Teaching and supervision of graduation projects
  - Subjects taught: Programming Workshop2, Object Oriented Design Workshop.

#### 2016-2017

- ✓ Assistant teacher in computer science in the private high school for engineers in Gafsa(ESIP), Tunisia
  - **Hourly charge**: 7.5h / week
  - Tasks: Teaching and supervision of graduation projects
  - Subjects taught: Database Management System, Graph Algorithmic and Optimization, Programming Project

#### 2011-2015

- ✓ Contractual assistant teacher in computer science, Higher Institute of Business Administration in Gafsa (ISEAG). Tunisia.
  - **Hourly charge**: annual contract
  - **Tasks**: Teaching and supervision of graduation projects
  - Subjects taught: Logic System, Electronic Data Interchange and E-Commerce, 2D,3D Mesh and visualization, Industrial Vision, Sound technique, Photoshop, Basic concept.

## **Project - Coaching**

- \* Taieb nadia and bourokba zohra: "Learning of the wavelet network: 3D objects modeling application", 2011-2012 demic year.
- \* Abidi dhekra: "Design and implementation of a video game web application", 2012-2013 academic year.
- \* Haji salima and hafsaoui wafa''Creation of an interactive CD for the preparation phase 5/6 years'' academic year 2012-2013.
- \* Barhoumi wafa''Chak-Wak virtual tour with panoramic view'' 2012-2013 academic year''.
- \* Slimen marwa and benabdallah fatma"Development of a cartoon with 3DsMax" 2012-2013 academic vear".
- Ben Ali Rihem and Zidani Aziza"Development of video games on a Windows phone platform" 2012-2013 academic year"
- \* Etoumi Marwa and Hamad Fatma"Design and development of a dynamic online investment website" 2013-2014 academic year".
- \* Issaoui Nesserine"Advertising tape for the phosphate company of Gafsa" 2014-2015 academic year.
- Thlaijia Houssine"Design and implementation of a student absence management application"

#### 2014-2015 academic year".

- ♦ Mohamed Hedi Abed & Abed Nouh: "Design and development of an e-commerce site" BOOKSTORE" academic year 2016-2017.
- \* Hamdi Maher: "Design and development of a WEB FLOW PROJECT application for INNOVATIVE SPIRIT project management" 2016-2017 academic year.
- \* Oumaima Chaabani & khawla Say: "Design and implementation of a web application for the management of operational training of YAZAKI GAFSA employees".
- ♦ Ali amara & Hamza essid: "Management of an administrative system of the organization of educational institutions"
- ♦ Ferdaws othmani & mohamed ghennich: "Realization of an onboard system of remote management and control of a water well controlled by an Android application"
- ♦ Ala dhahri & Lamjed elghorz: «Design and development of a mobile application of pharmacies and drugs research»
- Rathia Bouallegue: «Web application: Management of the law firm»
- Marwaan Elkefi: «Design and production of a Heatmaps and Visitor Recordings platform»
- \* Tarek Dhibi: «Development of an advanced search integration tool in the Open Bee Search solution»
- **♦** Taieb amari: **«Design and creation of an e-commerce website with new technologies»**

		Languages		
Arabic				
Frensh				
English				
		Other in	terests	
Entertainment	Internet			