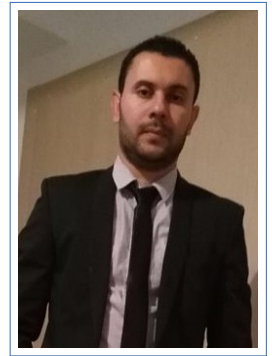


# Haythem Ghazouani

## Curriculum Vitae

University of Carthage  
National School of Engineering of Carthage,  
Computer Science Dep.,  
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✉ haythemghz@yahoo.fr



### Personal Information

**Date of Birth** 03-07-1982

**Marital Status** Married and father of 2 children

**Nationality** Tunisian

**Place of residence** Tunis

**Mobile phone** (+216) 98 621 142

**Email** haythemghz@yahoo.fr

### Professional Experiences

#### Administrative Experience

2017

**Head of Computer Engineering Department**, *National School of Engineering of Carthage (Enicarthage)*, University of Carthage, Tunis, Tunisia.

#### Public Teaching Experiences

2011

**Assistant Professor in Computer Science**, *National School of Engineering of Carthage (Enicarthage)*, University of Carthage, Tunis, Tunisia.

2007

2011

**Assistant Professor in Computer Science**, *National School of Computer Science (ENSI)*, University of Manouba, Manouba, Tunisia.

#### Private Teaching Experiences

2013






**Temporary Lecturer**, *Private University of Tunis, ULT*, Tunis, Tunisia.

2012  
2013

**Temporary Lecturer**, *Ecole Supérieure Privée d'Ingénierie et de Technologies, Esprit*, Ariana, Tunisia.

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## Educational Background

	<b>PhD Computer Science</b> , <i>National School of Computer Science (ENSI), - University of Manouba, Tunis, Tunisia.</i>
	<b>PhD Computer Science</b> , <i>University of Montpellier II (UM2) , Montpellier, France.</i>
	<b>Master Computer Sciences</b> , <i>National School of Computer Science (ENSI), - University of Manouba, Tunis, Tunisia.</i>
	<b>Engineering Computer Science</b> , <i>National School of Computer Science (ENSI), University of Manouba, Tunis, Tunisia.</i>
	<b>Preparatory cycle for Engineering studies mathematics-physics</b> , <i>(Preparatory institute for engineering studies of Tunis (IPEIT), Tunis, Tunisia.</i>

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## Theses

### PhD Thesis

**TITLE** Visual navigation of mobile robots in indoor environments  
**ADVISOR** Professor Tagina M. and Professor Zapata R.

### Master Thesis

**TITLE** Mobile Robot Control Algorithms using a Soft Computing Approach  
**ADVISOR** Professor Tagina

### Engineering Thesis

**TITLE** Path planning for mobile robots  
**ADVISOR** Professor Tagina

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## Research Interests

- Artificial Intelligence**
  - Meta heuristics
  - Data Mining
  - Machine Learning
  - Data Analytic
- Image Processing**
  - Texture image classification
  - Facial Expression Recognition
  - Face Recognition
- Robotic**
  - Path planning
  - Mobile robot navigation
  - Environment modeling

## Affiliations

- FRANCE** Laboratory of Informatics, Robotic and Microelectronic of Montpellier (**LIRMM**) (*ROB/EXPLORE team*)
- TUNISIA** Laboratory of Informatics, Modeling and Information and Knowledge Processing (**LIMTIC**) (*SIIVA team*)
- TUNISIA** Member of the 4C (Career Center and Certification Skills) team of Enicarthage

## Teaching

**2018** **Meta-Heuristics and Machine Learning**, *Enicarthage*, 2nd Year Research Master in Technology Information and telecommunications, 21 hours of courses. Swarm Intelligence, Genetic Algorithms, Neural Networks, ..

**2015** **Mobile Development**, 3rd Year Computer Science Engineering, 21 hours of courses and practical works.  
Android and iOS

**2012** **Artificial Intelligence**, 3rd Year Computer Science Engineering degree, 45 hours of courses and tutorials.  
fundamentals of AI

**2011**  
**2012** **Object-oriented programming**, 1st Year Professional Master degree, 30 hours of courses and practical works.  
fundamentals of OOP

**2011**  
**2012** **Image Processing**, 1st Year Professional Master degree, 30 hours of practical works.  
Image processing with Python

**2011**  
**2012** **Advanced database management systems**, 3rd Year computer science degree, 45 hours of courses and practical works.  
PL/SQL and transactions

**2007**  
**2011** **Unix development Environment**, 2nd Year computer science engineering degree, 45 hours of courses and practical works.  
Kernel programming

**2007**  
**2011** **Introduction for Operating Systems**, 2nd Year computer science engineering degree, 45 hours of courses and practical works.  
OS fundamentals

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## Supervision

### Co-supervised PhD

2017

**Hela Bejaoui**, *PhD. In Computer Science, Facial Emotion Recognition*, In Progress.

### Supervised Master

2016  
2017

**Khouloud Ferchici**, *Master In ITC, Face Recognition under difficult constraints*, Enicarthage.

Very good, defended in December 2017

2016  
2017

**Yosra Antit**, *Master In ITC, Genetic Algorithm for texture image classification*, Enicarthage.

Very good, defended in Mars 2017

2015  
2016

**Hela Bejaoui**, *Master In ITC, Facial emotion recognition using Kinect*, Enicarthage.

Very good, defended in December 2016

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## Publications

[Bejaoui et al., 2017]

Bejaoui, H., Ghazouani, H., and Barhoumi, W. (2017). **Fully Automated Facial Expression Recognition Using 3D Morphable Model and Mesh-Local Binary Pattern**. *International Conference on Advanced Concepts for Intelligent Vision Systems (ACIVS)*. pp. 30-50, Antwerp, Belgium, 18-21 September, 2017.

[Ghazouani, 2012]

Ghazouani, H. (2012). **Navigation visuelle de robots mobile dans un environnement d'intérieur**. *thèse de doctorat. Université de Montpellier 2/Ecole Nationale des Sciences de l'Informatique, France/Tunisie*, <http://www.theses.fr/2012MON20157>, 2012.

[Ghazouani, 2014]

Ghazouani, H. (2014). **Genetic Stereo Matching Algorithm with Fuzzy Fitness**. *6th International Conference of Soft Computing and Pattern Recognition (SoCPaR)*. pp. 1-5, Tunis, Tunisia, August, 2014.

[Ghazouani and Tagina, 2007]

Ghazouani, H. and Tagina, M. (2007). **A behavior-based controller with evolutionary adapted fuzzy rule base for a car-like mobile robot**. *In Proceedings of the 2007 International Conference on Artificial Intelligence, (ICAI'07). Volume II, June 25-28, Las Vegas, Nevada, USA*, pp. 508-514. (CSREA Press), 2007.

[Ghazouani et al., 2010a]

Ghazouani, H., Tagina, M., and Zapata, R. (2010a). **A theory of possibility for reliable correspondence search**. *International Journal of Signal and Image Processing (IJSIP)*. Vol. 1, No. 4, pp. 232-237. 2010.

[Ghazouani et al., 2010b]

Ghazouani, H., Tagina, M., and Zapata, R. (2010b). **Robot navigation map building using stereo vision based 3d occupancy grid**. *Journal of Artificial Intelligence: Theory and Application (JAITA)*. Vol. 1, No. 3, pp. 63-72., 2010.

- [Ghazouani et al., 2011] Ghazouani, H., Tagina, M., and Zapata, R. (2011). **Fast and Robust Semi-Local Stereo Matching Using Possibility distributions**. *International Journal of Computational Vision and Robotics, (IJCVR)*. Vol.2, No.3, pp.237-253, inderscience publishers, 2011.
- [Ghazouani et al., 2010c] Ghazouani, H., Zapata, R., and Tagina, M. (2010c). **Fuzzy sets based improvement of a stereo matching algorithm with balanced correlation window and occlusion detection**. In *Proceedings of the 2010 International Conference on Image Processing, Computer Vision, Pattern Recognition, (IPCV'10)*. Volume II July 12-15, Las Vegas, Nevada, USA, pp. 701-707, (CSREA Press), 2010.

## Languages

Arab	Native	
English	Fluent	
French	Fluent	
Italian	Basic Fluency	Good Understanding, Medium Speaking, Basic Writing

## Skills

Programming	Python, Java, C, C++, SQL, Swift, $\LaTeX$
Operating Systems	Windows, Linux, Android, iOS
Tools	GitHub, PyCharm, BitBucket
Other Skills	Communication, Event Organization, Team leading

## Event Organization

2018 **FEE**, Annual Enterprise Forum of Enicarthage, FEE'18, Tunis, Tunisia.  
Member of the Organizing Committee.

2017 **Enicarthage Hackathon 2017**, A 24 hours coding competition, Tunisia.  
Member of the Organizing Committee.

## Certificates

2015 **IBM Mobile Application Developer**, Worklight Studio v6.2, Licence: 6210-1433-8430-329, Mobile Hybrid Programming.

2018 **Problem solving and Team Work Enhancement**, German Academic Exchange Service, (DAAD).

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## Other Activities

2018

• **Participation in the completion of the PAQ-PRICE project with a fund of 200,000 DT**, *FabLab in mechanics and a MaC OS Laboratory for the National School of Engineers of Carthage*, 4C Team, Tunisia.

2017

• **Member of the teacher recruitment committee**, *University of Carthage*, Tunisia.

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## References

### René Zapata

Professor

LIRMM Lab., IAG-USP

Montpellier, France

✉ [Rene.Zapata@lirmm.fr](mailto:Rene.Zapata@lirmm.fr)

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### Moncef Tagina

Professor

Manouba University

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