

# Curriculum Vitae

## Personal information

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<b>Name:</b>	Tarek M. HAMDANI
<b>Date of birth:</b>	01/09/79 à Tunis
<b>Civil situation:</b>	Married, 1 children: Kamar
<b>N° C.I.N.:</b>	05381809
<b>Unique Identifier:</b>	83386957
<b>Permanent address:</b>	Airport RD, Km 2.5 BP N°10, 3023, Sfax, Tunisie
<b>Phone:</b>	(216) 74 274 088
<b>Mobile Phone:</b>	(216) 98 956 385
<b>E_MAIL :</b>	tarek.hamdani@ieee.org
<b>Web page:</b>	<a href="http://www.regim.org/Membres/~hamdani_tarek/">http://www.regim.org/Membres/~hamdani_tarek/</a>

## Actual Activity

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- ❖ Doctor at REGIM (REsearch Group on Intelligent Machines) at l'Ecole Nationale des Ingénieurs de Sfax (ENIS), University of Sfax, Tunisia.
- ❖ University Assistant at l'Institut Supérieur d'Informatique de Mahdia (ISIMa), University of Monastir, Tunisia.

## Main Degree

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- ❖ 2003-2011  
*Degree:* PhD (ENIS); “*Model Selection of Beta Neuro-Fuzzy Classifiers for High Dimensional Data*”  
*Speciality:* Ingénierie des Systèmes Informatiques (ISI).
- ❖ 2001-2003  
*Degree:* Master (ENIS); «*Système de reconnaissance de chiffres manuscrits par approche  $\beta$ -Support Vector Machines* » (*Soutenance 07-2003*).  
*Speciality:* Nouvelles Technologies des Systèmes Informatiques Dédiés (NTSID).
- ❖ 1999-2001  
*Degree:* Maîtrise (FSEGS); «*Reconnaissance des chiffres manuscrits par approche neuronale* » (*Soutenance 06-2001*).  
*Speciality:* Informatique Appliquée à la Gestion (IAG).
- ❖ 1997-1999  
*Degree:* Diplôme d'études universitaires du premier-cycle (FSEGS);  
*Speciality:* Informatique Appliquée à la Gestion (IAG).
- ❖ 1996-1997  
*Degree:* Baccalauréat ;  
*Speciality:* Sciences expérimentales.

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## Professional and Research Objectives

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Teaching, research and design of Intelligent Machines:

❖ *Topic 1. iBrain*

Learning, neural systems, fuzzy systems, evolutionary and genetic algorithms, swarm , multi-agent systems

❖ *Topic 2. iVision*

Classification, classifiers combination, features extraction, high dimension classification problems, handwriting recognition, perception

❖ *Topic 3. Computer Network*

LAN, Intranet management, Intranet Application Development, Lotus Notes, Network operating systems, Linux, freeware

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## Publications

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❖ *Papers in International journals*

- M.T. Hamdani, M.A. Alimi, and M.A. Khabou, “An Iterative Method for Deciding SVM and Single Layer Neural Network Structures,” *submitted to Neurocomputing*, 2008.
- M.T. Hamdani, M.A. Khabou, M.A. Alimi, and F. Karray, “Multi-Agent Design for Classification based on Multi-Classifiers Context in Pattern Recognition Systems,” *submitted to EAI*, 2008.
- M.T. Hamdani, J.M. Won, M.A. Alimi, and F. Karray, “Hierarchical Genetic Algorithm with New Evaluation Function and Bi-Coded Representation for Features Selection with Confidence Rate,” *submitted to Pattern Recognition Letters*, 2007.
- M. Charfi, M. T. Hamdani, and M. A. Alimi, “A New Decision-Making Intelligent System for the Recognition of Bilingual Handwritten Postal Addresses”, *Journal of Decision Systems*, JDS-14/2005. *Intelligent Decision Systems*, pages 109–122, Lavoisier 2005.

❖ *Articles in International conferences*

- M.T. Hamdani, M.A. Alimi, and F. Karray, “Enhancing the Structure and Parameters of the Centers for BBF Fuzzy Neural Network Classifier Construction Based on Data Structure,” in *Proc. IEEE International Joint Conference on Neural Networks*, Hong Kong, June, 2008, pp.3174–3180.

- T. Ayadi, T.M. Hamdani, A.M. Alimi, and M.A. Khabou, “2IBGSOM: Interior and Irregular Boundaries Growing Self-Organizing Maps,” *Sixth International Conference on Machine Learning and Applications, ICMLA 2007*, pp.387–392.
- Tarek M. Hamdani, Jin-Myung Won, Adel M. Alimi, and Fakhri Karray, “*Multi-objective Feature Selection with NSGA II*,” Proc. International Conference on Adaptive and Neural Computing Algorithms, ICANNGA 2007, Part I, LNCS 4431, pp. 240–247, 2007. B. Beliczynski et al. (Eds.) Springer-Verlag Berlin Heidelberg, 2007.
- M.T. Hamdani, M.A. Alimi, and F. Karray, “*Distributed Genetic Algorithm with Bi-Coded Chromosomes and a New Evaluation Function for Features Selection*,” Proc. IEEE Congress on Evolutionary Computation, pp. 2596–2603, Vancouver, BC, CANADA, July 16-21, 2006.
- M. T. Hamdani and M. A. Alimi, “*Support Vector Machines and Neural Approach Integration: Paradigm and Formulation*”, International Symposium: Computational Intelligence and Intelligent Informatics, (ISCIII), pages 19–23, October 2005.
- M. T. Hamdani and M. A. Alimi, “*How Are  $\beta$ -SVM Good Kernels*”, World Computer Congress (WCC): Artificial Intelligence Applications and Innovations, (AIAI), pages 283–292, August 2004.
- M. T. Hamdani et M. A. Alimi, “*Conception orientée agents pour la reconnaissance de formes*”, IEEE Premier Congrès Internationale de Signaux, Circuits & Systèmes (SCS'04), Mars 2004.
- M. T. Hamdani and M. A. Alimi, “ *$\beta$ -SVM a new support vector machine*”, Artificial Neural Networks and Genetic Algorithms, pages 63–68, David W. Pearson, Springer 2003.
- M. T. Hamdani and M. A. Alimi, “*Support Vector Machines for digit recognition*”, Second IEEE International Conference on Systems, Signals & Decision (SSD'03), Mars 2003.

## Professional Activities

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- ❖ *Since 2006 University Assistant at la ISIMa of Mahdia*
- ❖ *2003-2006 University Assistant at la FSEG of Sfax*
- ❖ *2001-2003 Student Researcher at FSEG of Sfax*

## Scientific Activities

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- ❖ *Reviewer in scientific international revues*
  - NeuroComputing, Elsevier, ISSN: 0925-2312
  - Neural Networks, Elsevier, ISSN: 0893-6080

- Pattern Recognition Letters, Elsevier, ISSN: 0167-8655
- Soft Computing, Springer, ISSN: 1432-7643
- Neural Processing Letters, Springer, ISSN: 1370-4621
- ❖ *IEEE: Member (Since 2001)*
- ❖ *Member: « IEEE Systems, Man, and Cybernetics (SMC) Society » (Since 2001)*
- ❖ *Treasure IEEE SMC Tunisia Chapter (2009-2010).*
- ❖ *Member: « IEEE Computational Intelligence Society (CIS) » (Since 2004)*
- ❖ *Responsible and coordinator of freeware development club (2002-2004)*
  - « Development on Linux »*
- ❖ *Organization of international scientific conferences*
  - Member of the organizing committee of the second international conference ACIDCA-ICMI'2005*
  - International Conference on Machine Intelligence*
    - 5-7 November 2005, Tozeur, Tunisia*
  - Member of the organizing committee of international conference SCS'2004*
  - International Conference on Signals, Circuits & Systems*
    - 18-21 March 2004, Monastir, Tunisia*