CURRICULUM VITAE

Name: Jaber JEMAI,
Current position: Associate Professor, Dean
Date and place of birth: August 04th, 1976 at Kef - Tunisia
Marital status: Married, two daughters (☺), Tunisian citizen
Professional addresses:

- College of Computer Studies. AMA International University Bahrain, Manama, Kingdom of Bahrain.

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Education

May 2007 **Ph.D. in Computer Science**,
High Institute of Management, University of Tunis
Thesis title: *Neural Models for the Real Time Vehicle Routing Problem*
Supervisor: Pr. Khaled MELLOULI
Merit: Very honorable

July 2001 **M. Sc. in Systems Modeling and Applied Computing**,
High Institute of Management, University of Tunis
Master project title: *A Tabu Search Heuristic for a Real Life Vehicle Routing Problem*
Supervisor: Pr. Khaled MELLOULI
Merit: Very honorable

June 1999 **B. Sc. in Computer and Information Systems**,
High Institute of Management, University of Tunis

June 1995 **Baccalaureate in Techniques**, Technical School of El Kef, Tunisia

Academic experience

Since June 2014: Associate Professor, Dean
College of Computer Studies, AMA International University Bahrain. Salmabad, Kingdom of Bahrain.

September 2010- June 2014: Assistant Professor
Department of Information Systems, College of Computer and information Sciences, Imam Mohammed Ibn Saud Islamic University in Riyadh, Saudi Arabia.

2004-2010: Assistant Professor
Department of Software Engineering and Information Systems, High Institute of Computer Science, University of Tunis El Manar.

2002-2004: Lecturer
Department of Computer Science, High Institute of Management, University of Tunis.

2002-2003: Teaching Assistant
Department of Computer Science, High Institute of Management, University of Tunis.

Administrative and leadership experience

@CCIS.ImamUniversity

- Coordinator of the Information Systems department in the ABET accreditation committee (Writing the SSR, Organizing Quality Workshops for the IS faculty, Participation if the Definition of the IS program assessment KPIs - CILOs).
- Member of the Strategic Plan Revision Committee of the CCIS College (SWOT Analysis).
- Leader of the graduation project committees for several sessions.
- Member of the curriculum Committee of the IS Dept (revision of the curriculum according to ACM standards).
- Member of the Students Academic Advice of the IS Dept.

@CCS.AMAIUB

- Dean of the College of Computer Studies:
  - ✓ Servicing 350 students in the College.
  - ✓ More than 1500 students from business and engineering colleges.
- Preparation of College Improvement Plans (Functional Plan, Faculty Development Plan, Teaching Learning Plan, Quality Improvement Plan).
- Handling College communications with the Ministry of Education.
- Preparing and Implement the college actions for NAQQAET Accreditation.
- Managing a staff of 20 faculty members with different ranks and from different cultures.
- Supporting and advising the University top management in strategic projects and orientations.
- Chair of the Curriculum Committee (Consolidation of CRR and CBR, Course SPECS revision).
- Represent the University in local and international fairs and exhibitions.

Research interests

Research field: Evolutionary algorithms, Multi-Objective Optimization, Heuristics – Metaheuristics – Hyperheuristics, Computational Intelligence, Machine learning.

Applications:

- Supply Chain Management and Logistics
- Vehicle Routing Problem and variants
- Scheduling problems
- Forecasting and classification

Representation and solving techniques:

- Genetic Algorithms, Tabu Search, Simulated Annealing, Ant Systems, PSO.
- Multi-objective GA: NSGA2, IBEA, SPEA2, …
- Linear programming,
- Artificial Neural Networks,
- Fuzzy Logic.

Publications

International refereed journals

1. Jaber Jemai *(2014),* "A solving approach for the dynamic vehicle routing problem based on Hierarchical SOM", *International Journal of Computational Intelligence and Applications, Vol. 13, No. 04, 1450025 (2014). DOI:* 10.1142/S1469026814500254
2. Jaber Jemai, Manel Zekri, Khaled Mellouli *(2012)* "NSGA-II Algorithm for the Green Vehicle Routing Problem". *In J.-K. Hao and M. Middendorf (Eds.): EvoCOP 2012, LNCS 7245, pp. 37--48. Springer, Heidelberg.*
3. Jaber Jemai, Khaled Mellouli *(2008),* "A Neural-Tabu Search Heuristic for the Real Time Vehicle Routing Problem", *Journal of Mathematical Modelling and Algorithms, Volume 7, pp. 161-176.*

International peer reviewed conferences (with proceedings)

1. Jaber Jemai, Manel Zekri, Khaled Mellouli *(2012)* "Multi Objective Genetic Algorithms for the Green Vehicle Routing Problem". Middle Eastern Simulation and Modeling conference MESM'2015, March 2-4 , 2015, Manama – Kingdom of Bahrain
2. Jaber JEMAI, Marouen Chaieb, Khaled MELLOULI (2013), "The Home Health Care Scheduling Problem: a Modeling and Solving Issue ", *IEEE - ICMSAO'13, April 28-30, Tunisia. DOI:* 10.1109/ICMSAO.2013.6552619
3. Jaber JEMAI , Khaled MELLOULI (2006), " A Convergent Hopfield Type Neural Network for the Traveling Salesman Problem", *International Joint Conference On Neural Networks IJCNN'O6, World Congress on Computational Intelligence WCCI 2006.*
4. Jaber JEMAI, Khaled MELLOULI (2001), "A Tabu Search Heuristic for a Real Life Vehicle Routing Problem ", *Japan-Tunisia Workshop on Informatics (JTWIN 2001), pp26 – pp31, Oct. 2001.*

Notional conferences

1. *Boutheina ZOUAOUI, Jaber JEMAI, Abdelkader El-KAMEL, Khaled MELLOULI (2010), "Maritime logistics modelling: The Tunisian Navigation Company Case",* Third International Conference on Information Systems, Logistics and Supply Chain, April 14-16 -2010, Casablanca Marocco.
2. Jaber JEMAI, Khaled MELLOULI (2008), "A Fuzzy Tabu Search Heuristic for the Uncertain Vehicle Routing Problem", *Conference META, Hammamet Tunisia, 29-31 October 2008.*
3. Jaber JEMAI, Khaled MELLOULI (2006), " A Neural Tabu Search Heuristic for the Real Time Vehicle Routing Problem", *Conference META, Hammamet Tunisia, 2-4 November 2006.*
4. Jaber JEMAI, Khaled MELLOULI (2006), " Learning Real Time Routing Decisions", *Tunisian Management Science Society Annual Conference, Hammamet Tunisia, Mai 2006.*
5. Jaber JEMAI, Khaled MELLOULI (2004), " Un Système Intégré de Simulation Optimisation pour le Problème de tournées de Véhicules Temps Réel ", *Francoro 4, Fribourg – Germany 16-20 August 2004.*
6. Jaber JEMAI, Khaled MELLOULI (2003), "A Reactive Clustering Routing Heuristic for the Assistants Dispatching Problem", *The Euro/Informs Joint International Meeting Istanbul 5-10 July 2003.*

7. Jaber JEMAI, Khaled MELLOULI (2002), "Solving the Assistants Dispatching Problem by Tabu Search", *International Conference on Optimization, Lambrecht – Germany 17-22 February 2002.*

Ongoing work

1. Marouene Chaieb, "Hierarchical Optimization framework: application to the home Healthcare scheduling Problem". *PhD Project cosupervised by: Dr.Jaber Jemai and Prof. Khaled Mellouli.*

2. Jaber Jemai, Rauf Baiq "On evolving self organizing maps for the dynamic vehicle routing problem". *Research project funded by Imam University.*

References

Prof. Dr. Khaled Mellouli
Full Professor, IHEC Carthage,
University of Tunis, Tunisia.
Email: khaled.mellouli@ihec.rnu.tn

Prof. Dr. Talbi El-Ghazali
Full Professor, University of Lille, Lille, France.
Email: el-ghazali.talbi@lifl.fr

Prof. Dr. Rauf Baiq
Full Professor, Imam Muhammed Ibn Saud University, KSA.
Email: rauf.baig@nu.edu.pk

Dr. Boutheina ben Yaghlane
Associate Professor, IHEC Carthage,
University of Tunis, Tunisia.
Email: Boutheina.yaghlane@ihec.rnu.tn

Funded research projects

- Design and implementation of software for solving the assistants dispatching problem in AGIL. SNDP: Petroleum Distribution Company in Tunisia.
  Budget: 30.000 TND **Date:** September 2001 **Role:** Master student
- On evolving Self Organizing Maps for the Dynamic VRP, Imam Muhammed Ibn Saud University,
  Budget: 146.000 SAR **Date:** October 2011 **Role:** Principal Investigator

Affiliations

- Since October 2010: Member of the accreditation committee of the information system Department in the college of computer and information sciences. My role is to update the IS curriculum to meet the ACM and ABET requirements.
- Since 2003: Laboratory of Operations Research, Decision and Process Control - LARODEC, High Institute of Management of Tunis
- Since 1998 : Tunisian Management Science Society (TMSS)

Refereeing

1. Neural Networks (1 paper)
2. International Journal of Operations and Quantitative Management (1 paper)
3. International Journal of Neural Systems (1 paper)
4. OR Spectrum (1 paper)
5. International Joint Conference on Neural Networks IJCNN'07, 2009, 2011, 2012, 2014 (5 papers)
6. European Conferences on Symbolic and Quantitative Approaches to Reasoning with Uncertainty ECSQUARU 2007 (1 paper)

Awards and scholarships

2007- High Level Scientific Stay Scholarship – French Ministry for Foreign Affairs

2001- Prize of the best master postgraduate student – ISG Tunis

Supervision

Masters

- Marouene Chaieb (June 2012), The home healthcare problem: a modeling and solving issue. Co-supervised with Prof. Khaled MELLOULI.
- Manel Zekri (July 2011), Bi-objective optimization for the Green Vehicle Routing Problem. Co-supervised with Prof. Khaled MELLOULI.

Engineers

- Software Engineering and Information Systems (6 projects)
- Statistics and Data analysis (1 project)

Technicians

- Communication and Information Systems (14 projects)

Visiting positions

- May 2007: LG2IA Laboratory, University of Artois. Lille, France
- January 2002: PRISM Laboratory, Université de Versailles Saint Quentin en Yvelines, Paris, France
- October 2000: PRISM Laboratory, Université de Versailles Saint Quentin en Yvelines, Paris, France

Certification

Red Hat Certified Engineer (RHCE):

Certification N°: 807202838005926 Date : 26 July 2002.

Taught courses

Postgraduate courses (Master in Information systems):

1. Advanced Systems modeling and design
2. Data warehousing and data mining
3. Research methods
4. Management information systems

Undergraduate courses:

1. System analysis and Design with UML2
2. Web programming (XHTML, CSS, JavaScript, PHP)
3. Software Engineering
4. Databases and Database Management Systems (Oracle, MySQL, SQL Server)
5. Computer Programming (C/C++, Java, VB, etc.)
6. Data Structures
7. Visual Programming with .Net.
8. Artificial Intelligence
9. Operating Systems: Level 1 and Level 2

Mathematical Modeling and Computing tools

Modeling languages:

1. Advanced Mathematical Programming Language AMPL,
2. Xpress-Mosel language,
3. MathProg Language,

4. ILOG -OPL.

Mathematical Programming languages: Matlab

Mathematical Programs Solvers:

1. Paradiseo (MO and EOMO)
2. Xpress
3. Cplex
4. Lindo,
5. GNU Linear Programming Kit GLPK,

Mathematical Modeling and Computing tools

- **Programming languages**: C/C++, .NET , Java, Visual Basic, PL-SQL.
- **Web programming:** XHTML, HTML5, CSS, JavaScript, PhP.
- **Design Method**s: Object Oriented Modeling in UML, MERISE.
- **Data Bases Management Systems** : Oracle, Access, MySQL, Postgres SQL.
- **Operating Systems:** Windows 98, 2000, NT, XP, Unix , Linux (certified RHCE), Solaris.
- **Other Office tools :** Front Page, Word, Excel, Power Point

Languages

English: Fluent **French:** Fluent **Arabic:** Native