Curriculum Vitae

Hela MASRI

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Date of birthday: 07 April 1984
Nationality: Tunisian

Education

2008-2010 : Master of Science MSc in Business Computer Science at « Institut superieur de gestion de Tunis »- Tunisia

2006-2007 : Bachelor of Science BSc in Computer Science applied to management at « Institut superieur de gestion de Tunis »- Tunisia [with first class honours].

2003-2004 : Baccalauréat on Maths at Secondary school of tahar sfar Mahdia- Tunisia

Teaching Experience

2009-2010: & 2010-2011 & 2011-2012

Assistant teacher at the « institut supérieur de gestion of Tunis », Computer Science Department

- « Algorithms and Programming I & II » (Level 1).
- « Programming Workshop » » (Level 1).

Research

2007-2009 : Master Dissertation: Generating maximal efficient faces in multiobjective linear programming problems. (Discussed on 10-07-2009. Mark:18/20).

Since 2010 : PhD student at LARODEC (Laboratoire de Recherche Opérationnelle, de Décision et de control de processus). Thesis title: Towards efficient information exchange in distributed heterogeneous systems

May-June : 2009 Visiting research student in the business school of uvic.

September : 2010-January 2011 Visiting research student in the business school of uvic.

Publications

Journal papers:

Masri, H., Krichen, S. & **Guitouni, A.** (Forthcoming). Adjacency based method for generating maximal efficient faces in multiobjective linear programming. *Journal of Applied Mathematical Modelling.*

Masri, H., Krichen, S. & **Guitouni, A.** (Forthcoming). Generating efficient faces for multiobjective linear programming problems. *International Journal of Operational Research.*

International Conferences:

H.masri, A.Guitouni , S.Krichen, Efficient Information Exchange Strategy in Fusion Networks, 15th International Conference on Information Fusion, Singapore, 2012.

H.masri, S.Krichen, A.Guitouni, An ant colony optimization metaheuristic for solving bi-objective multi-sources multicommodity communication flow problem, Wireless and Mobile Networking Conference (WMNC), 4th Joint IFIP, Toulouse, 2011.

H.masri, S.Krichen, A.Guitouni , A Genetic Algorithm for a Joint Routing and Scheduling Problem in Heterogeneous Networks. 6th International ICST Conference on Bio-Inspired Models of Network, Information, and Computing Systems. York, 2011.

Workshops and communications

H. Masri, S. Krichen, A. Guitouni, 'Towards Efficient Information Exchange in Distributed Systems', International Conference on Metaheuristics and Nature Inspired Computing. Djerba – Tunisia, October 2010.

H. Masri, S. Krichen, A. Guitouni ,' Information routing in distributed heterogeneous systems', Workshop: Adaptive Distributed Decision Support Systems: information fusion, resource management and decision analysis. University of Victoria - Victoria BC, November 2010.

S. Krichen, H. Masri, F. Ben Abdelaziz, 'Generating maximal efficient faces in multiobjective linear programming problems', MITACS Workshop on Decision Support, Information Fusion and Sensor Networks, Calgary – Canada , June 2009

Current Interests:

- Multi-objective optimization
- Network management algorithms.
- Information theory
- Bio-inspired computing: Artificial Immune Systems, Genetic Algorithms and
- Machine Learning.
- Data mining

Main Realized Projects and internships

June/July : 2005

Design and Development and of an application for « vision Clinic» for managing the patients and accounting information. The programming language is Visual Basic et the adopted database system is Access.

January-May : 2007

Design and Development and of an application "integrated electronic banking solution" for the company« MIT Consulting ». This solution consists in a distributed application managed by a centralized concentrator which enables the communication between different points of payment terminals. Different network architectures are designed.

The programming language is C++ and the conception approach is the automated finite state.

This project was part of last year of the bachelor degree. It was validated with a mark 18/20.

15th September 2010/15[15] January 2011 :

Research internship at MacDonald, Dettwiler and Associates Ltd (MDA) for 4 months. The topic of this research is about information routing in distributed systems. As a simulation environment, I used Inform Lab which is a testbed developed by MDA, enabling the testing of different distributed information fusion and dynamic resource management algorithms. It contains real instances of surveillance vignettes. The fulfilled goals of this internship are:

1) Developing a validation use case, 2) Gathering the empirical data for the model, and 3) Validating the proposed model and potentially the solver (meta-heuristic). An initial implementation of the optimization algorithm is integrated and tested in INFORM Lab.

Computer Literacy Skill

Programming languages:	Java, C++, C, Pascal, Prolog, Visual Basic, JavaScript, XML, Cobol.
Software Engineering	Merise, Unified Modeling Language, Unified Process, Rational Rose, AMC Design
Programming tools	Matlab 6.5, Eclipse Helios, Microsoft Visual studio 6.0, Jbuilder5, , Developper2000, Rational rose 2000, AMC Designor.
DataBase:	Oracle, MySQL.
Environments:	MSDOS, Windows 98-XP-7, Linux.
Miscellaneous :	Data mining tools : clementine , weka 3.4 Optimization solver: Lingo, Cplex

Language

- Arabic (Mother tongue)
- French (Good spoken and written)
- English (Good spoken and written)