MOHAMED TOUNSI

PERSONAL INFORMATION

email	mohamed.tounsi@fsegs.rnu.tn
website	http://tounsi.voila.net
fax	(00 216) 74 862 432
office phone	(00 216) 74 862 233

ACTUAL POSITION

2013–Present

Assistant Professor of Computer Science

Adress: Higher Institute of Computer Science and Multimedia, Sfax. Pôle technologique, Route de Tunis Km 10 B.P. 242, 3021 Sfax. www.isimsf.rnu.tn

2013–Present

Research Scientist

Adress: Research on Development and Control of Distributed Applications (ReDCAD). National School of Engineering, University of Sfax, Tunisia. www.redcad.org

Research interests: distributed systems, distributed algorithms, Mobile networks, Graph transformations for designing algorithms and Formal methods.

EDUCATION

2012

Doctor of Philosophy in Computer Science

Adress:University of Bordeaux 1, Bordeaux Computer Science Research Laboratory. 351, cours de la Libration F-33405 Talence, France. www.labri.fr

Title: Proving Correctness of Distributed Algorithms Using Refinement Technique.

Description: Distributed algorithms are considered to be very complex to design and to prove; the PHD contributes to the design of correct by construction distributed algorithms. The main idea relies upon the development of distributed algorithms following a top/down approach, which is clearly well known in earlier works of Dijkstra, and to use refinement for proving the correctness of the resulting algorithms.

2007

Master of Science in Computer Science

Adress: Faculty of Economic Sciences and Management of Sfax. Route aéroport Km4 P14, Sfax. Tunisia www.fsegs.rnu.tn

Title: Mobile Agents Security: Formal Approach for Preventing Attacks.

Description: One of the most important issues in mobile agent systems is the security aspect. For the purpose of ensuring security, we provide a formal model for secure mobile agent system. This model supports the specification of numerous security policy types which control the behavior of system entities and protect them, as far as possible, from attacks that may occur.

2005

Bachelor's Degree in Computer science applied to management

Adress: Faculty of Economic Sciences and Management of Sfax. Route aéroport Km4 P14, Sfax. Tunisia www.fsegs.rnu.tn

Title: design and implementation of an e-learning platform

Description: In this work we have proposed an e-learning platform. We focused on the evaluation process. Three actors are considered: teachers, students and administrators. The aim of this work is to simplify the management and the interactivity of the evaluation over the web.

PUBLICATIONS

Wetice, 2014 — Maha Boussabbeh, Mohamed Tounsi, Ahmed Hadj Kacem, Mohamed Mosbah: Enhancing Proofs of Local Computations through Formal Event-B Modularization. 2014 IEEE 23st International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises, pages 50-55, 2014.

Wetice, 2013 — Vincent Filou, Mohamed Mosbah, and Mohamed Tounsi. Towards proved distributed algorithms through refinement, composition and local computations. 2012 IEEE 21st International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises, pages 353-358, 2013.

Wetice, 2013 — Mohamed Tounsi, Mohamed Mosbah, and Dominique Mery. From event-b specifications to programs for distributed algorithms. 2012 IEEE 21st International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises, pages 104-109, 2013.

FM, 2011 — Dominique Méry, Mohamed Mosbah, and Mohamed Tounsi. Refinement-based verification of local synchronization algorithms. In Michael Butler and Wolfram Schulte, editors, FM 2011: Formal Methods, volume 6664 of Lecture Notes in Computer Science, pages 338-352. Springer Berlin / Heidelberg, Limerick Irlande, 06 2011.

ECEASST, 2010 — Mohamed Tounsi, Mohamed Mosbah, and Dominique Méry. Proving distributed algorithms by combining refinement and local computations. ECEASST, 35, 2010.

IM FMT, 2009 — Mohamed Tounsi, Ahmed Hadj Kacem, Mohamed Mosbah, and Dominique Méry. A refinement approach for proving distributed algorithms : Examples of spanning tree problems. In Integration of Model-based Formal Methods and Tools - IM FMT'2009 - in IFM2009, Dusseldorf Allemagne, 02 2009.

SECUREWARE, 2007 — Monia Loulou, Mohamed Tounsi, Ahmed Hadj Kacem, Mohamed Jmaiel, and Mohamed Mosbah. A formal approach to prevent attacks on mobile agent systems. In In Proceedings of the IEEE International Conference on Emerging Security Information, Systems, and Technologies, pages 4247, Valencia, Spain, October 14-20 2007.

LANGUAGES

Native — Arabic

Very good — French, English

Novice — Spanish

COMPUTER SKILLS

Programming — pascal, C, C++, Java, visual basic, prolog and php

Formal language — Z, B, Event-B, prism et ANSI/ISO C Specification Langage (ACSL)

Formal Softwares — Z-EVES, Rodin, atelier-B, prism, why and frama-c

Environment — Windows, MS-DOS and Linux

Others — UML, AUML, HTML, XML, CSS, MySql, merise, Data bases, Microsoft office, open office...

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