

Dr. Adnane Ghannem

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LinkedIn: https://www.linkedin.com/feed/

RG: https://www.researchgate.net/profile/Adnane_Ghannem

ORCOD iD: https://orcid.org/0000-0002-1320-899X

WebSite: https://sites.google.com/a/etsmtl.net/adnane-ghannem/curriculum-vitae

EDUCATION

University of Quebec- ETS, Montreal, Quebec, Canada

PhD in Software Engineering

2011-2014

Thesis Title: Example-Based Model Refactoring Using Heuristic Search

University of Quebec in Three Rivers, Quebec, Canada

Master in Applied Mathematics and Computer Science

2003-2006

Thesis title: Web-based Applications Testing: A Control Flow Model-based Approach

Higher Institute of Management of Tunis-Tunisia

Bachelor in Applied Management and Computer Sciences

1998-2002

Graduation project title: Computerized Cylinder Coating

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| CISCO CERTIFICATION – CCNA 1 | 2019 | | |
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| CISCO CERTIFICATION – CCNA 2 | 2019 | | |
| CISCO CERTIFICATION – CCNA 3 | 2019 | | |
| AWARDS | | | |

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| ۰ | Excellent academic records of University of Quebec: ÉTS | 2015 |
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| ٠ | Excellent academic records of University of Quebec: ÉTS | 2014 |
| • | Career Advancement of University of Quebec : ÉTS | 2014 |
| • | International mobility grant of University of Quebec : ÉTS | 2012 |
| ٠ | Distinguished poster Award | 2005 |
| ٠ | Scholarship in Canada offered by the Ministry of Higher Education in Tunisia | 2003 |

TEACHING EXPERIENCE

ABMMC, Doha, QATAR

Assistant Professor – IT and Computer Sciences

2018

Plan, prepare and deliver lesson plans and instructional materials that facilitate active learning.

- Develops schemes of work, lesson plans and tests that are in accordance with established procedures.
- Instruct and monitor students in the use of learning materials and equipment.
- Use relevant technology to support and differentiate instruction• Assign and grade class work, homework, tests and assignments.

University of Michigan, Detroit, USA

Teaching Assistant - Computer Sciences

2014

Plan, prepare and deliver lesson plans and instructional materials that facilitate active learning.

- Use relevant technology to support and differentiate instruction
- Assign and grade class work, homework, tests and assignments.

University of Quebec, Montreal, Canada

Teaching Assistant - Computer Sciences

2013

Plan, prepare and deliver lesson plans and instructional materials that facilitate active learning.

- Use relevant technology to support and differentiate instruction
- Assign and grade class work, homework, tests and assignments.

University of Montreal, Montreal, Canada

Teaching Assistant - Computer Sciences

2007

Plan, prepare and deliver lesson plans and instructional materials that facilitate active learning.

- Use relevant technology to support and differentiate instruction
- Assign and grade class work, homework, tests and assignments.

University of Quebec in Three Rivers, Quebec, Canada

Teaching Assistant - Computer Sciences

2003

Plan, prepare and deliver lesson plans and instructional materials that facilitate active learning.

- Use relevant technology to support and differentiate instruction
- Assign and grade class work, homework, tests and assignments.

RELATED EXPERIENCE

Ahmed Bin Mohammed Military College, Doha, Qatar

Postdoc 2015-2018

Postdoctoral Researcher on the project entitled: Design Requirements: Capability-Driven Requirements Engineering February 2018 with

Application on I-Doha for the 2022 World Cup.

SBSE lab , Detroit, USA

Research Coordinator 2013-2014

Develop a tool to extract refactoring between two versions of program based on abstract syntax tree (AST).

Instruct and monitor students in their research projects

McDonnell Douglas SE Lab at University of Missouri-USA , Missouri, USA

Research specialist 2011-2012

Develop an algorithm that support model refactoring by applying heuristics (GA and Interactive Genetic Algorithm).

Benchmark Consulting Canada, Montreal, Canada

Research specialist 2010-2011

Reconstructing architectural views from legacy system using KDM (Knowledge Discovery Meta-model)

GEODES laboratory lab at University of Montreal-CANADA

Research specialist 2006-2007

Develop an approach that supports software analysis, phylogeny and

PUBLICATIONS AND PAPERS

- Ghannem, A., Mohammed S. Hamdi, Kessentini, M., & Hany Ammar, "Requirements Traceability Recovery Using Using Heuristic search: A comparative Study", ACM Transactions on Software Engineering and Methodology (TOSEM), 2023 (under review).
- Hamdi, M. S., Ghannem Adnane and Kessentini Marouane. "Requirements traceability recovery for the purpose of software reuse: an interactive genetic algorithm approach."
 Innovations in Systems and Software Engineering, 2022
- Ghannem, A., Mohammed S. Hamdi, Kessentini, M., & Hany Ammar, "Knowledge Incorporation In Requirements Traceability Recovery". 11th ICISA: International Conference on Information Science and Applications, 2020.
- Soui Makram, Abed Mourad, Ghannem, A. and Daouas Karim, "Adaptive Tutoring System based on Fuzzy Logic", Int. J. Advanced Intelligence Paradigms, 2020.
- Mohamed Salah Hamdi, Adnane Ghannem, Pericles Loucopoulos, Evangelia Kavakli and Hany Ammar, STAD: Intelligent Parking Management by Means of Capability Oriented Requirements Engineering, IEA/AIE-2019.
- Ghannem, A., Kessentini, M., Mohammed S. Hamdi & El_Boussaidi G., Model refactoring by Example: A Multi-Objective Search Based Software Engineering Approach. Journal of Software: Evolution and Process (JSEP), 2018.
- Ghannem, A., et al. (2015). "On the use of design defect examples to detect model refactoring opportunities." **Software Quality Journal (SQJ)**: 1-19. 2015.
- Ghannem, A., El_Boussaidi G., & Kessentini, M. Model Refactoring Using Examples: A Search-based Approach. Journal of Software: Evolution and Process (JSEP), John Wliey & Sons, Ltd, DOI 10.1002/smr.1644, 2014.
- Ghannem, A., et al. (2015). "On the use of design defect examples to detect model refactoring opportunities." **Software Quality Journal (SQJ)**: 1-19. 2015.
- Ghannem, A., Mohamed Salah Hamdi, Marouane Kessentini and Hany Ammar, Search-Based Requirements Traceability Recovery: A Multi-Objective Approach, in Proceedings in the IEEE Congress on Evolutionary Computation (CEC2017), DOI: 10.1109/CEC.2017.7969440, Donostia - San Sebastián, Spain.
- Ghannem, A., Mohamed Salah Hamdi, Hany Ammar and Makram Soui, A Systematic Classification of Requirements Engineering Approaches for Adaptive Systems, in Proceedings in the Proceedings of the Second International Conference on Internet of things, Data and Cloud Computing (ICC) 2017. Cambridge, United Kingdom — March 22 - 23, 2017
- Ghannem, A., Mohamed Salah Hamdi, Makram Soui and Hany Ammar, An Adaptive I-Parking Application: An Ontology-Based Approach, in Proceedings in the Future Technologies Conference (FTC), DOI: 10.1109/FTC.2016.7821692, San Francisco, CA, USA, 6-7 Dec. 2016.
- Ghannem A., Hamdi M.S., Kessentini M., Ammar H.H. (2018) Search-Based Requirements
 Traceability Recovery. In: Bi Y., Kapoor S., Bhatia R. (eds) Proceedings of SAI Intelligent
 Systems Conference (IntelliSys) 2016. Lecture Notes in Networks and Systems, vol 15.
 Springer, Cham
- Ghannem, A., Mohamed Salah Hamdi, Walid AbdelMoez and Hany Ammar, A Context Model Development Process For Smart City Operations, in Proceedings in the 10th International Conference on Service Operations and Logistics, and Informaticsic Algorithm. (SOLI'15), Hammamet, Tunisia, November 2015.

- Ghannem, A., El_Boussaidi G., & Kessentini, M. Example-Based Model refactoring Using Multi-Objective Optimization, in Proceedings in the 1st North America Search Based Software Engineering (NasBASE), 2015, Detroit, USA February 2015.
- Ghannem, A., El_Boussaidi G., & Kessentini, M. Model Refactoring Using Interactive Genetic Algorithm, in Proceedings in the 5th International Symposium on Search-based Software Engineering (SSBSE) 2013, St. Petersburg, Russie, août 2013.
- Ghannem, A., Kessentini, M. & El_Boussaidi G., Detecting Model Refactoring Opportunities Using Heuristic Search. Actes de The 21th Annual International Conference on Computer Science and Software Engineering, (CASCON), USA, novembre 2011.
- Ghannem, A., Salima Hassaine, Yann-Gaël Guéhéneuc, & Sylvie Hamel. L'analyse de logiciels, phylogénie et histoire. In Mireille Blay-Fornarino, editor, Actes du 14e Colloque Langages et Modèles à Objets (LMO), Montréal Canada, mars 2008.
- Ghannem, A., and Badri L., A tool supporting Web_based applications testing: a control flow model based approach. Actes de The IADIS International Conference on WWW/Internet, Espagne, novembre 2006, p156.
- Ghannem A., Mohamed Salah Hamdi & Hany Ammar, Towards an Ontology-based Context Model for Smart City Operations: I-Parking as an Example, IEEE International Smart Cities Conference (ISC2), Guadalajara, 25-28 October 2015.
- Ghannem A. and Badri L., Test des applications web: Modélisation et génération des séquences de test basées sur le contrôle. Scientific poster competition of University of Quebec in Three Rivers (UQTR), Canada, April 2005. (Distinguished poster Award).

| INDSUTRIAL EXPERIENCE |
|-----------------------------------|
| Engineer at Videotron Inc, Canada |

2007-2011

Participate in the design of "HFC Modernization of Montreal Network" Project in Small-world GE.

Engineer at Hannecard Inc, Tunisia

2002-2003

Design and develop the software (REC-AO) for production management, inventory, payroll, HR

Software developer at Maersk evergreen Inc- Tunisia

2001-2002

- Develop software modules for inventory management and accounting for various clients.
- Manage, install and repair bugs in the network.

Software developer at Maersk evergreen Inc- Tunisia

2000-2001

 \bullet Design and implement a Framework which to manipulate a database used in the management system of transfers

Software developer at Air Liquid Inc- Tunisia

1999-2000

• Design and develop some management modules.

| Organizing committee of a research workshop at ABMMC. | 2017 |
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| Organizing committee of a research workshop at ABMMC. | 2015 |
| Program committee of the 1st Edition of the North American Search Based Software Engineering Symposium (NasBase2015). | 2015 |
| Program committee of the 14th conference of Language and Object Model | 2008 |
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LANGUAGES

- Arabic Native
- English Advanced

| Journal of Software: Evolution and Process IEEE Transactions on Emerging Topics in Computational Intelligence Co-founder & member of Paper Writing Help Service (SARA)- CANADA 2014 | French - Fluent | |
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| Journal of Software: Evolution and Process IEEE Transactions on Emerging Topics in Computational Intelligence Co-founder & member of Paper Writing Help Service (SARA)- CANADA MENTORING Journal of Software: Evolution and Process IEEE Transactions on Emerging Topics in Computational Intelligence Co-founder & member of Paper Writing Help Service (SARA)- CANADA OTHER ACTIVITIES Volunteering Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA 2007 Certificate- Workshop Statistics from UQTR- CANADA 2008 | SCIENTIFIC REVIEWER | |
| Co-founder & member of Paper Writing Help Service (SARA)- CANADA MENTORING Journal of Software: Evolution and Process IEEE Transactions on Emerging Topics in Computational Intelligence Co-founder & member of Paper Writing Help Service (SARA)- CANADA OTHER ACTIVITIES Volunteering Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA 2004 Certificate- Workshop Statistics from UQTR- CANADA 2004 2007 Certificate- Workshop Statistics from UQTR- CANADA 2006 | Journal of Software: Evolution and Process | 2014 |
| Co-founder & member of Paper Writing Help Service (SARA)- CANADA MENTORING Journal of Software: Evolution and Process IEEE Transactions on Emerging Topics in Computational Intelligence Co-founder & member of Paper Writing Help Service (SARA)- CANADA OTHER ACTIVITIES Volunteering Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA 2007 Certificate- Workshop Statistics from UQTR- CANADA 2004 | IEEE Transactions on Emerging Topics in Computational Intelligence | 2016 |
| Journal of Software: Evolution and Process IEEE Transactions on Emerging Topics in Computational Intelligence Co-founder & member of Paper Writing Help Service (SARA)- CANADA OTHER ACTIVITIES Volunteering Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA Certificate- Workshop Statistics from UQTR- CANADA 2004 | Co-founder & member of Paper Writing Help Service (SARA)- CANADA | 2014 |
| IEEE Transactions on Emerging Topics in Computational Intelligence Co-founder & member of Paper Writing Help Service (SARA)- CANADA OTHER ACTIVITIES Volunteering Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA Certificate- Workshop Statistics from UQTR- CANADA 2004 | MENTORING | |
| Co-founder & member of Paper Writing Help Service (SARA)- CANADA OTHER ACTIVITIES Volunteering Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA Certificate- Workshop Statistics from UQTR- CANADA 2004 | Journal of Software: Evolution and Process | 2014 |
| Co-founder & member of Paper Writing Help Service (SARA)- CANADA OTHER ACTIVITIES Volunteering Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA 2004 2007 Certificate- Workshop Statistics from UQTR- CANADA 2004 | IEEE Transactions on Emerging Topics in Computational Intelligence | 2016 |
| Volunteering Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA Certificate- Workshop Statistics from UQTR- CANADA 2004 | | 2014 |
| Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA Certificate- Workshop Statistics from UQTR- CANADA 2004 | OTHER ACTIVITIES | |
| Executive member at North American Tunisian Engineers (NATEG)-CANADA General secretary of Tunisian Students Association at UQTR. Executive member at Info+ international Club in Tunisia Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA Certificate- Workshop Statistics from UQTR- CANADA 2004 | Volunteering | 2012 |
| Training and internships Certificate- Workshop Bio-informatics from University of Montreal- CANADA Certificate- Workshop Statistics from UQTR- CANADA Certificate- Workshop Statistics from UQTR- CANADA 2004 | Executive member at North American Tunisian Engineers (NATEG)-CANADA | |
| Training and internships Certificate- Leadership with BestBuy- CANADA Certificate- Workshop Bio-informatics from University of Montreal- CANADA Certificate- Workshop Statistics from UQTR- CANADA 2004 | General secretary of Tunisian Students Association at UQTR. | |
| Certificate- Leadership with BestBuy- CANADA 2008 Certificate- Workshop Bio-informatics from University of Montreal- CANADA 2007 Certificate- Workshop Statistics from UQTR- CANADA 2004 | Executive member at Info+ international Club in Tunisia | 2000 |
| Certificate- Workshop Bio-informatics from University of Montreal- CANADA 2007 Certificate- Workshop Statistics from UQTR- CANADA 2004 | · · · · · · · · · · · · · · · · · · · | |
| Certificate- Workshop Statistics from UQTR- CANADA 2004 | · | |
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