

PhD in Computer Science

Abderrazak DAUDI

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EDUCATION

- 2013–2016 **PhD in Computer Science**, University of Montpellier, France & University Mohammed V of Rabat, Morocco.
Thesis title: Learning and Using Structures for Constraint Acquisition.
Advisors: Christian Bessiere & El Houssine Bouyakhf.
Track: Artificial Intelligence.
- 2008–2010 **MSc in Computer Science**, University Mohammed V of Rabat, Morocco.
- 2005–2008 **BSc in Physics**, University Mohammed V of Rabat, Morocco.

PROFESSIONAL EXPERIENCE

- 2017–2018 **Associate Professor (ATER)**, INSA de Lyon, University of Lyon, France.
- 2016–2017 **Associate Professor (ATER)**, Faculty of Science and Technology, University of Jean Monnet, Saint-Étienne, France.
- 2013–2016 **PhD Student** at CNRS/LIRMM Laboratory, University of Montpellier.
Thesis Title: Learning and Using Structures for Constraint Acquisition.
Research Project: Constraint Acquisition is a new field that lies on the conjunction of Machine Learning and Constraint Programming. It aims at assisting novices in modeling their problems as a constraint network. The propose of my thesis was to make constraint acquisition more efficient in practice by using new approaches based on the structure of the problem.
Advisors: Christian Bessiere & El Houssine Bouyakhf.
- 2015–2016 **Temporary Lecturer** at Department of Computer Science, IUT of Montpellier, University of Montpellier, France.
- Apr. 2013–
Dec. 2014 **Researcher** at the European Open project ICON (www.icon-fet.eu).
ICON (Inductive Constraint Programming) is a project that integrates Constraint Programming, Data Mining and Machine Learning to build a unified intelligent framework.

2013–2014	Temporary Lecturer at Department of Computer Science, Faculty of Science, University of Montpellier, France.
2012–2013	Temporary Lecturer at Department of Computer Science, Faculty of Science, University of Mohammed V, Morocco.
Oct. 2012– Jan 2013	Visiting student researcher at LIA Laboratory, University of Avignon, France. Research project: Modelling and solving optimal placement problems in wireless sensor networks.
June 2011– Sep. 2011	Visiting student researcher at LIA Laboratory, University of Avignon, France. Research project: Development of algorithmic methods for the coverage problem in wireless sensor networks.
Jan. 2010– July 2010	Project Graduation at THALES Group & LIMIARF Laboratory, Mohammed V University of Rabat, Morocco. Project: Study, design and implementation of a simulator/optimizer of mobile communication systems deployment.

SCHOLARSHIPS & DISTINCTIONS

2016	AAAI/Al Journal Travel grant to attend IJCAI-16.
2013	AFPC Travel grant to attend JFPC-13. Averroes Fellowship , 20 months PhD Fellowship. Scholarship of Excellence from the European Commission.
2012	Best paper award at "Journées Doctorales en Systèmes d'Information, Réseaux et Télécommunication" (JDSIRT-2012), ENSIAS Rabat, Morocco.
2011	CNRST Fellowship , 3 years PhD Fellowship (Award of Excellence of thesis proposal). Scholarship of Excellence from the Moroccan government. 3th Award of excellence from University of Mohammed V.

PUBLICATIONS

1. **A. Daoudi**, B. Detienne, R. El Azouzi, I. Benelallam, and E. H. Bouyakhf. "Robust Coverage Optimization Approach in Wireless Sensor Networks" In Proceedings of International Conference on Wireless Networks and Mobile Communications, **WINCOM** 2017, November 01-04, 2017, Rabat, Morocco.
2. **A. Daoudi**, Y. Mechqrane, C. Bessiere, N. Lazaar, and E. H. Bouyakhf. "Constraint Acquisition with Recommendation Queries". In Proceedings of the 25th International Joint Conference on Artificial Intelligence (**IJCAI-16**), New York City, USA, 2016 – CORE Ranking : *A**.
3. **A. Daoudi**. "Learning and Using Structures for Constraint Acquisition". PhD thesis, Mai 2016.
4. C. Bessiere, **A. Daoudi**, E. Hebrard, G. Katsirelos, N. Lazaar, Y. Mechqrane, N. Narodytska, C. Quimper and T. Walsh. "New Approaches to Constraint Acquisition". Data Mining and Constraint Programming, Volume 10101 of the series Lecture Notes in Computer Science pp 51-76, 2016.

5. **A. Daoudi**, N. Lazaar, Y. Mechqrane, C. Bessiere, and E. H. Bouyakhf. "Detecting Types of Variables for Generalization in Constraint Acquisition". In Proceedings of the 27th IEEE International Conference on Tools with Artificial Intelligence (**ICTAI-15**), Vietri Sul Mare, Italy, 2015 – CORE Ranking : *B*.
6. C. Bessiere, R. Coletta, **A. Daoudi**, N. Lazaar, Y. Mechqrane, and E. H. Bouyakhf. "Boosting Constraint Acquisition via Generalization Queries". Proceedings of the 21st European Conference on Artificial Intelligence (**ECAI-14**), Prague, Czech Republic, pages 99-104 – CORE Ranking : *A*.
7. C. Bessiere, R. Coletta, **A. Daoudi**, N. Lazaar, Y. Mechqrane, and E. H. Bouyakhf. "Acquisition de contraintes par requêtes de généralisation". In Dixièmes Journées Francophones de Programmation par Contraintes (**JFPC'14**), Angers, France, 2014.
8. **A. Daoudi**, Y. Kerfi, I. Benelallam, and E. H. Bouyakhf. "Multi-objective Optimization Approach for Wireless Sensor Networks Deployment in Three Dimensional Environments". Journal of Electronic Systems Volume, 2(3), 127, 2012.
9. **A. Daoudi**, Y. Kerfi, I. Benelallam, and E. H. Bouyakhf. "A constraint programming approach for coverage optimization problem in WSN". In Second International Conference on Innovative Computing Technology (INTECH), (pp. 123-127). IEEE, 2012.
10. **A. Daoudi**, Y. Kerfi, I. Benelallam, and E. H. Bouyakhf. "A robust optimization deployment approach by constraint programming" JDSIRT-12, Rabat, Morocco, Mai 14-15, 2012 (**Best paper award**).

SKILLS

LANGUAGES

English	Professional working proficiency
French	Fluent
Arabic	Mother tongue
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TECHNICAL SKILLS

Programming	Java, Python, R, C, C++, Matlab, OCaml.
CP Solver	Cplex, Chocco Solver, Gecode.
Web	HTML5, CSS, PHP, Javascript, JEE(Servlet, JSP, XML, JDBC), JQuery, Bootstrap.
DB System	Oracle, MySQL, Access.
OS	Linux; Windows: XP, 7, 10.

OTHER ACTIVITIES

- Member of the French Association of Constraint Programming (AFPC).
- Participation in the animation of the 9th edition of the National Week of Science, Rabat, Morocco.
- Member of the organizing committee of the 3th and 4th National Competition of Robotics, Morocco.

- Participation in the 2th robotics competition of the Faculty of Sciences of Rabat, Morocco.
- Sports: Football, Running.

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