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Anis Boubaker

Professional Situation

Graduating Ph.D. (*submission: January 14th 2016*) and Lecturer
University of Quebec at Montreal

Dedication: Full time

Availability: January 2016

Current Research Interests

Business Process Management Business process modeling, business modeling, process analysis, business process reliability and robustness, error handling, modeling and decision support systems in BPM, business process execution (SOA).

Enterprise Architecture automatic documentation, models derivation and validation, architectural models alignment, architectural requirements elicitation support.

Model-Driven Engineering Model transformations, Metamodeling, model-consistency checking, code generation.

Software Design Software architectures, design patterns and antipatterns.

Enterprise Resource Planning Business process integration into ERPs, model based configuration.

Knowledge Engineering Ontologies design and building.

Education

2010–15 **Ph.D in computer sciences** - Submission: *January 14th 2016*
University of Quebec at Montreal (UQÀM), Canada
Thesis: A semi-automatic methodology for modeling compensation of inter-organizational business processes.

2001–03 **Masters Degree in computer sciences**
University Paris-IX Dauphine, France
One year exchange program at University of Montreal
Equivalence issued by the Ministry of Immigration and Cultural Communities (Quebec government)

1998–01 **Bachelors degree in mathematics and computer sciences**
University Paris-IX Dauphine, France

Publications with International Reviewers Committee

- [1] H. Mili, I. Benzarti, M.-j. Meurs, A. Obaid, J. Gonzales-huerta, N. Haj-Salem, A. Boubaker, A context-aware customer experience management development framework based on ontologies and computational intelligence, in: *Sentiment Analysis and Ontology Engineering: An Environment of Computational Intelligence*, Springer, 2016.
- [2] A. Boubaker, H. Mili, A. Leshob, Y. Charif, Towards Automating Business Process Compensation Scoping Logic, in: *MCETECH Conference on e-technologies, 6th International*, Springer, Montreal, Canada, 2015, pp. 20–36.
- [3] A. Leshob, H. Mili, A. Boubaker, Ontology-Driven Process Specialization, in: *MCETECH Conference on e-technologies, 6th International*, Springer, Montreal, Canada, 2015, pp. 3–19.
- [4] A. Boubaker, D. Cherif, A. Leshob, H. Mili, Value-Chain Discovery from Business Process Models, in: *The Practice of Enterprise Modeling, PoEM 2014*, Manchester, UK, 2014, pp. 26–41.
- [5] T. Gagné, R. Agouri, M. Cantinotti, A. Boubaker, K. L. Frohlich, How important are paper copies of questionnaires? Testing invitations modes when studying social inequalities in smoking among young adults., *International journal of public health* 59 (1) (2014) 207–10. doi:10.1007/s00038-013-0469-y.
URL <http://www.ncbi.nlm.nih.gov/pubmed/23604052>
- [6] A. Leshob, H. Mili, A. Boubaker, A Pattern Based Approach for Automatic Business Process Specialization, in: *2014 IEEE 38th Annual Computer Software and Applications Conference, IEEE, 2014*, pp. 59–64. doi:10.1109/COMPSAC.2014.13.
URL <http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6899201>
- [7] A. Leshob, H. Mili, A. Boubaker, REA-based Business Process Adaptation, in: *The 11th IEEE International Conference on e-Business Engineering, IEEE, Guangzhou, China, 2014*.
- [8] A. Boubaker, H. Mili, Y. Charif, A. Leshob, Methodology and Tool for Business Process Compensation Design, in: *EDOC Workshops (MRI-BP)*, Vancouver, Canada, 2013. doi:10.1109/EDOCW.2013.23.
URL <http://dx.doi.org/10.1109/EDOCW.2013.23>
- [9] A. Boubaker, H. Mili, Y. Charif, A. Leshob, Towards a Framework for Modeling Business Compensation Processes, in: *14th Working Conference on Business Process Modeling, Development, and Support (BP-MDS'13)*, Valancia (Spain), 2013. doi:10.1007/978-3-642-38484-4_11.
URL http://dx.doi.org/10.1007/978-3-642-38484-4_11
- [10] A. Boubaker, H. Mili, A. Leshob, Y. Charif, A Value-Oriented Approach to Business Process Compensation Design, in: *2nd IEEE International Conference on Information Technology and e-Services, 2012*. doi:10.1109/ICITeS.2012.6216671.
URL <http://dx.doi.org/10.1109/ICITeS.2012.6216671>
- [11] H. Mili, P. Valtchev, Y. Charif, L. Szathmary, A. Boubaker, L. Martin, E-Tourism Portal : A Case Study in Ontology-Driven Development, in: *E-Technologies: Transformation in a Connected World 5th International Conference, MCETECH 2011, 2011*, pp. 76–99. doi:10.1007/978-3-642-20862-1_6.
URL http://dx.doi.org/10.1007/978-3-642-20862-1_6

Submitted and on-going papers

- [12] R. M. Carvalho, H. Mili, J. Gonzalez-Huerta, A. Boubaker, A. Leshob, Comparing ConDec to CMMN: Towards a Common Language for Flexible Processes, in: *4th International Conference on Model-Driven Engineering and Software Development ModelWard (Submitted sept. 2015)*, Rome, Italy, 2016.

- [13] A. Boubaker, H. Mili, Value Model Inference From Imprative Business Process Models, Intelligent Systems in Accounting, Finance and Management (Submission due: Dec. 15th, 2015).
- [14] A. Boubaker, H. Mili, Semi-automatic compensation process modeling - An integrated approach, International Journal on Software and Systems Modeling SoSym (Planned submission: Feb. 2016).

Patents

- [15] D. Tanguay, A. Boubaker, and B. Hénault, “Method and system for geothermal design, analysis and installation certification,” U.S. Patent Application WO/2012/061 929, 2012.

Other Talks and presentations

- Feb 2015* **LATECE Laboratory - University of Quebec at Montreal**
Title: A data-flow analysis approach for automatic business process compensation scoping
- Feb 2014* **LATECE Laboratory - University of Quebec at Montreal**
Winner of the 2mn talk contest
- Feb 2013* **81st ACFAS Congress**
Title: Towards a methodology for modeling compensation processes of long-running inter-organizational business processes
University Laval, Quebec City, Canada
- Feb 2010* **LATECE Laboratory - University of Quebec at Montreal**
Title: On the use of the REA business ontology to discover compensation logic of business processes

Grants and Other Distinctions

- April 2015* **A letter for teaching excellency**
University of Quebec at Montreal
Computer science department.
- Sept 2013* **Best workshop paper award in service science**
Granted to the best paper amongst all conference workshops. Also received a 500\$ grant from IBM Research
IEEE EDOC Conference, Vancouver, Canada.
- 2010–11* **Grant of Excellency – 12.000\$CA**
University of Quebec at Montreal - HydroQuebec FARE Grant.
- June 2001* **Master student mobility grant – \$5,000**
Région île-de-France, France.

Teaching Experience

- 2014–today* **Lecturer**
University of Quebec at Montreal
Courses: Software Engineering: Software Design (INF5153), Java Programming for Management Sciences (INF1256).

2011–14 **Teaching Assistant**
 University of Quebec at Montreal
 Courses: Software Design (INF5153), Databases Design (INF5180) and
 Web Design (INF2005).

Academic and Social Activities

Academic Events Organization

May 2015 **6th MCETECH international conference on e-technologies**
 Chair of the workshops and tutorials, registrations and local arrangements
 Montreal, QC, Canada.

May 2015 **2nd International Workshop on Methodologies for Robustness Injection into Business Processes (MRI-BP)**
 Co-chair of the workshop, organized at the 6th MCETECH Conference
 Montreal, QC, Canada.

Sept. 2013 **1st International Workshop on Methodologies for Robustness Injection into Business Processes (MRI-BP)**
 Co-chair of the workshop, organized at the 17th IEEE EDOC Conference
 Vancouver, BC, Canada.

2013–13 **Member of the Ph.D. Academic Program Committee**
 Student Representative
 University of Quebec at Montreal, Computer Science Department.

2012–13 **IEEE UQAM Student Branch**
 Vice-president.

May 2011 **79th ACFAS Congress**
 Co-chair of a workshop entitled "Ambient Intelligence : Stakes and Challenges" co-sponsored by Xerox Research and LATECE Laboratory (UQAM)
 Sherbrooke, QC, Canada.

Involvement in Technical Committees

August 2015 **8th IFIP WG 8.1 working conference on the Practice of Enterprise Modeling (PoEM)– Valencia, Spain**
 Additional reviewer

May 2015 **2nd MRI-BP Workshop**
 Member of the technical program committee

Jul 2012 **IEEE Colloquium on Humanities, Science and Engineering– Sabah, Malaysia**
 Member of the technical program committee

Social involvement

2010–14 **Ligue de Water Polo du Montréal Métropolitain**
 Water-Polo volunteer referee officiating for young players and kids.

- 2010–today* **Water-Polo Provincial Official**
Refereeing in provincial tournaments and at the Canadian Championships.
- 2011–12* **Quebec Water-Polo Federation**
Board member. I was in charge of funding activities.
- 2010–13* **À Contre Courant Aquatic Club**
Board member. I built a web application to automate and manage operations more efficiently (registrations, tournaments, etc.).
- Dec 2009* **Volunteer of The Year**
Elected by Team-Montreal for my implication in the sporting community.

Work Experience in Industry

- 2009–11* **IT Manager – Canadian GeoExchange Coalition**
Montreal, PQ, Canada
Main responsibilities: leading a team in charge of:
- Design and development of an inter-organizational software handling geothermal system accreditations within Canada (in collaboration with the Canadian Government and major national energy companies); and
- Design and development of an online engineering software for the design and installation of residential geothermal systems
<http://www.geoanalyser.com>.
- 2008–09* **Head of programming department – Groupe Procite**
Laval, PQ, Canada
Main responsibilities:
- Opportunity study and planning of a marketing web portal development project;
- Software design, development and delivery of the portal within a 3 months timeframe.
- 2004–08* **President and Project Manager – CIBAXION Inc.**
Montreal, PQ, Canada
Main responsibilities:
– Managing a team of two developers and subcontractors;
– Project planning, requirements engineering and software design of web applications targeted to small and medium businesses;
– Advisor in Web Marketing and Search Engine Optimization (SEO);
– Day to day company administration : business development, prospecting;
Main Achievements:
– Design and implementation of more than 20 major web projects (transactional websites, inventory management and productivity web apps);
– Design and implementation of an e-commerce and web content management system ;
– Portfolio available at: <http://www.cibaxion.com/en/portfolio.php>.
- 2003–04* **Web Designer and Sales Manager – Ordinateur Intech**
Laval, PQ, Canada
Main responsibilities:
– Development of the company’s web site including a backend software

for inventory management;
– Sales manager and lead of a team of computer salespersons.

2001–03

Internships

Several Internship Positions in France at Epson Europe, Vistali and Aroline (12 months total).

I was involved in a wide range of projects including application development, application integration (EAI) and requirements analysis.