

*Jordi Cabot*

*Curriculum Vitae*  
*Barcelona, January 2017*

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## PERSONAL DETAILS

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Jordi Cabot Sagrera (where *Jordi* is the first name and *Cabot* and *Sagrera* are two last names, as customary in Spain) was born in Barcelona on September 11<sup>th</sup> 1978.

Now an ICREA Research Professor at Interdisciplinary Internet Institute (IN3 – UOC) in Barcelona where he leads the SOM research team (for “**S**ystems, **S**oftware and **M**odels”), Jordi can be reached at:

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Av. Carl Friedrich Gauss, 5. Edifici B3  
Parc Mediterrani de la Tecnologia  
08860 Castelldefels (Barcelona)  
Spain*

Or online at:

[jordi.cabot@icrea.cat](mailto:jordi.cabot@icrea.cat)  
<http://jordicabot.com>

## POSITIONS HOLD

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**05/2015 – present** *ICREA Research Professor at Internet Interdisciplinary Institute (IN3-UOC)*

**01/2010 – 04/2015** *INRIA Research Chair and Associate Professor at the École des Mines de Nantes.*

Leader of the [AtlanMod](#) joint research team (École des Mines de Nantes, Inria and CNRS ) since July 2010.

**5/2008 – 12/2009** *Post-doctoral fellow at the University of Toronto.*

Member of the Software Engineering Group in the department of computer science

**4/2004 – 12/2009** *Senior lecturer at the Open University of Catalonia.*

Coordinator of the software engineering area in the Computer Science Degree.

Coordinator of the software engineering postgraduate programme.

**9/2002 – 6/2004** *Associate lecturer at the Caixa d'Estalvis de Terrassa Business College.*

**9/2000-2/2002** *Associate lecturer at the Mataró School of Engineering.*

## EDUCATION

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**09/2012** French Habilitation (HdR - Habilitation à diriger des recherches, "accreditation to supervise research"). Dissertation: "MDE 2.0 : Pragmatical formal model verification and other challenges"

**5/2008 – 12/2009** Post-doctoral fellow at the University of Toronto, Software Engineering Group.

**11/2006** Ph.D in Computer Science (European Mention) from the Technical University of Catalonia (Software program, LSI Department). Dissertation: "Incremental Integrity Checking in UML/OCL Conceptual Schemas". Advisor: Dr. Ernest Teniente

**01/2006- 05/2006** Visiting researcher at Politecnico di Milano (Italy) where I collaborated with the group of Piero Fraternali in the Web Engineering area

**07/2002** Degree in Informatics Engineering. Technical University of Catalonia

**02/1999** Technical degree in Technical Engineering in Management Computing (Mataró School of Engineering)

## RESEARCH RESULTS

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My research falls into the broad area of software engineering, specially promoting the rigorous use of software models and engineering principles in all software engineering tasks, from development to reverse engineering to maintenance and interoperability, including the important role of human aspects in all of them.

### RESEARCH PUBLICATIONS

The following table summarizes my list of published research results so far (teaching-related publications are listed later on).

Type of Publication	Total
Journal	31
Book	1
Book Chapter	3
Conference	77
Workshop	44
National	11
<b>TOTAL</b>	<b>167</b>

A full list of publications can be found in the Appendix A. An (incomplete) list of publications can also be accessed online thanks to DBLP:  
<http://dblp.uni-trier.de/pers/hd/c/Cabot:Jordi.html>

### OTHER PERSONAL RESEARCH METRICS

Total number of citations and h-index and i10-index (according to Google Scholar)

	All
<a href="#">Citations</a>	3303
<a href="#">h-index</a>	28
<a href="#">i10-index</a>	84

Number of different co-authors of my published papers (according to DBLP): 147

## ANIMATION OF THE SCIENTIFIC COMMUNITY

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### SUPERVISION OF PhD STUDENTS

#### CURRENT

2015 - present. Hamza Ed-douibi. Thesis topic: Modeling uncertainty.

2014 – present. Gwendal Daniel. Co-directed with Gerson Sunyé. Thesis topic: Scalable NoSQL backends for model persistence

## PAST

2013 – 2016 Amine Benelallam. Co-directed with Massimo Tisi and Gerson Sunyé  
Thesis topic: Scalability for model-driven engineering techniques

2011 – 2014. Carlos González. Thesis topic: Efficient Formal model verification.

2011 – 2014. Salvador Martínez. Co-directed with Frédéric Cuppens. Thesis topic:  
Reengineering of security policies using model-based techniques.

2011 - 2013. Valerio Cosentino. Co-directed with Patrick Albert (IBM). Thesis topic:  
Extraction and refactoring of Business Logic from Legacy Applications.

2008 - 2013: Elena Planas. Co-directed with Cristina Gómez. Thesis topic: Verification  
of the executability of UML behavioural specifications.

## INVITED TALKS

I have given guest talks and seminars at several universities and institutions such as the Politecnico di Milano, University of Toronto, Technical University of Valencia, Technical University of Catalonia, University of La Rochelle, Basque Country University, University of Luxembourg, CEA...

I have also been invited to give a talk in the following conferences:

- Ingeniería del software dirigida por modelos: versión apta para incrédulos. 2ndo foro de ingeniería del software. Bogotá. 2016
- Wanna see your OSS project succeed? Nurture the community. Ericsson Modeling Days, Stockholm. 2016
- (Panelist) Conceptual Modeling and Big Data – ER conference. Gifu 2016
- Who needs languages when you have patterns?. 1st International Workshop on Patterns in Model Engineering. 2015
- (Panelist) Modeling in Software Engineering (ICSE workshop) 2012
- MDD - Desarrollo de software dirigido por modelos que funciona (de verdad!). SGVirtual. 2011
- MDE=Model Driven Everything. 2nd Spanish Eclipse day. Valencia (Spain), 2009
- Learning Software Engineering in a Virtual University: the UOC case in the Ier Congreso Internacional de Tecnologías de la Información y Comunicaciones (Regional South American Conference) 2005

## PARTICIPATION IN RESEARCH COMMITTEES

- Expert Panel member for the Fonds National de la Recherche Luxembourg: CORE 2016 and 2017
- Reviewer for the Fonds National de la Recherche Luxembourg: CORE 2015 and INTER 2015 programs
- Reviewer for the Austrian Science Fund - 2016
- Reviewer for French National Research Projects (ANR) – 2013
- Reviewer for Spanish CICYT Research Projects – 2016, 2012, 2011, 2010, 2009 and 2008 Editions
- Reviewer for the National Dutch Projects Call – 2012 and 2009
- Reviewer for National UK Projects: 2011
- Reviewer for National Argentinian Projects: 2011
- Reviewer for Israel Science Foundation (ISF) – 2010 and 2009
- Reviewer for Spanish "Torres Quevedo" Research Projects: 2009

### **STEERING COMMITTEE**

- International Conference on Model Transformation (member since 2011)
- Vice-Chair of the International Conference on Model Driven Engineering Languages and Systems since 2016 (member since 2015)
- Advisory board International Symposium on Model-driven Approaches for Simulation Engineering (since 2016)
- Member of the Papyrus Industrial Consortium (since 2016)

### **ORGANISATION OF CONFERENCES AND WORKSHOPS**

- Organization of international conferences:
  - PC Chair (together with Roberto de Virgilio, Int. Conf on Web Engineering 2017)
  - PC Track Chair (together with Marjan Mernik), Quatic 2016
  - Sponsor Chair, 19 Int. Conf. on Model Driven Engineering Languages and Systems (Models) 2016
  - PC Chair (together with Alexander Egyed) of the 18 Int. Conf. on Model Driven Engineering Languages and Systems (Models) 2015
  - PC Chair (together with Julia Rubin) of the European Conf. on Modeling Foundations and Applications (ECMFA) 2014
  - PC Chair (together with Eelco Visser ) of the Int. Conf. on Model Transformation 2011
  - Social Media Chair (together with Dimitris Kolovos) of MoDELS 2014
  - Posters and Demo Chair (together with Michael Nebeling) of ICWE 2014
  - Tutorials Chair at the MoDELS conference 2013
  - Publicity Chair of the ER'08 conference
  
- Workshop organization:
  - Co-organizer of CloudMDE, Int. Workshop on Model-Driven Engineering on and for the Cloud. Editions 2012, 2014 and 2015
  - Co-organizer of the International Workshop on OCL and Textual Modelling. Editions from 2008 to 2013 and 2016

- Co-organizer of the MELO - Model-Driven Engineering, Logic and Optimization: friends or foes? Workshop. Co-located with ECMFA 2011 and STAF 2016
- National workshops and conferences: Co-organizer of the Workshop on Model Driven Development, MDA and Applications (DSDM): 2015, 2010, 2008 and 2007 editions
- PhD Workshop Co-Chair for the ER'08 conference
- Co-organizer of the first Doctoral Symposium in the UML conference series (UML 2004)

### **ASSOCIATE EDITOR FOR THE FOLLOWING INTERNATIONAL JOURNALS**

- Journal of Object Technology 2012 - now
- Software and Systems Modeling 2013- now
- Computer Languages, Systems & Structures, 2015-now
- IEEE Software - Initiatives Team, 2015- now
- International Journal of Information System Modeling and Design 2011-2013

### **REVIEWER FOR THE FOLLOWING INTERNATIONAL JOURNALS**

Reviewer for all major journals in the software engineering area, including:

- IEEE Transactions on Software Engineering Journal,
- ACM Transactions on Software Engineering and Methodology,
- Journal of Systems and Software,
- Information and Software Technology Journal,
- Software and Systems Modeling Journal,
- Data and Knowledge Engineering Journal,
- Science of Computer Programming.
- Transactions on Aspect-Oriented Software Development journal
- Transactions on Systems, Man, and Cybernetics Journal
- Computers & Security Journal
- Journal of Computer Science Education
- Web Engineering journal
- Transactions of the Society for Modeling and Simulation
- Journal of Software: Evolution and Process

### **PC MEMBERSHIP IN INTERNATIONAL CONFERENCES**

I'm regularly a PC member in many conferences in software engineering, model-driven engineering and web engineering topics. Only international conferences are listed.

#### **International conferences**

- Fundamental Approaches to Software Engineering (FASE) 2017
- Int. Conf. on Automated Software Engineering (ASE): 2015, 2014 (PB)
- Int. Conf. on Advanced Information Systems Engineering (CAiSE): 2016,2015,2014, 2013, 2012



- Int. Conf. on Model Driven Engineering Languages and Systems (MoDELS): 2017 (PB), 2016 (PB), 2014,2013, 2012,2011,2010
- International Symposium on Open Collaboration (OpenSym): 2017,2016
- International Conference on Conceptual Modeling (ER): 2013, 2012
- European Conference on Modelling Foundations and Applications (ECMFA) :2016, 2015,2014,2013, 2012,2011,2010
- International Conference on Web Engineering (ICWE): 2009-2016
- Int. Conf. on Software Language Engineering (SLE): 2016, 2015,2012,2011,2010
- IEEE International Conference on Engineering of Complex Computer Systems : 2011,2010
- Model Transformation Conference: 2008-2016
- World Wide Web Conference : 2013, 2012, 2011,2010
- Tool Transformation Contest: 2011,2010
- Int. Conf. on Web Information Systems and Technologies (WEBIST): 2010
- RuleML Conference: 2011, 2010, 2009 editions
- The 12th IEEE International EDOC Conference (EDOC 2008)

### **International workshops (partial list)**

- Workshop on Executable Modeling, 2015
- International Model-Driven Requirements Engineering Workshop, 2015-2016
- International Workshop on OCL and Textual Modeling Tool, 2015, 2014
- STAF Doctoral Symposium, 2015
- Tutorials selection committee Models, 2016,2015
- International Workshop on Verification of Model Transformations, 2015
- MODELS ACM Student Research Competition, 2013
- International Workshop on Communicating Business Process and Software Models, 2013
- ICSE 2013 Formal Demonstrations selection committee, 2013
- RuleML Challenge: 2011,2010, 2009
- Model Driven Web Engineering Workshop (MDWE): 2011
- Workshop on Algebraic Methods in Model-Based Software Engineering (AMMSE): 2011
- Model-Driven Requirements Engineering: 2011
- International Workshop on the Web and Requirements Engineering: 2011
- Industry Track of Software Language Engineering 2011
- International Workshop on Models and Evolution (ME'10) co-located with MoDELS'10 conference
- Doctoral Symposium for the Int. Conf. on Software Language Engineering (SLE) : 2010
- ECMFA Workshop: From code centric to model centric: Evaluating the Effectiveness of MDD: 2010
- 7th International Workshop on Model-based Methodologies for Pervasive and Embedded Software (MOMPES): 2010
- International Workshop on Modeling Social Media 2010
- Software Engineering 2.0 & Research 2.0: 2009
- ADBIS Workshop on Model Driven Architecture: Foundations, Practices, and Implications: 2010, 2009 editions
- Educators Symposium at the MoDELS conference: 2011, 2010, 2009 editions
- Posters' track at the 8th Int. Conf. on web Engineering (ICWE'08)

- Symposium Committee of the Phd Symposium at MODELS'07
- OCLApps 2006:OCL for (Meta-)Models in Multiple Application Domains Workshop (Workshop at MODELS'06)

## **PARICIPATION IN PhD JURIES**

- Thomas Hartmann, University of Luxembourg (Luxembourg), 2016
- Djamel Khelladi, Université Pierre et Marie Curie (France), 2016
- David Granada, Universidad Rey Juan Carlos (Spain), 2016
- Silverio Martínez-Fernández, Universitat Politècnica de Catalunya (Spain), 2016
- Loli Burgueño, Universidad de Málaga (Spain), 2016
- Ran Wei, University of York (UK), 2016
- Andrea Mauri, Politecnico di Milano (Italy), 2016
- Jacob Geisel, Université Toulouse III (France), 2015
- Jean-Marie Gauthier, Université Franch-Comté (France), 2015
- María Francisca Pérez Pérez, Technical University of Valencia (Spain), 2015
- Tiexin Wang, École des Mines d'Albi (France), 2015
- Elie Richa, Telecom ParisTech (France), 2015
- Miguel Ángel García de Dios, Universidad Complutense de Madrid (Spain), 2015
- David Aguilera, Technical University of Catalonia (Spain), 2014
- Aymeric Hervieu, Université de Rennes I (France), 2013
- Quyet-Thang PHAM , Telecom Bretagne (France), 2012
- Islam Abdelhalim. PhD confirmation report. University of Surrey (UK). 2011
- Pau Giner. Technical University of Valencia (Spain), 2010
- Marta Ruiz. Technical University of Valencia (Spain), 2010
- José Eduardo Rivera. University of Málaga (Spain), 2010
- Gemma Grau. Universitat Politècnica de Catalunya (Spain), 2008
- Marina Egea. University Complutense of Madrid (Spain), 2008

## **AWARDS**

- Best paper award at Models 2016 (ACM/IEEE 19th International Conference on Model Driven Engineering Languages and Systems) for our paper PrefetchML: a Framework for Prefetching and Caching Models by Gwendal Daniel, Gerson Sunyé and Jordi Cabot
- Awards for Outstanding Committee Service received at the ACM/IEEE 18th International Conference on Model Driven Engineering Languages and Systems

## **DISSEMINATION AND TECHNOLOGY TRANSFER**

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I believe dissemination and technology transfer of our research is a key responsibility of any researcher.

As part of my dissemination activities I'd like to highlight

1. Publication of an introductory book on model-driven engineering, which has become the book of reference for teaching model-driven engineering and is now used in over 80 universities and educational institutions around the world.

Model-Driven Software Engineering in Practice  
by Marco Brambilla, Jordi Cabot, Manuel Wimmer  
Morgan & Claypool, 2012  
<http://mdse-book.com/>

2. The creation and administration of the Modeling Languages portal where I write about news, opinions, tools,... related to the world of software modeling and development that I think can be of interest for the general public. On average, the portal receives more than 1000 visits every day and is often cited in papers by researchers in this field.

<http://modeling-languages.com>

## **RESEACH PROJECTS / FUNDING**

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This section lists the funding (research projects and grants) I have received either as individual researcher or as leader of the SOM team (2015-now) or AtlanMod team (2010-2014 period).

The following summary table shows in the column *Budget-global* show the total budget of the Project while *Budget-team/me* indicates the amount corresponding to the funding for the team/myself.

Type of Project	Number	Budget (global)	Budget (team/me)
European	4	11976227	1118389
National	5	8267455	1533422
Regional	6	1729156	811121
Technology transfer	6	304900	154900
<b>TOTAL</b>	<b>21</b>	<b>22277738</b>	<b>3617832</b>

In what follows we give more details of these projects. Appendix C provides a complementary list of projects in which I participated but was not involved in their creation.

## **EUROPEAN**

### **2013- 2016 MONDO. FP7 STREP.**

Full Title: Scalable Modelling and Model Management on the Cloud.

Budget: 3732184 euros

Team budget: 452776 euros

Coordinator: The Open Group

Summary: As Model Driven Engineering is increasingly applied to larger and more complex systems, the current generation of modelling and model management technologies are being pushed to their limits in terms of capacity and efficiency. The aim of MONDO is to tackle the increasingly important challenge of scalability in MDE.

### **2013- 2015 AutoMobile. European Research For SMEs Call.**

Full Title: Automated Mobile App Development.

Budget: 1290338 euros

Team budget: 172184 euros

Coordinator: WebRatio

Summary: The AutoMobile project aims at designing and bringing to the market innovative methodologies, software tools, and vertical applications for the cost-effective implementation of crossplatform, multi-device mobile applications

### **2012 – 2015 ARTIST. European FP7 IP Project**

Full Title: Advanced Software-based service provisioning and migration of legacy software

Budget: 6953705 euros

Team budget: 493429 euros

Coordinator: ATOS Spain

Summary: The modernization and adaptation of legacy applications to cloud environments is a great challenge for all involved stakeholders, not only from the technical perspective, but also at the business level. The purpose of ARTIST is to propose and develop a novel model-driven approach for the migration of legacy applications in modern cloud environments covering all aspects of the process.

### **2010 – 2012 (Teaching project) Exchanging knowledge, techniques and experiences around Model Driven Engineering education. Lifelong learning - Leonardo da Vinci.**

Project aimed at the development of a content management system for model driven engineering that helps any lecturer interested in teaching MDE. Funding for traveling and short-stays only.

## **NATIONAL**

### **2017 – 2020 ODA: Open Data for All .**

Program: Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad

Budget: 63800 euros

Summary: The ODA project pursues an API-based infrastructure to empower citizens to benefit from the growing number of open data sources available online (but under a very heterogeneous set of formats, quality, availability,...).

**2016 – 2018** Abel Gómez. Juan de la Cierva Postdoc Senior Grant.

Program: Juan de la Cierva Incorporación 2015

Funding: 58000

**2013 – 2016** *MoNoGe. FUI French Project*

Full Title: Atelier de Modélisation de Nouvelle Génération.

Budget: 3737620 euros

Team budget: 510501 euros

Coordinator: SoftTeam

Summary: The MoNoGe project has for objective to bring innovative solutions allowing to ensure the agility of the models and modeling tools. The term agility is here referring to the properties of interoperability, extensibility and evolution of models.

**2012 – 2014** *ITM-Factory. FUI French Project*

Full Title: Information Technology Modernisation Factory.

Budget: 3490000 euros

Team budget: 647000 euros

Coordinator: MIA-Software

Summary: Application maintenance represents about 80 per cent of the computer market (at the French and global level). The main goal of the ITM Factory is to propose a software modernization framework, including: (i) an integrated workbench for software modernization engineers and (ii) a set of ready to use modernization cartridges.

**2012 – 2014** *TEAP. FUI French Project*

Full Title: TOGAF Enterprise Architecture Platform

Budget: 918035 euros

Team budget: 254121 euros

Coordinator: Obeo

Summary: The project aims to build an Enterprise Architecture platform based on the TOGAF9 standard. It will provide tool support for the reverse engineering of the enterprise's legacy systems and its modernization.

## **REGIONAL**

**2015-2018** *SOM New Team Proposal. UOC funding to kickstart the new SOM team at IN3. Funding covers 3 years of a postdoc and 3 years of a phd and travel money. Total funding: 201000*

**2015-2016** *SOM Team – Internal funding. Funding provided by the UOC as one of the IN3 official research teams for traveling, equipment,... Total funding: 70000*

**2011-2014** *AtlanMod New Team Proposal. Pays de la Loire. Call : Soutenir et accompagner la constitution de nouvelles équipes sur des thématiques émergentes.*

This grant was funded by the Pays de la Loire Regional Council “new research teams” program. This funding covers a PhD Student and two-years of a postdoc to help me settle down and start new research lines after my arrival at Nantes. Total funding: 196.000 euros

**2012 – 2014 *StreamMaster. FUI French Project***

Budget: 918035 euros

Team budget: 254121 euros

Coordinator: Data Syscom

Summary: The purpose of the StreamMaster project is creating a universal software solution for the smart management of document streams, providing an added value over all the chain.

**2008-2009. *Catalan Government grant (“Beatriu de Pinós”)***

Two-year grant to cover the expenses of my post-doctoral stay at the University of Toronto.

**2006. *Catalan Government travel grant***

Travel grant to cover the expenses of my pre-doctoral research stay at the Politecnico di Milano.

## **TECHNOLOGY TRANSFER**

**2011-2013 *Technology transfer action with IBM***

Funding of Valerio Cosentino’s PhD to investigate the extraction of business rules from COBOL legacy code. Valerio was directly hired and paid by IBM during the PhD.

**2011 – 2012 *INRIA Technology transfer action with MIA Software***

One year funding of a research engineer to improve the scalability of model-driven engineering techniques.

**2011 – 2012 *Technology transfer action with WebRatio***

Consulting for WebRatio to help them prepare the definition of their proposal for Interaction Flow Modeling Language (now a modeling standard).

**2010 – 2011 *Technology transfer action with BNP Paribas***

One year funding of a research engineer to explore the benefits of model-driven engineering to facilitate the interoperability of information system and development teams in large organizations.

## **TEACHING ACTIVITIES**

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I led the first edition of the *MDE Diploma* ([http://www.emn.fr/z-info/atlanmod/index.php/The\\_MDE\\_Diploma](http://www.emn.fr/z-info/atlanmod/index.php/The_MDE_Diploma)), an International post-graduate specialization Diploma in Model Driven Engineering (MDE) offered at the École des

Mines de Nantes. The goal of the MDE Diploma is to train engineers to manage complex projects in various IT fields with the latest cutting-edge modeling technologies. It comprises one semester of academic coursework plus a six-month internship with a company or a lab to become an internal expert able to solve industrial issues with MDE solutions. To best of my knowledge, the MDE diploma was the first full postgraduate program on MDE in the world.

Before leading the MDE diploma I had been in charge of several courses in CS degrees both in traditional universities and in virtual ones (where there are no face-to-face classes, the students connect to a virtual campus and all communication takes place online). The courses I have taught cover most of the spectrum in the software part of CS degrees and included programming, database and software engineering courses.

I have always been interested in exploring on how to improve our teaching techniques, what are the best contents and syllabus for the courses and how these courses could be adapted to different teaching scenarios. As a result of this interest I have collaborated on several books (as editor or author) and teaching publications. See Appendix B for a full list of teaching-related publications

## INDUSTRIAL EXPERIENCE

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Beyond the collaborations with industrial partners listed in the research projects section, I've also been involved with several other companies during my career.

**2013 – 2015.** Company: *Nelio Software S.L.*

Role: Co-Founder. Company offering conversion optimization services (based on statistical techniques like A/B testing) to improve the web presence of online businesses. Specialized on WordPress websites.

**2009 – 2013.** Company: *Software Engineering Services s.c.p.*

Role: Founder. Company offering model-based content and services to the software engineering community

**2001.** Company: *Strategy Consultants*

Role: Occasional consultant in software projects developed with the RAD Delphi technology.

**2000.** Company: *Asistencia en gestión tributaria.*

Role: Analyst/programmer for the web-based tax management system commercialized by the company.

**1998 - 1999** Company: *Mataró School of Engineering.*

Role: Programmer, part of the team that developed the internal information system for the university.



## APPENDIX A. FULL LIST OF RESEARCH PUBLICATIONS<sup>1</sup>

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### JOURNAL PUBLICATIONS

1. Javier Luis Cánovas Izquierdo, Jordi Cabot: Collaboro: a collaborative (meta) modeling tool. *PeerJ Computer Science* 2: e84 (2016)
2. Elena Planas, Jordi Cabot, Cristina Gómez: Lightweight and static verification of UML executable models. *Computer Languages, Systems & Structures* 46: 66-90 (2016)
3. Javier Luis Cánovas Izquierdo, Valerio Cosentino, Jordi Cabot: Analysis of co-authorship graphs of CORE-ranked software conferences. *Scientometrics*, 109(3): 1665-1693 (2016)
4. Robert Clarisó, Jordi Cabot, Esther Guerra, Juan de Lara: Backwards reasoning for model transformations: Method and applications. *Journal of Systems and Software*, 116: 113-132 (2016)
5. Javier Luis Cánovas Izquierdo, Jordi Cabot: JSONDiscoverer: Visualizing the schema lurking behind JSON documents. *Knowledge-based systems*, 103: 52-55 (2016)
6. Soichiro Hidaka, Massimo Tisi, Jordi Cabot, Zhenjiang Hu: Feature-based classification of bidirectional transformation approaches. *Software and System Modeling* 15(3): 907-928 (2016)
7. Jeffrey C. Carver, Jordi Cabot, Leandro L. Minku, Marco Torchiano: Regression Testing, Spoken Language, Crash-Inducing Commits, UML, and Legal Policy. *IEEE Software* 33(2): 26-28 (2016)
8. Javier Luis Cánovas Izquierdo, Valerio Cosentino, Jordi Cabot: Popularity will NOT bring more contributions to your OSS project. *Journal of Object Technology* 14(4) (2015)
9. Hugo Brunelière, Jordi Cabot, Javier Luis Cánovas Izquierdo, Leire Orue-Echevarria Arrieta, Oliver Strauß, Manuel Wimmer: Software Modernization Revisited: Challenges and Prospects. *IEEE Computer* 48(8): 76-80 (2015)
10. Fabian Büttner, Jordi Cabot: Lightweight string reasoning in model finding. *Software and System Modeling* 14(1): 413-427 (2015)
11. Robert Tairas, Jordi Cabot: Corpus-based analysis of domain-specific languages. *Software and System Modeling* 14(2): 889-904 (2015)
12. Jordi Cabot, Robert Clarisó, Daniel Riera: On the verification of UML/OCL Class Diagrams using Constraint Programming. *Journal of Systems and Software* 93: 1-23 (2014)
13. Hugo Brunelière, Jordi Cabot, Grégoire Dupé, Frédéric Madiot: MoDisco: a Model Driven Reverse Engineering Framework. *Information & Software Technology* 56(8): 1012-1032 (2014)
14. Carlos Alberto González Pérez, Jordi Cabot: Formal Verification of Static Software Models in MDE: A Systematic Review. *Information & Software Technology* 56(8): 821-838 (2014)
15. Joaquín García-Alfaro, Frédéric Cuppens, Nora Cuppens-Boulahia, Salvador Martínez Perez, Jordi Cabot: Management of stateful firewall misconfiguration. *Computers & Security* 39: 64-85 (2013)

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<sup>1</sup> In papers with authors listed in alphabetical order, equal contribution of all authors should be assumed.

16. David Ameller, Claudia P. Ayala, Jordi Cabot, Xavier Franch: Non-functional Requirements in Architectural Decision Making. *IEEE Software* 30(2): 61-67 (2013)
17. Philip Langer, Konrad Wieland, Manuel Wimmer, Jordi Cabot: EMF Profiles: A Lightweight Extension Approach for EMF Models. *Journal of Object Technology* 11(1): 1-29 (2012)
18. Javier Luis Cánovas Izquierdo, Frédéric Jouault, Jordi Cabot, Jesús García Molina: API2MoL: Automating the building of bridges between APIs and Model-Driven Engineering. *Information & Software Technology* 54(3): 257-273 (2012)
19. Manuel Wimmer, Salvador Martínez Perez, Frédéric Jouault, Jordi Cabot: A Catalogue of Refactorings for Model-to-Model Transformations. *Journal of Object Technology* 11(2): 2: 1-40 (2012)
20. Frank Buschmann, David Ameller, Claudia P. Ayala, Jordi Cabot, Xavier Franch: Architecture Quality Revisited. *IEEE Software* 29(4): 22-24 (2012)
21. Juan Manuel Doderó, Iván Ruiz-rube, Manuel Palomo-Duarte, Jordi Cabot. Model-Driven Learning Design. *Journal of Research and Practice in Information Technology*, 44(3) (2012)
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6. Jordi Cabot, Cristina Gómez: Generating Operation Contracts from UML Class Diagrams: A Template-based Approach. IV Taller sobre Desarrollo de Software Dirigido por Modelos, MDA y Aplicaciones (DSDM'07)
7. Marco Brambilla, Jordi Cabot, Sara Comai: Generating Extended Conceptual Schemas from Business Process Models. 15th Italian Symposium on Advanced Database Systems (SEBD'07), pp. 282-289.
8. Jordi Cabot, Ernest Teniente: Generación Automática de Restricciones de Integridad: Estado del Arte. II Taller sobre Desarrollo de Software Dirigido por Modelos, MDA y Aplicaciones (DSDM'05). CEUR Workshop Proceedings, ISSN 1613-0073, online <http://CEUR-WS.org/Vol-157/>

9. Jordi Cabot: La relación de materialización en UML. JISBD 2003, pp. 177-186. (JISBD is the Spanish Conference in Software Engineering and Databases)
10. Ruth Raventós, Jordi Cabot: A Conceptual Modelling Pattern for Roles. JISBD 2003, pp. 421-430
11. Jordi Cabot, Rodolfo García, Zipora Almaleh, Paloma Cáceres, Esperanza Marcos, M<sup>a</sup> José Vázquez: UML en el diseño de bases de datos relacionales. Novática, 150, pp. 62-66, 2001

## **APPENDIX B. FULL LIST OF TEACHING PUBLICATIONS**

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### **PARTICIPATION AT SUMMER SCHOOLS**

1. SFM-12 (International School on Formal Methods) MDE Summer School. June 2012

### **COLLABORATIONS IN TEACHING BOOKS**

1. Software engineering of distributed and component-based systems. Jordi Cabot (coordinator). Josep Maria Camps, Jordi Ceballos, Francisco Durán, Nathalie Moreno, José Raúl Romero, Antonio Vallecillo (authors), UOC Publishing Company, ISBN 978-84-690-4496-4. Catalan and Spanish versions available, 2006
2. Object-oriented software engineering *Enginyeria del Programari Orientat a l'Objecte*. Jordi Cabot, Isabel Guitart (coordinators). Jordi Fernández, Jordi Pradel, José Antonio Raya (authors), UOC Publishing Company, ISBN 84-9788-311-X. Catalan and Spanish versions available, 2005
3. Scanning the Computer Science (introductory computer science book). Joan Arnedo Moreno, Jordi Cabot Sagrera, Isabel Guitart Hormigo, Francisco Javier Noguera Otero, Rafael Macau Nadal, Joan Antoni Pastor Collado, Daniel Riera Terrén, Jordi Tubella Murgadas, José Ramón Rodríguez Bermúdez, M. Elena Rodríguez González (authors) M. Jesús Marco Galindo, Josep M. Marco-Simó, Josep Prieto Blázquez, Ramón Segret Sala (eds.) UOC Publishing Company, Catalan and Spanish versions available, 2010

### **INTERNATIONAL TEACHING PUBLICATIONS**

1. Jordi Cabot, Massimo Tisi. The MDE Diploma: First International Postgraduate Specialization in Model-Driven Engineering. *Journal of Computer Science Education*, 21(4), 389-402, 2011
2. Jordi Cabot, Francisco Durán, Nathalie Moreno, Raúl Romero, Antonio Vallecillo: From Programming to Modeling: our Experience with a Distributed Software Engineering Course. 30<sup>th</sup> Int. Conf. on Software Engineering (Education Track)
3. Jordi Cabot, Francisco Durán, Nathalie Moreno, Raúl Romero, Antonio Vallecillo: Shifting the Focus from Programming to Modeling in a Distributed Software Engineering Course. *Educators Symposium at the MODELS'07 conference*.
4. M. Elena Rodríguez, Montse Serra, Jordi Cabot, Isabel Guitart: Evolution of Teacher Roles and Figures in E-learning Environments. 6th IEEE International Conference on Advanced Learning Technologies (ICALT 2006)

### **NATIONAL TEACHING PUBLICATIONS**

1. Jordi Cabot. *Ingeniería del Software*. Capítulo de libro. Título: “Escaneando la Informática”. Editorial UOC. M. Jesús Marco Galindo, Josep M. Marco-Simó, Josep Prieto Blázquez, Ramón Segret Sala (eds.)
2. Isabel Guitart, M. Elena Rodríguez, Jordi Cabot, Montse Serra: Selecting the right evaluation model: a case study for Software Engineering Subjects (Title in Spanish: “Elección del modelo de evaluación: caso práctico para asignaturas de ingeniería del

- software”. XII Jornadas de Enseñanza Universitària de la Informàtica (JENUI 2006), pp. 191-198
3. Santi Caballé, Jordi Cabot, Jordi Conesa, Robert Clarisó, Elena Planas, Daniel Riera : Cuckoo – a web platform for the verification of UML models (Title in Spanish: “CUCKOO – una plataforma web para la verificaci3n de modelos UML). XV Jornadas de Enseñanza Universitària de la Informàtica (JENUI 2009).

## APPENDIX C. PARTICIPATION IN OTHER RESEARCH PROJECTS

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Complementary list of projects to those mentioned in the “Research Projects / Funding” section. I had an active participation in all these projects but I was not the person representing our team in the proposal / creation of the project.

### European

#### 2009 – 2012 *OPEES* European Project

OPEES is an industrial Consortium for the definition, elaboration and deployment of an Open Platform for the Engineering of Embedded Systems. The partners are Industrial (Airbus, EADS Astrium, Continental Automotive, STMicroelectronics, Schneider Electric, FT R&D, participation from clusters, Thales), Research and University (EA LIST, INRIA, IFP, LAAS, ENSEEIHT, Verimag) and Vendors and service providers ( OBEO, CS, ...). The OPEES initiative is common to three competitiveness clusters: Aerospace Valley, Systematic and Minalogic. The mission of OPEES is to build a community able to ensure long-term availability of innovative engineering technologies in the domain of dependable / critical software-intensive embedded systems. Its main objectives are to secure the industrial strategy, improve their competitiveness and develop the European software industry. Our schema of open source industrial collaboration (e.g. around ATL) will be tested and developed as a team contribution to this project

#### 2009 – 2012 *CESAR* European Project

CESAR stands for Cost-efficient methods and processes for safety relevant embedded systems and is an ARTEMIS European funded project. CESAR pursues a multi-domain approach integrating large enterprises, suppliers, SME's and vendors of cross sectoral domains and cooperating with leading research organizations and innovative SME's. Our work in CESAR consists of providing model virtualization techniques to provide a unified view of the system by mixing different partial models, each one focusing on a given aspect of the system.

#### 2007-2008. *Spanish-Italian Integrated action.*

PI: Ernest Teniente. Funded by the Spanish Ministry of Science and Technology and the Italian Government.

### National

#### 2010 – 2012 *Galaxy ARPEGE* French Project

This ARPEGE project focuses on the problem of model driven collaborative development of complex systems. The project partners are Airbus, IRIT, LIP6, AKKA and Softeam. Galaxy aims at defining an open and flexible architecture particularly designed to be scalable. One of the key points is related to the fragmentation and distributiveness of huge models, their relationship and

synchronization. Our work in this project is related to the Megamodeling concept and the languages required to manipulate and query these large sets of models.

**2008 – 2011** *IDM++*.

This is a RNTL project started in January 2008 for three years with ILOG/IBM, MIA-Software and CEA as partners. The goal is to advance the state of the art in MDE. To this end we are working on model weaving, global model management, and model configuration topics. Experimentation on synergies between MDE and constraint programming (for example to check the correctness of Eclipse configuration problems) are also being researched as part of the this project.  
PI:Patrick Albert

**2009 – 2013.** *CICYT Project. TIN2008-00444/TIN*

Spanish national project. Design and construction of a Conceptual Modeling Assistant. PI: Antoni Olivé. Funded by the Spanish Ministry of Science and Technology.

**2008 – 2010.** *National Spanish Network of Excellence on Model-driven Engineering.*

Network to facilitate the knowledge exchange around MDE. PI: Antonio Vallecillo. PI of the local UOC node: Jordi Cabot. Funded by the Spanish Ministry of Science and Technology.

**2006 - 2008.** *CICYT Project. TIN2005-06053.*

Spanish national Project. “Construcción de un entorno integrado para el desarrollo centrado en el esquema conceptual de sistemas de información”. Funded by the Spanish Ministry of Science and Technology.

**2002 – 2005.** *CICYT Project. TIC2002-00744.* Spanish national Project.

Desarrollo de un entorno avanzado de ayuda a la modelización conceptual. Funded by the Spanish Ministry of Science and Technology.