

# Jolita RALYTÉ, PhD

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## Personal Adresse:

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**Marital status:** Born on the 16th March, 1970 in Lithuania; Nationality Lithuanian; Married, 2 children

**Function:** Since March 2007, Assistant Professor (MER - Maître de Recherche et d'Enseignement) at the University of Geneva, Faculty of Economic and Social Science, Department of Information Systems.

## Current Activities 2009-2010 (Summary)

### TEACHING

#### Master and Bachelor Courses

- Business Development with Services (new course 2010, 6 credits, lectures and seminars, Master, spring)
- Information System Governance (new course 2010, 6 credits, lectures and seminars, Master, autumn)
- Project Management (3 credits, lectures, Bachelor, spring).
- Databases (6 credits, lectures, Bachelor, autumn).
- Requirements Analysis (new course 2009, 3 credits, Bachelor, autumn)

#### Continuing Education

- Certificates MATIS (Management and Technology of Information Systems):
  - Modelling of Information Systems and Services (10 credits).
  - Project Management for Information Systems and Services (10 credits).

### DIRECTION OF DISSERTATIONS

- Doctoral dissertation in Information Systems by Nicolas Arni-Bloch: "Ingénierie des services informationnels à l'aide de méthodes situationnelles" (Engineering Information Services with Situational Methods). Defended the 10th March 2009, University of Geneva.
- Master dissertation by Kevin Vlaanderen: Product Software Knowledge Infrastructure. Main director Prof. S. Brinkkemper, University of Utrecht, The Netherlands. Supervision during the visit in the University of Geneva, November 2009 – January 2010.

### EVALUATION OF RESEARCH WORKS

- Member of doctoral dissertation jury: PhD dissertation defended by Miss Charlotte Hug the 20<sup>th</sup> October 2009 at the University of Grenoble 1, France. Title: Méthode, modèles et outil pour la méta-modélisation des processus d'ingénierie de systèmes d'information.
- Member of editorial board of international journals: IJISMD – International Journal of Information Systems Modeling and Design, IJISSS – Int. Journal of Information Systems in the Service Sector.
- Reviews for international journals: JSS – Journal of Systems and Software, JSSM – Journal of Service Science and Management, TSE – Transactions on Software Engineering, ISEBM – Information Systems and e-Business Management, IJISMD – International Journal of Information Systems Modeling and Design, EJIS – European Journal of Information Systems, AES – Advances in Engineering Software, INFOSOF – Information and Software Technology.

### ADMINISTRATION

- Direction and coordination of certificates of continuing education MATIS, University of Geneva.

### PROJECTS AND RECHERCHE ACTIVITIES

- Vice-president of the IFIP WG 8.1: Design and Evaluation of Information Systems.
- Leader of the 'Method Engineering Task Group' within the IFIP WG 8.1.
- OUAPS ERP – consultant in the ERP project, Company OUAPS, Switzerland.

### INTERNATIONAL CONFERENCES

#### Direction and Organisation

- Program Chair of CAiSE'12, Gdansk, Poland, June 2012.
- General Chair of IFIP WG8.1 ME'11, Paris, France, April 2011.
- Publication Chair of CAiSE'11, London, UK, June 2011.
- Member of Organising Committee of the conferences: IESS 1.0, Geneva, February 2010 and IESS 1.1 Geneva, February 2011.
- Workshops and Tutorials Chair of CAiSE'10, Hammamet, Tunisie, Juin 2010.

#### Member of Programme Committee 2009 - 2010

CAiSE'10, CAiSE'09, ECIS'10, ECIS'09, PoEM'10, PoEM'09, ICEIS'10, ICEIS'09, RCIS'10, RCIS'09, ICISOFT'10, ICISOFT'09, INFORSID'10, EMMSAD'10, EMMSAD'09, GISP'10 (avec WCC'10), ENASE'10, FIPA-DPDF'10, WGBP'10, RIGIM '09, iiWAS'09.

## Diplomas

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- 2001** PhD in computer science. University of Paris I – Sorbonne, France.
- 1995** Master degree “Theory and Engineering of Databases”. Universities of Paris I – Sorbonne and Paris XI – Orsay, France.
- 1993** Master degree in applied mathematics. University of Vilnius, Faculty of Mathematics and Informatics, Lithuania.
- 1988** High school diploma. Siauliai, Lithuania.
- 1988** Diploma of children Art School.

## Positions

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- Since 2007** Assistant Professor (MER – Maître de Recherche et d'Enseignement) at the University of Geneva, Faculty of Economics and Social Science, Geneva, Switzerland.
- 2001-2007** Senior researcher and lecture at the University of Geneva, Department of Information Systems, Geneva, Switzerland.
- 1998-2000** Temporary lecturer and researcher at the University of Paris I - Sorbonne, Paris, France.
- 1995-2000** Doctoral student in computer science at the University of Paris I – Sorbonne, CRI (Centre de Recherche en Informatique) laboratory, Paris, France. Directed by the Professor Colette Rolland. Subject: Component based method engineering.
- 1993-1994** Software engineer at the Franco-Lithuanian enterprise NERISENA, Vilnius, Lithuania (part-time work).
- 1992-1994** Teacher of mathematics, physics and chemistry at the Secondary School of French Embassy in Vilnius, Lithuania.
- 1989-1993** Student at the University of Vilnius, Faculty of Mathematics and Informatics, Lithuania.

## Teaching

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### **Since 2001: Researcher and Lecturer (until 2007), then Assistant Professor at the University of Geneva**

#### **2009-2010**

- Business Development with Services (new course 2010, 6 credits, lectures and seminars, Master, spring)
- Information System Governance (new course 2010, 6 credits, lectures and seminars, Master, autumn)
- Project Management (3 credits, lectures, Bachelor, spring).
- Databases (6 credits, lectures, Bachelor, autumn).
- Requirements Analysis (new course 2009, 3 credits, Bachelor, autumn)

#### **Past**

- Information System Project Management (6 credits, lectures and seminars, Master).
- Evolution and Interoperability of Information Systems (6 credits, lectures and seminars, Master, *with Prof. Léonard*).
- Databases (6 credits, lectures, Bachelor).
- Fundamentals of Information and Communication Systems (*2h per week, 2003-2007, Master lectures and seminars for non-informatics students*).
- Evolution of Information Systems (*2h per week, 2003-2005, lectures, DEA MATIS/ Master, avec Prof. Léonard*).
- Information Systems Development Methods (*24 h, DEA MATIS/ Master 2002-2003*).

#### **Invited Courses**

- Methods and Method Engineering for Information Systems Development. (*12 h, lectures and seminars, Master*). Polytechnic University of Catalonia, Barcelona, Spain. April 2008.
- Assembly-based Method Engineering. (*4h, Master*). University of Utrecht, The Netherlands, March 2008.
- Information systems evolution. (*20h, lectures and seminars, Master*). University of Klagenfurt, Austria, 2004.

#### **Continuing Education of the University of Geneva, MATIS – Management and Technology of Information Systems**

- Project Management for Information Systems and Services (10 credits, 2009).
- Modelling of Information Systems and Services (10 credits, 2009, 2010).
- Requirement Engineering (12 h, 2008).
- Methods and Method Engineering for Information Systems Development (16h, 2006).
- Information Systems Modelling (8h, 2006).
- Situational Methods for Information Systems Development (16h, 2002).

### **1998-2000: Temporary Lecturer and Researcher at the University of Paris I – Sorbonne, France**

- Analysis and Design Methods for Information Systems Engineering (OOSE, UML, CREWS-L'Ecritoire) (42 h, lectures, Master).
- Requirements Engineering with Scenario-based Methods (3 h, lecture, Master).
- Requirements Engineering Method CREWS-L'Ecritoire (3 h, lecture, Master).
- Assembly-based Situational Method Engineering (6h, research seminar, Mater).
- Analysis and Design Methods for Information Systems Engineering: ER and REMORA. (90 h, seminars, Mater).
- Databases: functional dependencies, relational algebra, SQL (66 h, seminars, Master).

### **1995-1998: Part-time Lecturer at the University of Paris I – Sorbonne, the University of Paris 12 (Fontainebleau) and the University of Paris 11 (Orsay), France**

- Analysis and Design Methods OOSE, UML (24 h, lectures at the University of Paris 1, Master).
- Analysis and Design Methods for Information Systems Engineering: ER and MERISE (36 h, seminars at the University of Paris 11, under-graduate).
- Databases: functional dependencies, relational algebra, SQL (*seminars, 180 h in the University of Paris 1, 55 h in the University of Paris 12*).
- Visual dBASE (*18 h, seminars, in the University of Paris 1*).

### **1992-1994: Teacher at the Secondary School of the French Embassy in Vilnius, Lithuania**

Courses of mathematics, physics and chemistry.

## **Direction of Dissertations**

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**2009-2010** Master dissertation on Product Software Knowledge Infrastructure. Codirection with Prof. S. Brinkkemper de University of Utrecht, The Netherlands.

**2004-2009** **Doctoral dissertation** in Information Systems by Nicolas Arni-Bloch: "Ingénierie des services informationnels à l'aide de méthodes situationnelles" (Engineering Information Services with Situational Methods). Defended the 10h March 2009, University of Geneva. FNS Grant.

#### **Since 2001 Dissertations for obtaining a Master degree at the University of Geneva:**

- Process Engineering for Distributed Information Systems Development.
- Integration of Information System Components into Legacy Information Systems.
- Information Systems Evolution: IS Change Management and Study of its Impact on Different Design Views (requirements model, usage model and design model).
- Exploration of Methods for Web Service Engineering.
- Analysis and Characterisation of interoperability Situations in Information Systems Development.
- Situational Method Engineering for a Specific IS Engineer Profile.
- Validation of Consistency between Requirements Models and Analysis Models.
- Situational Method Engineering: A State of the Art.

#### **Since 2001 Dissertations for obtaining a degree (equivalent to Bachelor) at the University of Geneva:**

- Applying Content Management Systems for Dynamic Web Portal Development.
- Analysis and Evolution of a Socio-technical System at the TSR (Swiss Romande Television), 2 students.
- Development of a Dynamic Web Portal supporting Management of Certificates of Continuing Education.
- Design and Development of a B2B System. (ERP Project with Audemars-Piguet), 2 students.

#### **1997-1999 Dissertations for obtaining a Master degree at the University of Paris 1 – Sorbonne, France:**

- 3 Dissertations in the domain of Situational Method Engineering.

## **Research Projects and Activities**

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### **Activities**

**2010** Vice-Chair of the IFIP WG 8.1: Design and Evaluation of Information Systems.

**2007 – 2009** Secretary of the IFIP WG 8.1: Design and Evaluation of Information Systems.

**Since 2004** Member of the IFIP WG 8.1: Design and Evaluation of Information Systems.

Leader of the Task Group on Method Engineering within IFIP WG 8.1

**2005-2007** Leader of the Task Group: Methods, Requirements and Method Engineering for interoperability', European Network of Excellence NoE INTEROP – Interoperability Research for Networked Enterprises Applications and Software.

### **Research Projects**

- 2008 - 2009** Collaboration with the Public Research Centre Henri Tudor, Luxembourg. Project – co-direction of a PhD dissertation.
- 2004-2008** Computer Aided Situational Method Engineering. Project supported by FNS (Swiss National Science Foundation).
- 2005-2007** MAeL (Méthode pour l'Administration en Ligne) – Method for e-administration. In collaboration with CTI (R&D centre of the State of Geneva).
- 2004-2007** SESAME - Smart Environment for Situational Method Engineering. Collaboration with EXeCO, I3S Laboratory - CNRS Sophia Antipolis - University of Nice, France..
- 2004 - 2005** Modular Method Re-engineering: Improving the RESCUE Requirements Process. Collaboration with the Centre for HCI Design, City University, London, UK.
- 2003-2006** European Network of Excellence Interop NoE – Interoperability Research for Networked Enterprise Applications and Software, FP6 508011.
- Since 2001** Collaboration with the research centre (CRI – Centre de Recherche en Informatique), University of Paris 1-Sorbonne, France.
- 1996-1999** European research project CREWS – Co-operative Requirements Engineering With Scenarios, FP4 21.903.
- 1997-2000** Franco-Tunisian research project. Collaboration between the research centre CRI, University of Paris 1, and the laboratory PGL, Tunisian National School of Computer Science.
- 1995-1996** European research project TOOBIS – Temporal Object-Oriented Databases in Information Systems.

### **Evaluation of Research Work**

#### **Evaluation of Doctoral Dissertations**

- 2009** Member of jury: PhD dissertation defended by Miss Charlotte Hug on "Method, models and tools for meta-modelling of information systems engineering processes (original title: Méthode, modèles et outil pour la méta-modélisation des processus d'ingénierie de systèmes d'information), University of Grenoble 1, France, October 2009.
- 2008** Reviewer and member of jury: PhD dissertation defended by Miss Remma Grau on An i\*-based Reengineering Framework for Requirements Engineering Processes, Polytechnic University of Catalonia, Barcelona, Spain, July 2008.

#### **Member of Editorial Board of International Journals**

IJISMD – International Journal of Information Systems Modeling and Design

IJISSS – International Journal of Information Systems in the Service Sector

#### **Reviewer for International Journals**

JSS – Journal of Systems and Software,

JSSM – Journal of Service Science and Management

TSE – Transactions on Software Engineering

ISEBM – Information Systems and e-Business Management

EJIS – European Journal of Information Systems

AES – Advances in Engineering Software

INFSOF – Information and Software Technology

SOSYM – Software and Systems Modeling

### **Research Seminars and Tutorials**

- 2008** Situational Method Engineering for Interoperability. Research Seminar at the Polytechnic University of Catalonia, Barcelona, Spain, April 2008.
- A Knowledge-Based Approach to Manage Information Systems Interoperability. Research Seminar at the University of Utrecht, The Netherlands, March 2008.
- 2007** Modularisation Concepts in Method Engineering: Towards Common Ground? Panel, IFIP WG 8.1 Working Conference on Situational Method Engineering: Fundamentals and Experiences (ME07), 12 - 14 September 2007, Geneva, Switzerland.
- Situational Method Engineering: Towards a Specific Method for Each System Development Project. Full-day tutorial, 12th International Conference on Reliable Software Technologies, Ada-Europe 2007, Geneva, 25-29 June 2007, <http://adae2007.eig.ch/tutorial.html>

Situational Method Engineering: Method Chunks for Interoperability. Research Seminar at Valencia University of Technology, Departement of information Systems. Valencia, Spain, April 2007.

- 2004 Assembly-based Situational Method Engineering. Research Seminar at the University of Klagenfurt, Austria, December 2004.
- 2003 Ingénierie des méthodes à base de composants. Tutorial, CTI, Geneva, January 2003.
- 2001 Méthodes situationnelles dans l'ingénierie des systèmes d'information. Séminaire, HCUGE, Geneva, December 2001
- 2001 Ingénierie des méthodes à base de composants. 19<sup>ème</sup> Congrès Informatique des Organisations et Systèmes d'Information et de Décision, INFORSID'01, Martigny, Switzerland, May 2001.
- 1999 Method Engineering through Chunk Assembly. Tutorial, 2<sup>nd</sup> Workshop on the Many Facets of Process Engineering, MFPE'99, Gammarth, Tunisia, May, 1999.

### **Projects with Industry**

- 2008 OUAPS ERP – ERP implementation project in the Swiss-French company OUAPS, Lausanne, Switzerland – Lyon, France.
- 2001 -2002 Information system development project in the enterprise Audemars – Piguet, (Le Brassus, Switzerland). Requirements elicitation and conceptualisation, ERP selection, development, project management.

## Research Domains

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My research work is situated in the area of information systems (IS) and services (ISS) engineering. It can be summarized in three axes: situational method engineering, process engineering and requirements engineering

### **Situational Method Engineering**

Since the beginning of my PhD, my main research domain is situational method engineering. I have developed an approach for situation-specific method construction supporting information systems development and evolution. This approach is based on the notion of method chunk and the assembly process which allows to consider the particular situation of the each IS development project and to construct a method the best fitting this situation. I have applied this approach for the construction of methods dedicated to specific domains such us:

- **IS Evolution by Integration of New Services:** information service (ISS) design; method chunks for ISS integration into legacy IS; guidance in method chunks selection according to the project situation; evaluation of the impact of ISS integration. This work was supported by the Swiss Research Foundation.
- **Interoperability of IS:** method chunks dealing with IS interoperability issues; the framework for characterising interoperability situations and identifying interoperability problems/opportunities; case studies; evaluation of method chunks. This work was supported by the European Network of Excellence NoE INTEROP.
- **E-gouvernement:** definition of an ontology based on low analysis for institutional IS development. This work was realised in collaboration with the R&D Centre of State of Geneva.

### **Process Engineering**

I'm working on the definition of strategic and flexible process models in general and IS engineering processes in particular.

- **Process Modeling Formalism MAP:** the process modelling formalism called MAP allows to represent in the same model several ways to guide an engineering process. This multi-process representation is based on two main concepts – intention and strategy – where several strategies can be provided to achieve the same intention.
- **Process Model for ISS Integration into IS:** a situation-driven process model supporting legacy IS evolution with new ISS.
- **IS Security Management:** representation of IS security management processes with MAP formalism; integration of different existing techniques into one multi-process model. This work was realised in collaboration with the Public Research Centre Henri Tudor, Luxembourg.

### **Requirement Engineering**

I have collaborated in the development of requirements engineering methods and their formalisation according to the situation method engineering principles:

- **CREWS-L'Écriture:** this approach allows to discover information and software system requirements in the form of hierarchy of couples <goal, scenario>. The approach provides detailed guidelines for goal elicitation and scenario authoring and ensures the completeness and coherence of the obtained requirements specification. This work was realised in the University of Paris I – Sorbonne.
- **RESCUE:** the RESCUE (Requirements Engineering with Scenarios in User-Centred Environments) approach was re-defined following our situational method engineering approach into a collection of method chunks positioned in a strategic process model. This work was realised in collaboration with the Centre for HCI Design, City University, London, UK.
- **Requirements Engineering for Services:** exploration et adaptation of requirements engineering approaches for the design, development and integration of information services.

## Other Related Domains

I am also interested in new and emerging research topics related to my main research area as for example:

- **MaaS – Method as a Service**: revision of the notion of method chunk in the service-driven context. The objective of this work is to improve the definition of method service granularity, interoperability and availability.
- **Project Management in the Service-Oriented Context**: exploration, adaptation, innovation in IS project management.
- **Distributed Development**: development of a framework supporting project management in distributed development of information systems: a support to identify and manage risks caused by different kinds of distances (geographical, temporal, socio-cultural, etc.).

## Organisation of International Conferences and Workshops

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- 2012** **Program Chair** of **CAiSE'12** – 24th International Conference on Advanced Information Systems Engineering, Gdansk, Poland, June 2012.
- 2011** **General Chair** of **ME'11** – IFIP WG 8.1 Working Conference on Method Engineering, Paris, France, April 20-22, 2011.  
**Publication Chair** of **CAiSE'11** – 23rd International Conference on Advanced Information Systems Engineering, London, UK, June 20-24, 2011.  
**Organising Committee** of **IESS 1.1** – 2nd International Conference on Exploring Services Science, Geneva, Switzerland, February 16-18, 2011.
- 2010** **Workshops and Tutorials Chair** of **CAiSE'10** – 22nd International Conference on Advanced Information Systems Engineering, Hammamet, Tunisia, June 07-11, 2010.  
**Publication Chair** of **IESS 1.0** – 1st International Conference on Exploring Services Science, Geneva, Switzerland, February 17-19, 2010.
- 2009** **Associate Editor** of **ECIS'09** – 17<sup>th</sup> European Conference on Information Systems, Verona, Italy, June 8-10, 2009.
- 2008** **Tutorials Chair** of **ER'08** - 27th International Conference on Conceptual Modeling, Barcelona, Spain, October 20-23, 2008.  
**Track Chair** at **MCIS'08** – Mediterranean Conference on Information Systems, Hammamet, Tunisia, October 23-26, 2008. Session "Flexible Information Systems Development".
- 2007** **Program Chair** of **ME07** – IFIP WG 8.1 Working Conference on Situational Method Engineering: Fundamentals and Experiences, September 12 – 14, 2007, Geneva, Switzerland.  
**Chair** of **SREP'07** – 2nd International Workshop on Situational Requirements on Engineering Processes: Tailoring Requirements Engineering Processes to the Global Context. In conjunction with RE'07 – 15<sup>th</sup> IEEE International Requirements Engineering Conference, October 15<sup>th</sup> – 19<sup>th</sup> 2007, Delhi, India.
- 2006** **Doctoral Symposium Chair** at **I-ESA'06** – 2<sup>nd</sup> International Conference on Interoperability for Enterprise Software and Applications, Bordeaux, France, March 20 – 24, 2006.
- 2005** **Chair** of **SREP'05** – International workshop Situational Requirements Engineering Processes – Methods, Techniques and Tools to Support Situation-Specific Requirements Engineering Processes. In conjunction with RE'05 – 13<sup>th</sup> IEEE International Requirements Engineering Conference, August 29<sup>th</sup> – September 2<sup>nd</sup> 2005, Paris, France.  
**Organising Chair** of **INTEROP-ESA** – 1<sup>st</sup> International Conference on Interoperability of Enterprise Software and Applications, Geneva, Switzerland, February 21-25, 2005.
- 2003** **Chair** of **EMSISE'03** – International workshop on Engineering Methods to Support Information Systems Evolution. In conjunction with 9<sup>th</sup> International Conference OOIS'03, Geneva, Switzerland, September 2003. *Direction du programme et organisation*.  
**Workshops Chair** of **OOIS'03** – 9<sup>th</sup> International Conference on Object-Oriented Information Systems, Geneva, Switzerland, September 2003.

## Program Committee Member

**CAiSE** – International Conference on Advanced Information Systems Engineering: **2004-2011**.

**ECIS** – European Conference on Information Systems: **2008-2010**

**ME** - IFIP WG 8.1 Working Conference on Situational Method Engineering: Fundamentals and Experiences: **2007**.

**REFSQ** – International Working Conference on Requirements Engineering: Foundation for Software Quality: **2002-2008, 2011**.

**BPM** – International Conference on Business Process Management: **2008**.

**PoEM** – IFIP WG8.1 Working Conference on The Practice of Enterprise Modeling: from Business Strategies to Enterprise Architectures: **2008-1010**.

**ICEIS** – International Conference on Enterprise Information Systems: **2007- 2010**

**RCIS** – International Conference on Research Challenges in Information Science: **2007- 2010**

**INFORSID** – Congrès Informatique des Organisations et Systèmes d'Information et de Décision : **2002, 2006, 2008, 2010**.

**EMMSAD** – International Workshop on Exploring Modeling Methods in Systems Analysis and Design: **2006-2010**

**GISP'10** (avec WCC'10) – IFIP TC 8 Conference on Global Information Systems Processes, World Computer Congress: **2010**

**ICSOFIT** – International Conference on Software and Data Technologies: **2006-2010**

**ENASE** – International Conference on Evaluation of Novel Approaches to Software Engineering: **2010**  
**WGBP** – International Workshop on Goal-based Business Process Engineering: **2010**  
**FIPA-DPDF** – International IEEE FIPA Workshop on Design Process Documentation and Fragmentation: **2010**  
**iiWAS** – International Conference on Information Integration and Web-based Applications & Services: **2008**  
**RIGIM** – International Workshop on Requirements, Intentions and Goals in Conceptual Modeling. **2007, 2008.**  
**MCIS** – Mediterranean Conference on Information Systems: **2008.**  
**I-ESA** – International Conference on Interoperability for Enterprise Software and Applications: **2005- 2007.**  
**MUSE** – International Workshop on Metamodelling – Utilization in Software Engineering: **2006- 2008.**  
**BIR** – International Conference on Perspectives in Business Informatics Research: **2005- 2007.**  
**ADBIS** – East-European Conference on Advances in Databases and Information Systems: **2005.**  
**TPSE** – IBIMA 2005 conference on Theory and Practice of Modern Software Engineering: **2005.**  
**ADBIS** – East-European Conference on Advances in Databases and Information Systems: **2005.**  
**OOIS** – International Conference on Object-Oriented Information Systems: **2003.**

## Languages

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English: fluent  
French: fluent  
Russian: fluent  
Spanish: intermediate  
Chinese: beginner  
Lithuanian: mother tongue