

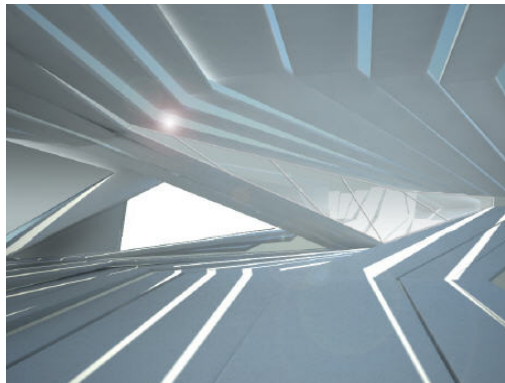
## Curriculum Vitae

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**Ivanka Iordanova**

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January 2012



## Competences

	Architect Ph.D. in Environmental Design, M. Arch., LEED AP
Professional interests	<ul style="list-style-type: none"> <li>• Integrated design and performative architecture</li> <li>• Cognitive aspects of building design</li> <li>• Digital modeling, simulations and fabrication</li> <li>• Collaborative and multidisciplinary design</li> <li>• Teaching architectural design : digital methods</li> <li>• Green and sustainable architecture; biomimicry</li> <li>• Advanced architectural geometry</li> </ul>
Experience	<ul style="list-style-type: none"> <li>• 6 years of experience in architectural practice</li> <li>• 8 years of teaching experience</li> <li>• 14 years in academic and industrial research projects</li> </ul>
Languages	English, French, Bulgarian, Russian

## Current Position

Jan. 2012	Building Information Modeling Manager, Pomerleau
Jan. 2004 - ongoing	Lecturer: School of Architecture, Université de Montréal

## University Training

Feb. 2009 – December 2011	Post-doctoral fellow École de technologie supérieure (ETS) in Montréal CAOCo Laboratory for Computer-aided Collaborative Design Theme: Integrated and collaborative design for sustainable building, advisor Prof. Daniel Forgues
Dec. 2009	LEED-NC certification
Sept. 2002 - January 2009	Ph.D. in Environmental Design (Aménagement) Faculté de l'Aménagement, Université de Montréal Title: Assisting architectural design teaching by modeling of referents' know-how ( <i>Assistance de l'enseignement de la conception architecturale par la modélisation de savoir-faire des référents</i> ) Ph. D. scholarship from the FRSC 2003-2006
Sept. 1997 - Dec. 2000	Master's in Environmental Design (Aménagement), (Honors List) Faculté de l'Aménagement, Université de Montréal Option : Computer assisted conception, modeling and fabrication Title : Object-types in Architectural Design, and their Representation by Know-how Modeling
Sept. 1983 - June 1989	Baccalaureate and Master's in architecture University of Architecture, Civil Engineering, Geodesy and Cartography, Sofia, Bulgaria (Diploma recognized by Quebec and Canada)

## Teaching Experience

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### COURSE LECTURES

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Winter 2011	<b>ARC-6863 : Collaborative and integrated architecture – Lecturer</b>
Winter 2010	Students in Master's of Architecture, Université de Montréal
Fall 2008	As domain knowledge can be integrated into an architectural project either through collaboration with specialists from adjacent disciplines or by working in a digital environment for integrated design (or both), this course teaches these two approaches. Some theoretical notions are applied in practical assignments.
Winter 2011	<b>AME-2214 : Introduction in Computer-Aided Design – Lecturer</b>
Winter 2010	Students in first year of architecture, Université de Montréal  Redefinition of the structure and the contents of the course. Introduction of basic concepts of Computer-aided design: 2D drafting, 3D modeling, parametric forms and generative geometry.
Winter 2010	<b>CTN-735 Environment and Sustainable Buildings – Lecturer</b>
	Students in civil engineering (génie du bâtiment), ETS-Montreal  Restructuring of an existing course in order to offer situated learning of environmental practices. In addition to the mainstream course, the students will work on a project of a sustainable building, which should satisfy the requirements of various assessment scales: Novoclimat, LEED, PassiveHouse. Digital tools for performance simulation were introduced.
Winter 2006, 2007, 2008	<b>AME-2129 : Spatial Geometry – Lecturer</b>
	Students in first year of architecture, Université de Montréal  Redefinition of the structure and the contents of the course in order to answer to the challenge created by the introduction of the computer in architecture. There is a debate on this issue in the world, emphasizing the importance of geometry and spatial perception for architecture.
Winter 2008	<b>AME-6603 : Theory of modeling - Lecturer</b>
	Students in Master's of Architecture, Université de Montréal  Based on recent research and innovative practices, this course teaches digital approaches and theories from the domain. It also gives to the student the possibility to analyze and enrich his/her own methods of design.

### MULTIDISCIPLINARY DESIGN STUDIO

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Fall 2009	<b>Experimental studio in integrated design of sustainable building,</b> ETS-Montreal, tutor (responsible: Prof. D. Forgues)
	Students in architecture (from McGill University) and in civil engineering (from the ETS) were organized in multidisciplinary teams to work on a project of a building with high requirements for sustainability. Digital technology was introduced with the purpose to facilitate communication between team members and provide an environment for simulations of the building performance.

### ARCHITECTURAL DESIGN STUDIOS: MASTER'S

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Winter 2008	<b>ARC-6813-D : Integrated design and digital explorations</b> (together with Prof. Temy Tidafi)
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*Theme of the project* : « Museum of Inuit Art »

*Place* : in the Canadian Great North or on the Island of Sainte-Hélène, Montreal

Innovative studio introducing digital methods for integrated design, especially in respect to taking into account some performative aspects of a building during the conceptual phases of its design.

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### ARCHITECTURAL DESIGN STUDIOS: BACC (3<sup>rd</sup> year)

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Fall 2006, 2007, 2008

#### **ARC-3011 : « Form and Function », digital design studio**

*Theme of the project* « the home of the OSM: Architectural Symphony »

*Place*: Quartier des spectacles, Place des arts.

*Objectives*: Introduce digital methods for architectural design: use of parametric objects, generative algorithms and performative models; simulations of acoustic performance, wind, light, etc.

Fall 2005

*Theme*: «Dynamic mixture: voyagers, residents and students».

*Place*: Îlot Voyageur.

*Objectives*: Computer use from the beginning of the design project, work in 3D, parametric objects and generative algorithms

Fall 2004

*Theme*: «A transit performance: Avant-gardism in the Quartier des spectacles»

*Place*: around the St. Laurent metro station.

*Objectives*: Computer use from the beginning of the project, work in 3D

Winter 2004

*Theme*: « Living in the Montreal Harbourfront».

*Place*: *La Cité du Havre* and De la Commune Street in Old Montreal.

*Objectives*: Introduce computer use from the beginning of the design project.

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## Professional Experience

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### ARCHITECTURE

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Design of residential buildings (houses, condominiums, hotels), public buildings (schools, kinder gardens) and industrial buildings. Urban design and landscape architecture. Experience in all stages of a project.

Sept. 1996

Interior design of houses in Montreal.

Oct. 1994 - May 1996

Architect, at "Petrov, Taskov & Co.", Sofia, Bulgaria

Responsibilities :

Project leader at the design and construction company.

Realizations :

Design of residential and public buildings (new or renovations); houses, condominiums, commercial spaces, urban plans, relations with the municipalities.

Feb. 1993 - Sept. 1994

Architect, at "ET Dora Todorova", Sofia, Bulgaria

Responsibilities :

Architect, member of the design team.

Realizations :

Design of residential and public buildings (new or renovations); condominiums, interior design, urban plans.

Sept. 1989 - May 1992

Architect, at « Concrete Constructions, Ltd. », Sofia, Bulgaria

Architect, member of the design team.

Realizations :

Projects and realizations of kinder gardens, schools and industrial buildings.

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**RESEARCH AND DEVELOPMENT**


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Jan. 2011 - Dec. 2011	As post-doctoral fellow, GRIDD, ETS-Montreal
Responsibilities :	<p>Best practices of Building Information Modeling (BIM): An Investigation of ‘Best Practices’ Through Case Studies at Regional, National, and International Levels</p> <p>Operational Framework for optimizing the Energy Performance of Buildings: a project involving an architectural office and a MEP engineering company.</p> <p>Facilitation of <i>charrettes</i> during an Integrated Design Process on a project of the City of Montreal.</p>
June 2010 - Dec. 2010	As post-doctoral fellow, GRIDD, ETS-Montreal
Responsibilities :	<p>Research and development of a framework for integrated building design (<i>Recherche et élaboration d'un cadre d'application de la CI-BIM</i>)</p> <p>Project funded by the Agency for Energy Efficiency of Quebec (AEE)</p> <p>Preparation of a report on the state-of-the-art in the domain (including a qualitative study through interviews); and development of an interactive teaching environment for architects and engineers in the private practice.</p>
July 2010 - August 2011	Project for pedagogical integration of digital approaches in the undergraduate program in architectural design at the School of Architecture at the Université de Montreal (funded by SCCCUM)
Responsibilities :	Team leader
May 2008 - Dec. 2008	Canadian Center for Architecture (CCA): consultant, research assistant
Responsibilities :	<p>Elaboration of cataloguing and archiving strategies for conservation of born-digital architectural projects.</p> <p>Pilot project funded by the Foundation of Daniel Langlois on Documentation and Conservation of the Media Arts Heritage (DOCAM <a href="http://www.docam.ca/">http://www.docam.ca/</a>) and by SSHRC.</p>
Jan. 2007 - June 2007	LL Geometry : consultant
Responsibilities :	<p>Detailed modeling of the structure of the De la Concorde bridge; simulation of its evolution and deterioration with time, till its rupture.</p> <p>(In the context of the Johnson’s Commission)</p>
Sept. 2004 - March 2005	Logik 3D : consultant
Realizations :	Modeling and simulation projects of architecture, engineering, urban planning, built heritage and events management.
Sept. 2003 - August 2004	SGDL Systems : consultant
Responsibilities :	In charge of the training of the users of the technology SGDL. Research and development assistant.
Feb. 1999 - August 2003	SGDL Systems
Responsibilities :	<p>Research and development assistant for the creation of a 3D computer design technology (SGDL).</p> <p>Modeling and simulation projects of architecture, engineering, urban planning, built heritage and building management.</p> <p>Research and development of an automatic sketch-recognition design system (a project financed by PRECARN and NRCC)</p> <p>Training of the users of the technology SGDL.</p>

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### ARTISTIC PROJECT

Oct. 2005 - Dec. 2005      Research and creation project « Lost pigeons » (financed by SSHRC)  
Assistance and digital support for the design of the spaces and the decors for the performance of « Lost pigeons » in the Monument National.  
Responsible: arch. Carina Rose

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### LibreArchi

Since 2007      Creation of the library of interactive architectural referents LibreArchi  
This library (still a prototype) is conceived as an ideation and didactic tool. It is a virtual space for exchange and share of know-how, mainly on digital methods for design. Algorithmic and parametric interactive models having architectural meaning, can be freely downloaded, modified and reused (according to a Creative Commons license). Students can contribute to the library contents (after obtaining a password). LibreArchi has become a didactic tool for some of the other professors at the School of Architecture too. <http://www.arclab.umontreal.ca/LibreArchi/>

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### Research Projects

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#### POST-DOCTORAL FELLOWSHIP IN INTEGRATED DESIGN

Feb. 2009 – Dec. 2011      At the Co-laboratory at the ETS-Montreal  
Research on various aspects of multidisciplinary design and integrated design processes: educational (situated learning); cognitive (psychology of team work); technical (collaboration environment); contribution to sustainable design; requirements to digital means for facilitating the workflow; use of various sustainability assessment approaches; link with the AEC industry; Cases Studies on BIM Best Practices.

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#### PROJECT OF PERFECTING (funded by SCCCUM)

Feb. 2009 – Sept. 2009      The objective of this project is to enrich the contents and to perfect the functioning and the user-friendliness of the architectural design teaching assistant developed as a prototype during my Ph.D. research. The library of interactive architectural referents (LibreArchi) served as sharing space for my design studio but is now used by other teachers and students at the School of Architecture, which was the objective pursued by this project.

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#### PH.D. IN ENVIRONMENTAL DESIGN

Sept. 2002 – Jan. 2009      Assisting architectural design teaching by modeling of referents' know-how  
This research defines and puts into practice a student-centered method of teaching architectural design. It is based on architectural know-how transfer through interactive referents (metaphors and precedents) and was made possible by digital means. A library of interactive architectural references (LibreArchi) was created as a space for collaboration and exchange facilitating integrated design learning.

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**RESEARCH ASSISTANT**


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May - Dec. 2008	<p>Canadian Center of Architecture (CCA) and DOCAM (Documentation and Conservation of Media Arts Heritage)</p> <p>SSHRC funded research project</p> <p>Title: Cataloguing, conservation and accessibility of a born-digital project (including a case study on the Embryological House of Greg Lynn and on some projects of Peter Eisenman)</p>
June 2006 – May 2009	<p>Université de Montréal, SSHRC funded research project</p> <p>Title: Teaching design, and digital techniques : validation of strategies and cognitive digital devices for architectural design learning.</p> <p>Project leader: Prof. Giovanni De Paoli</p> <p>Definition of a pedagogical strategy for the introduction of digital methods of design into the school of architecture. Development of the cognitive devices and introduction into the digital studio. Putting into practice of the method and the cognitive device. <a href="http://www.arclab.umontreal.ca/CRSH-ARCNUM/arc_num.php">http://www.arclab.umontreal.ca/CRSH-ARCNUM/arc_num.php</a></p>
Responsibilities :	
Sept. 2005 – Oct. 2006	<p>Project funded by the Bell Chair in Interdisciplinary Research on Emerging Technologies</p> <p>Title: Traces, perspectives et process: a video analysis of the practice.</p> <p>Project leader: Prof. Lorna Heaton</p>
Responsibilities :	<p>Observations of the communication between students in the digital studio, and study of the mutations it undergoes under the influence of the digital medium. Research on the methodology in this multidisciplinary context.</p>
June 2003 – May 2006	<p>SSHRC funded research project</p> <p>Title: Teaching design, and digital techniques : hypotheses validation for the development and cognitive devices for learning architectural conception.</p> <p>Project leader: Prof. Giovanni De Paoli</p>
Responsibilities :	<p>Research on the state-of-the-art in the domain; definition of a qualitative methodology of research; observation experiences on the design process of the students in the studio; analysis and interpretation of the data; definition of a pedagogical strategy for the introduction of digital methods of design into the school of architecture.</p>
June 2005 – May 2009	<p>SSHRC funded research project</p> <p>Contribution of digital means for architectural reconstitution hypotheses in the domain of the architectural heritage: The case of Karnack</p> <p>Project leader: Prof. Temy Tidafi</p>
Responsibilities	<p>Research on the data organization for an assistant for archaeological reconstitution; Proposition of an interface for archaeologists, based on their workflow and offering the possibility to elaborate various hypotheses for reconstitution.</p>
Jan. 1999 – May 1999	<p>Project St.-Gabriel. Study of the historical evolution of the Saint Gabriel farm and a reconstitution of the Saint Gabriel house.</p> <p>Project leader: Prof. Jean-Claude Marsan</p>
July 1998 – Dec. 1998	<p>Project CCNQ. Logical modeling of the Parliament Hill in Quebec. Proposition of a norm for logical structuring of urban models.</p> <p>Project leader: Prof. Temy Tidafi</p>
Jan. 1999 – May 1999	<p>Project GI2000 – Parks Canada, Grosse-île. Historical evolution of the site and the disinfection building in Grosse-Île</p> <p>Project leader: Prof. Temy Tidafi</p>

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### SCOLARSHIPS, AWARDS, GRANTS

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2009-2010	Post-doctoral Fellowship Grant, ETS-Montreal (40 000\$ per year for 2 years)
2009	Grant for perfecting, SCCCUM (15 000)
2003-2006	FQRSC Ph.D. Scholarship (20 000\$ per year, for 3 years)
Sept. 1983 – May 1989	Scholarship for excellent results during the 5 years of education in architecture, by the Ministry of Education and Sciences in Bulgaria.
2001	In the Honors' List of the Dean of the Faculty

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### AFFILIATIONS, ORGANIZING AND SCIENTIFIC COMMITTEES

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Since 1997	Member of the CAD Research Group (GRCAO), Université de Montréal
Since 2007	Member of Design Research Canada
Since 2009	Member of Groupe de recherche en développement durable en milieu bâti (GRIDD), École de technologie supérieure – Montréal
2007	Member of the Organizing Committee of the international conference EuropIA-11, 19-21 September 2007, Montreal
2009	Organizing Committee of Ecologez 2009 (14, 15 March 2009)
2009	Member of the Reviewing Committee and of the Organizing Committee of the international conference CAAD Futures'09, 17-19 June 2009, Montreal
2009	Member of the BIM-Quebec group
2011	Member of the Biomimicry Quebec Network (Architectural 'champion')
2010	Member of the scientific committees of Creativity & Cognition Conference, Generative Components Conference, SCAN, CAADfutures2011, Design Studies Journal, P+W Journal, etc.

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### Publications

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#### PH.D. THESIS

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2009	<b>Iordanova, I.</b> (2009). Assistance de l'enseignement de la conception architecturale par la modélisation de savoir-faire des référents. Faculté de l'aménagement. Université de Montréal. <a href="http://hdl.handle.net/1866/2798">http://hdl.handle.net/1866/2798</a>
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#### MASTER'S THESIS

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**Iordanova, I.** (2000). Les objets-types en conception architecturale et leur représentation par la modélisation du savoir-faire. Faculté de l'aménagement. Université de Montréal



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**PEER-REVIEWED ARTICLES (\* in a scientific journal or book)**

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- 2012 (to come) **Iordanova I.** & D. Forgues (accepted) *Collaborative BIM for building energy optimization*, CSCE-2012 Conference, Edmonton, Alberta
- Forgues, D., **I. Iordanova**, F. Valdivesio & S. Staub-French (accepted) *Rethinking the Cost Estimating Process through 5D BIM: a Case Study*. Construction Research Conference (CRC), 21-23 May 2012, Purdue University, USA
- Forgues, D., **I. Iordanova** & F. Chiocchio (accepted) *Evolutive conceptual framework for integrative building design: Development and validation*. Construction Research Conference (CRC), 21-23 May 2012, Purdue University, USA
- Iordanova, I.**, T. Tidafi & M. Angel (submitted) *Biomimicry and the creativity in architectural design*. Design Computing and Cognition Conference, 7-9 June 2012, Texas, USA
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- 2011 \*Chiocchio, F., Forgues, D., Paradis, D., **Iordanova, I.** (2011). Teamwork in integrated design projects: Understanding the effects of trust, conflict, and collaboration on performance. *Project Management Journal*, 42(6), 78-91. doi: 10.1002/pmj.20268
- Iordanova, I.**, D. Forgues & F. Chiocchio (2011) *Creation of an Evolutive Conceptual Know-how Framework for Integrative Building Design*, In: Proceedings of CAADfutures'11, 4-8 July 2011, Liege (Belgium), 435-450
- Volker Mueller & **I. Iordanova** (2011): *Rethinking Concept Design Tools: High-level requirements for concept design tools*, in: C.M. Herr, N. Gu, S. Roudavski, M.A. Schnabel, eds.: *Circuit Bending, Breaking and Mending: Proceedings of the 16th International Conference on Computer-Aided Architectural Design Research in Asia, (CAADRIA)*, Hong Kong, 409-418.
- Forgues, D. & **I. Iordanova** (2011) *Toward an IDP-BIM Framework: A Sustainable Building Case Study*, In the Proceedings of Athiner Conference, May 2011, Athens, Greece
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- 2010 \*Aksamija, A. & **I. Iordanova** (2010) *Computational Environments with Multimodal Representations of Architectural Design Knowledge*, : *International Journal for Architectural Computing, Multi Science*, vol. 8 - no. 4, p. 439-452
- Iordanova, I.**, & Tidafi, T. (2010). *LibreArchi: Library of Interactive Architectural Models Containing Exploratory and Didactic Simulations*. Paper presented at the Spring Simulation Multiconference, p. 163-167
- Forgues, D. & **I. Iordanova** (2010). *AN IDP-BIM framework for reshaping professional design practices*, Construction Research Congress 2010 (CRC 2010), 8-11 mai. Banff, Canada.
- Iordanova, I.**, D. Forgues, T. Tidafi, M. Jemtrud & L. M. Farah (2010). *Interdisciplinary team learning in the context of integrated design studio*, Construction Research Congress 2010, 8-11 mai. Banff, Canada.
- Forgues, D., **I. Iordanova**, M. Jemtrud, M. & L. M. Farah, (2010). *Building-design decision making in the context of integrated design studio: the role of digital means*, INTERTECH'2010, 7-10 mars. Bahia, Brazil, p. 109-113
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- 2009 **Iordanova, I.**, T. Tidafi, M. Guité, G. De Paoli & J. Lachapelle. (2009). *Parametric methods of exploration and creativity during architectural design: A Case study in the design studio*. In: T. Tidafi and T. Dorta (eds.), *Joining Languages, Cultures and Visions: CAADFutures 2009*. PUM: 423-439
- Iordanova, I.**, Tidafi, T., & Guité, M. (2009). *Librairie de référents interactifs proposant des approches environnementales*. Actes de: SCAN (Séminaire de Conception Architecturale Numérique), Nancy.
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	<p>Guite, M., <b>I. Iordanova</b>, G. De Paoli, T. Tidafi &amp; J. Lachapelle. (2009). Environnement numérique d'apprentissage et de conception en architecture; Digital environment for learning and designing architecture. <i>Dans</i>: T. Tidafi and T. Dorta (eds.), <i>Joining Languages, Cultures and Visions: CAADFutures 2009</i>. T. Tidafi and T. Dorta, PUM: 369-382</p> <p>Aksamija, A. &amp; <b>I. Iordanova</b> (2009). Multimodal representations of architectural design knowledge: Interaction between visual and ontological models. <i>Dans</i>: T. Tidafi and T. Dorta (eds.), <i>Joining Languages, Cultures and Visions: CAADFutures 2009</i>, PUM: 642-655.</p>
2008	<p>* De Paoli, G, <b>Iordanova, I</b> &amp; Guite, M. (2008) Enseignement de l'architecture et technologies de l'information et de la communication: une nouvelle Re Aedificatoria. <i>In</i> :Zreik, K. <i>Ed.</i>, Hyper Urbain, Europa Productions, Paris, p. 27-51</p>
2007	<p>* <b>Iordanova, I.</b> (2007) <i>Teaching Digital Design Exploration: Form Follows...</i>, in: International Journal for Architectural Computing, Multi Science Publishing Co., 5(4), 685-702.</p> <p>* <b>Iordanova, I.</b> &amp; Tidafi, T. (2007) <i>Multimodal representation of referents for the architectural design studio: some cognitive aspects</i> International Journal of Design Sciences and Technology, Europa publ., 105-118</p> <p>* <b>Iordanova, I.</b> (2007) <i>Aide numérique à l'enseignement de la conception architecturale : capsules dynamiques de savoir-faire en tant que référents</i>, Trame, Faculté de l'Aménagement</p> <p><b>Iordanova, I.</b>, &amp; Tidafi, T. (2007). <i>Referents modeling for the architectural design studio: Cognitive bases</i>. Conference proceedings Digital Thinking in Architecture, Civil Engineering, Archaeology, Urban Planning and Design: Finding the Ways, Montreal, p. 171-185</p> <p><b>Iordanova, I.</b>, Tidafi T. &amp; G. De Paoli (2007), <i>Is a Digital Model Worth a Thousand Pictures?</i>, Computer Aided Architectural Design Futures 2007, Sydney (Australia) Conference proceedings pp.85-98.</p> <p><b>Iordanova, I.</b>, Paoli, G. D., Guité, M., Lachapelle, J., &amp; Tidafi, T. (2007). <i>Un médium numérique d'aide à la «conversation réflexive»</i>, Conference proceedings of the Association Internationale de la pédagogie universitaire.</p> <p><b>Iordanova, I.</b>, Tidafi, T., &amp; De Paoli, G. (2007). <i>Is a Digital Model Worth a Thousand Pictures?</i> Paper presented at the CAAD Futures, Sydney</p>
2006	<p><b>Iordanova, I.</b>, L. Heaton &amp; M. Guité (2006) <i>Architectural Design Spaces and Interpersonal Communication - Changes in Design Vocabulary and Language Expression</i>, Communicating Space(s), 24th eCAADe Conference Proceedings, Volos, Greece, p. 14-21</p> <p>* The same article is published: Computer Graphics and Geometry Internet Journal (<a href="http://www.cgg-journal.com/2006-2/index.htm">http://www.cgg-journal.com/2006-2/index.htm</a>), Vol.8, 2, p. 42-54</p> <p>Tidafi, T. &amp; <b>I. Iordanova</b> (2006) <i>Experimental Approach in an Architectural Design Studio - How Digital Technologies Could Change a Design Process</i>, Communicating Space(s) 24th eCAADe Proceedings, Volos, Greece, 852- 8</p> <p>* The same article is published: Computer Graphics and Geometry Internet Journal (<a href="http://www.cgg-journal.com/2006-2/index.htm">http://www.cgg-journal.com/2006-2/index.htm</a>), Vol.8, 2, p. 29-41</p>
2005	<p><b>Iordanova, I.</b> &amp; G. De Paoli (2005). <i>Hypotheses verification on the role of the medium: How to introduce computers in the architectural design studio?</i>. eCAADe 05 (Quest for New Paradigms). Lisbon, Portugal</p> <p><b>Iordanova, I.</b> &amp; Tidafi, T. (2005). <i>Using Historical Know-how to Model Design References Digital Method for Enhancing Architectural: Design Teaching</i>. CAAD Futures. Vienna, Austria</p>
2001	<p><b>Iordanova, I.</b> &amp; Tidafi, T. (2001). <i>Design assistance by complexity-supporting precedents' modelling</i>. AVOCAAD - Added value of computer aided architectural design. Brussels, Belgium</p>

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2000	<p>De Paoli, G. &amp; Iordanova, I. (2000). <i>Procedural model and intelligent design assistant, the Vitruvius' Ideas in a space shuttle – A new approach that consider semantic operators to produce geometric models</i>. Proceedings of Generative Art 2000. Milan, Italy</p> <p>Iordanova, I. &amp; Tidafi, T. (2000). <i>Functional modelling of object types in architecture - figurations supporting knowledge-based creativity</i>. Greenwich 2000 International symposium-Digital Creativity: Greenwich, UK, p. 43-53.</p> <p>* Iordanova, I. &amp; Tidafi, T. (2000). <i>Modélisation par actions d'objets-type en architecture - définition d'un environnement informatique favorisant la conception assistée par ordinateur</i>. Cahiers scientifiques de l'Association Canadienne Française pour l'Avancement des Sciences, Canada, p. 17-37</p>
<hr/> <h3>CONFERENCE PRESENTATIONS</h3> <hr/>	
2011	<p>CAADFutures'11, 17-19 July 2009, Liege, Belgium: Creation of an Evolutive Conceptual Know-how Framework for Integrative Building</p> <p>CONTECH, 24 feb. 2011, Montreal: Animation of a Panel on BIM</p>
2010	<p>Design Cognition and Computing'08, Stuttgart, Germany, 12-15 July 2010, <b>Chair of Workshop on: <i>Conceptual Computational Design Tools</i></b>, with Volker Mueller</p> <p>Spring SIMulation Multiconference, April 2010, Orlando, FL.: <i>Libre.Archi: Library of Interactive Architectural Models Containing Exploratory and Didactic Simulations</i>.</p> <p>Ecobuild, Conference, Washington, 8-10 dec. 2010: <i>Multidisciplinary design studio with technological collaborative support</i> .</p>
2009	<p>CAADFutures'09, 17-19 July 2009, Montreal: <i>Parametric methods of exploration and creativity during architectural design: A Case study in the design studio</i>.</p> <p>CAADFutures'09, 17-19 July 2009, Montreal: <i>Multimodal representations of architectural design knowledge: Interaction between visual and ontological models</i>.</p> <p>SCAN (Séminaire de Conception Architecturale Numérique), 14, 15 mai 2009, Nancy, France : Librairie de référents interactifs proposant des approches environnementales.</p>
2008	<p>DOCAM <a href="http://www.docam.ca/en/?p=421">http://www.docam.ca/en/?p=421</a></p> <p>Design Cognition and Computing'08, Atlanta, GA, 21-25 July 2008, Form-making or Form-finding Workshop (org. Jerry Leiserin), <i>Libre.Archi: A library of interactive architectural referents</i>, co-authors T. Tidafi, G.De Paoli.</p> <p>Design Cognition and Computing'08, Atlanta, GA, 21-25 July 2008, Design Thinking Workshop (org. Kalevi Nevala), <i>Design Thinking and the Medium: which processes remain unchanged?</i></p>
2007	<p>Computer Aided Architectural Design Futures 2007, Sydney (Australia) 11-13 July 2007, <i>Is a Digital Model Worth a Thousand Pictures?</i>, co-authors T. Tidafi, G. De Paoli.</p> <p>EuropIA-11: Digital Thinking in Architecture, Civil Engineering, Archaeology, Urban Planning and Design: Finding the Ways, 19-21 Sept. 2007, Montreal, <i>Referents modeling for the architectural design studio: Cognitive bases</i>, co-author T.Tidafi</p> <p>AIPU, 15-17 May 2007, Montreal, <i>Un médium numérique d'aide à la «conversation réflexive»</i>, co-authors De Paoli, G., Guité, M., Lachepelle, J., &amp; Tidafi, T.</p>
2006	<p>eCAADe in Volos, Greece, 6-9 September 2006 « Design Spaces and Interpersonal Communication: Changes in Design Vocabulary and Language Expression », co-authors Lorna Heaton &amp; Manon Guité.</p> <p>«Chantiers» conferences at the Faculté de l'aménagement, 14 April 2005. Title: «Comment assister l'enseignement de la conception architecturale ?»</p>

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	Communication at the Conférence « Art, Architecture et Ingénierie », Tunis, 4-7 March 2005 Title: « Introduction de l'informatique en atelier d'architecture »
2004	<i>Pédagogie numérique: Comprendre le passé et le présent pour imaginer le futur.</i> 72ème Congrès annuel de l'Association Canadienne Française pour l'Avancement des Sciences (ACFAS) - Section: Architecture, Aménagement et Urbanisme, Université du Québec à Montréal, 14 May 2004. Montréal, Canada.
2000	<i>Functional Modelling of Object-Types in Architecture - Figurations Supporting Knowledge-Based Creativity.</i> Greenwich 2000 International symposium- Digital Creativity : Architecture – Landscape - Design (focus symposium on Computers and the urban environment), January. Greenwich, UK.
1999	<i>Modélisation par actions d'objets-type en architecture – Création d'un environnement informatique favorisant la conception assistée par ordinateur.</i> 67ème Congrès annuel de l'Association Canadienne Française pour l'Avancement des Sciences (ACFAS), University of Ottawa, 12 May. Ottawa, Canada.
1998	<i>La modélisation d'actions au service de la conservation et de la rénovation du patrimoine bâti.</i> 66ème Congrès annuel de l'Association Canadienne Française pour l'Avancement des Sciences (ACFAS), Université Laval, . Quebec, Canada.
<b>REPORTS</b>	
2011	BIM Best Practices: An Investigation of 'Best Practices' Through Case Studies at Regional, National, and International Levels  As research fellow at the ETS-Montreal, co-authors: Prof. Sheryl Staub-French (UBC) & Prof. Daniel Forgues (ETS)
2010	Integrated Design in Quebec: State of the Art  As research fellow at the ETS-Montreal, co-author: Prof Daniel Forgues
2002	Internal report: Definition of the user requirements for an automatic sketch recognition design system: design intentions recognition and 3D model generation on the basis of sketching on a tablet PC, (SGDL Systems)  Internal report: State-of-the-art in the domain of the design intent recognition during conceptual design (machine, object, building), (SGDL Systems)
2001	Preparation of didactic tools and manuals for teaching a 3D design technology (SGDL Systems)