Curriculum Vitae

Manuele Kirsch Pinheiro

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Personal Details

Family Name:	Kirsch Pinheiro
First Name:	Manuele
Age:	30 years old
Birth Date:	November 18th, 1976
Birth Place:	Santa Maria - Brazil
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Professional Address:	LORIA
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Current Situation

- Teaching/research assistant at IUT Charlemagne (Université Nancy 2)
- Member of the ECOO[1] team from INRIA/LORIA (Nancy, France)
- PhD in Computer Science at Université Joseph Fourier – Grenoble I (Grenoble, France)

Research Domains

- Ubiquitous Computing, Context-Aware Computing
- Computer Support for Cooperative Work (CSCW)
- Web-based Information Systems
- User Adaptation, Awareness support

Language skills:	*Portuguese* (native speaker)
	English (fluent spoken/written)
	French (bilingual)
	Spanish (good understanding)
Computer skills:	*Programming Languages:*
	• Java, J2EE, C/C++, Unix Shell Script, XHTML, CSS, XML, Pascal, Visual Basic, Prolog
	Programming Environments:
	• NetBeans, JBuilder, Eclipse, C++Builder, DevCpp, Delphi, Visual Basic
	Analysis and Design:
	• UML, MDE, OMT, design patterns
	Operating Systems:
	• Linux (certified Conectiva Linux professional), Solaris (Sun Network Management training, 60h), HP-UX (several HP trainings, over 180h, on HP OpenView and HP-UX Tuning and Troubleshooting), Aix, Windows

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1   http://www.loria.fr/equipes/ecoo/

Database Systems:
- SQL, PostgreSQL, MySQL, JDBC

Office Suites:
- OpenOffice, Microsoft Office (Word, Excel, PowerPoint, Access)

Content Management Systems (CMS):
- SPIP, LibreSource, pmWiki, WikiNi, XWiki

Other tools:
- Ant, Makefile, GCC, CVS, Subversion, Apache HTTP Server, Apache Tomcat, Axis (Web Services), UNIX tools (VI, shells...).

Hobbies: Snowboard, Tae Kwon Do, Tennis

Education

2002 – 2006

PhD in Computer Science (September 2006)
Université Joseph Fourier (UJF) – Grenoble I, Grenoble, France.
Laboratory LSR (Logiciels, Systèmes, Réseaux) – IMAG (Institut d'Informatique et Mathématiques Appliquées de Grenoble)

- <u>Advisor:</u> Professor Hervé Martin
- <u>Associate Professor</u>: Jérôme Gensel
- <u>Dissertation</u>: "Personalized and Context-Aware Adaptation Process for Awareness Information on Web-Based Groupware Systems"
- <u>Keywords</u>: context-aware computing, context representation, groupware systems, awareness support, user adaptation
- <u>Abstract</u>: The evolution of mobile technologies, like web-enable cellphones, PDAs and wireless networks, makes it now possible to use these technologies for collaborative work through Web-based groupware systems. However, due to the limitations of these technologies and to the mobility that these technologies grant to users, some adaptation is essential in these systems. In order to adapt their behaviour to the user's context, groupware systems must be built as context-aware systems. Moreover, this adaptation concerns particularly awareness mechanisms since nomadic users have more acute need for adapted awareness information. Dues to the constraints related to new technologies, adaptation ought to act on the contents itself, by selecting it and organizing it according to its relevance for nomadic users. Besides, this relevance depends on the user's current context, since user's preferences and needs may change accordingly to this context. In this work, we present a two-fold approach for adapting awareness information delivered to a nomadic user by web-based groupware systems, through a filtering mechanism which considers both the current context and preferences for this context. We propose an object-based representation for the notion of context, which takes into account the user's physical context as well as the user's collaborative context, including elements dedicated to the collaborative process in which the user is involved (notions of group, role, activity, etc.). The user's preferences are represented by a set of pre-defined profiles, which are exploited by the adaptation process in order to organize the delivered awareness information into several levels of detail, based on a progressive access model. These profiles represent the descriptions of user's potential contexts and of the filtering rules to apply when the user's current context matches a potential context. This matching is performed by a set of semantic operations (named equals, contains, and sim, simO and simT similarity measures), which compares both instances of the context model. Then, the proposed filtering mechanism is performed in two steps: first, it analyzes the user's current context and, thank to these semantic operations, it selects, among the user's pre-defined profiles, those which have been defined for a situation found in this context. Second, it selects awareness information according to the selected profiles and it uses the progressive access model in order to organize the selected information. Finally, we propose a framework, named BW-M, which implements our proposition based on an object-based knowledge representation system named AROM, and a Web service, named *BWMFacade*, that encapsulates this framework for helping groupware designers.

1998 – 2001

MSc in Computer Science
Graduate School in Computer Science, Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Brazil.
- <u>Advisor:</u> Professor José Valdeni de Lima
- <u>Dissertation</u>: "Framework for Past Events Awareness Support"

- Keywords: information systems, cooperative work, groupware systems, awareness support
- Abstract: This work introduces a framework for awareness support in groupware systems, called BW. Awareness gathers the group knowledge, its activities and its overall status. Awareness support is an important feature for groupware systems, since it provides a context for individual contributions, improving these contributions and avoiding contradictory interactions among group members. Despite its importance, awareness support is not systematic and developers must build it from scratch for each new application. The BW framework addresses this issue. It intends to support groupware designers to easily build past event awareness mechanisms. Past event awareness refers to the awareness information about the activities performed in the past, which results may have changed or not be valid anymore. The BW framework has been designed to develop new groupware applications and to improve existing ones. Thus, this framework can be included into asynchronous groupware system that needs a past events awareness support. The BW framework was implemented in Java and tested into the COPSE/CUTE groupware system, validating the statements presented in this work.
- Dissertation evaluated with grade "A"

1994 – 1998	**BSc in Computer Science** *Universidade Federal de Santa Maria, Santa Maria, Brazil.*

- Advisor: Assistant Professor Iara Augustin
- Dissertation: "Simulating a compiler in the Web"
- Keywords: compiler, e-learning, Web-based information systems

Working Experiences

September 2006 – August 2007	**Teaching/Research Assistant** *Lecturer at the IUT Nancy Charlemagne - Université Nancy 2* *ECOO team – INRIA/LORIA, Nancy, France*

- Teaching experience (about 192h): Groupware Systems, Content Management Systems (CMS), Introduction to Information Technology to undergraduate students on Information-Communication.
- Supervision of six students (BSc level) in Library and Web projects.
- Research activities: Research about: (i) context knowledge diffusion over a P2P network; (ii) change awareness inside collaborative editors, and particularly those over P2P network; (iii) similarity measures using object-based knowledge representation approach.
- Keywords: context-aware computing, context-representation, Web-based groupware systems, change awareness support, object-based knowledge representation

February – June 2005	**Teaching Assistant** *Lecturer at the Institut de Géographie Alpine, Université Joseph Fourier (UJF) – Grenoble I, Grenoble, France.*

- Teaching experience (about 16h): Introduction to Computer Sciences, Visual Basic programming.

June 2001 – May 2002	**Research Visitor** *INRIA Rhône-Alpes, Montbonnot Saint-Martin, France* *Project WAM (Web, Adaptation and Multimedia)* *Cooperation CNPQ – INRIA, CEMT Project*

- Advisor: Vincent Quint
- Research activities: Research about the support to cooperative work in an e-learning authoring environment (CEMT Project), implementing WebDAV protocol into the LibWWW library and into the Amaya Web editor.
- Keywords: e-learning, multimedia, cooperative work

2000	**Trainer** *Interop Informática, Porto Alegre, Brazil.*

- Activities: customer training and technical support on HP-UX and on Linux.
- Keywords: network administration, HP-UX tuning and troubleshooting, Linux firewall configuration

September – December 1999	**Research Visitor**
	Núcleo de Computação Eletrônica (NCE), UFRJ (Universidade Federal do Rio de Janeiro), Rio de Janeiro, Brazil
	• <u>Advisor:</u> Professor Marcos R.S. Borges
	• <u>Activities</u>: proposition of an awareness support taxonomy for groupware systems.
	• <u>Keywords</u>: awareness support, cooperative work
April 1998 – July 1999	**Teaching Assistant**
	Lecturer at the Centro Universitário Franciscano (UNIFRA), Santa Maria, Brazil.
	• <u>Teaching experience</u> (about 240h): Artificial Intelligence, Object-Oriented Programming Languages and Design Patterns to undergraduate students on Computer Science.
	• <u>Supervision</u> of five students (BSc level) in Information Systems, Databases and Internet research projects.

Research Projects

2007-	**XwikiConcerto Project**
	French project (RNTL founding) aiming at to develop a Wiki editor over a P2P network supporting mobile access through cellphones, PDAs or other mobile devices. This project involves ECOO team (LORIA), ATLAS team (INRIA), ENST, EISTI, XperNet, Mandriva and Objectweb. My participation on this project focuses on studying context-aware adaptation and change awareness over P2P networks.
2003-2006	**VULNERALP Project**
	French project (Rhône-Alpes region founding) aiming at studying seismic vulnerability assessment in Grenoble basin. This project involves the following partners: LSR-IMAG, LGIT, LGM-ENTPE, TERRITOIRES-IGA (scientific partners), Veritas and Geomeric (industrial partners). My participation in this project has focused on the development of a Geographical Information System for seismic vulnerability assessment and on the supervision of graduate students collaborating in this project.
	<u>Supervision</u> of 3 graduate students (master degree) in classification on object-based knowledge representation systems, database systems, geographical information systems
	<u>URL</u>: http://www-lgit.obs.ujf-grenoble.fr/~pgueg/VULNERALP/.
2000-2003	**STIMULI Project**
	French-Brazilian project founded by CAPES-COFECUB which aims at studying and designing distributed multimedia information systems. The partners of this project included the Brazilian universities UFRGS (Porto Alegre), UNESP (Sao Paulo) and UFC (Fortaleza), as well as the French laboratories LSR – IMAG (Grenoble), INT (Evry). My PhD work belongs to this project effort.
2000-2002	**CEMT Project**
	French-Brazilian project founded by CNPq-INRIA which aims at developing an open and distributed environment for collaborative e-leaning authoring. This project is a collaboration between the Brazilian university UFRGS (Porto Alegre) and the WAM team at INRIA Rhônes-Alpes (Grenoble, France). My participation on this project has focused on the document sharing and on the awareness support for the collaborative authoring environment. During a one-year internship at the WAM team, I have developed (using C programming language) the WebDAV protocol support for W3C LibWWW library and for W3C Amaya Web editor. Both have been used in the CEMT authoring environment proposed in this project.

Collective Responsibilities

- Member of the organization staff for the C2i[1] formation at IUT Nancy Charlemagne.
- Member of the "Ubiquity and Mobility" workgroup (GT 4.2 from the GdR I3).
- Member of the LSR-IMAG laboratory council from 2003 to 2006.
- Co-administrator of the SIGMA team Web server from 2003 to 2006.
- Member of the program committee for the "XXIIème Congrès Informatique des organisations et systèmes d'information et de décision" (INFORSID 2005), May 2005, Grenoble, France.

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1   C2i (Certificat Informatique et Internet) is a French national certification for microcomputing and Internet - http://c2i.education.fr/

- Member of the program committee for the "Deuxièmes Journées Francophones : Mobilité et Ubiquité 2005 (UbiMob'05)", June 2005, Grenoble, France.
- Member of the program committee for the "11ème Simpósio de Informática et 6ème Mostra de Software Acadêmico (SIMS 2006)", November 2006, Uruguaiana, Brazil.
- Member of the program committee for the "10ème Simpósio de Informática et 5ème Mostra de Software Acadêmico (SIMS 2005)", October 2005, Uruguaiana, Brazil.
- Member of the program committee for the "9ème Simpósio de Informática et 4ème Mostra de Software Acadêmico (SIMS 2004)", October 2004, Uruguaiana, Brazil.
- Member of the organization committee from the "III Simpósio Nacional de Informática", 1998, Santa Maria, Brazil.
- Member of the steering committee from the "II Ciclo de Palestras do Curso de Informática", 1997, Santa Maria, Brazil.
- Member of the organization committee from the "I Aula Aberta do Curso de Informática", 1996, Santa Maria, Brazil.
- System administrator and Web-designer for the Computer Sciences Faculty – UFSM, from 1994 to 1996, Santa Maria, Brazil.

Publications

Papers on International Journals

2003 | [1] Kirsch-Pinheiro, M.; Lima, J.V.; Borges, M.R.S. "A Framework for Awareness Support in Groupware Systems". Computer in Industry, vol. 52 n° 1, Elsevier, 2003, 47-57.
URL : http://hal.archives-ouvertes.fr/hal-00120270

Papers on National Journals

2001 | [2] Kirsch-Pinheiro, M.; Telecken, T.; Zeve, C.D.C; Lima, J.V.L.; Edelweiss, N. "A Cooperative Environment for E-Learning Authoring". Documents Numériques: Espaces d'Information et de Coopération, vol. 5, n° 3-4, Hermes Science, France, 2002, 89-114.

Abstracts on National Journals

2001 | [3] Lima, J.V. de; Kirsch-Pinheiro, M.; Telecken, T.; Edelweiss, N.; Zeve, C.D.C; Borges, T. B.; Maciel, C. B. "O uso de open source e standards para o ensino a distância dentro do projeto CEMT". Cadernos de Informática, vol. 2, n° 1, Instituto de Informática – URGS, Porto Alegre, Brazil, 103-105, 2001.

Papers on International Conferences/Workshops

2006 | [4] Kirsch-Pinheiro, M.; Villanova-Oliver, M.; Gensel, J.; Martin, H. "A Personalized and Context-Aware Adaptation Process for Web-Based Groupware Systems", 4th Int. Workshop on Ubiquitous Mobile Information and Collaboration Systems (UMICS'06), CAiSE'06 Workshop, Luxembourg, June 5-6, 884-898.
URL : http://hal.archives-ouvertes.fr/hal-00120290

2005 | [5] Kirsch-Pinheiro, M.; Villanova-Oliver, M.; Gensel, J.; Martin, H. "Context-Aware Filtering for Collaborative Web Systems: Adapting the Awareness Information to the User's Context", 20th ACM Symposium on Applied Computing (SAC 2005) - Web Technologies and Applications (WTA), Santa Fe, New Mexico, Mars 2005, ACM Press, 2005, 1668-1673.
URL : http://hal.archives-ouvertes.fr/hal-00120283

[6] Kirsch-Pinheiro, M.; Villanova-Oliver, M.; Gensel, J.; Martin, H. "BW-M: A framework for awareness support in web-based groupware systems". 9th Int. Conference On Computer Supported Cooperative Work In Design (CSCWD), 2005, Coventry, UK, 240-246.
URL: http://hal.archives-ouvertes.fr/hal-00120284

2004 | [7] Kirsch-Pinheiro, M., Gensel, J., Martin, H., "Representing Context for an Adaptative Awareness Mechanism", In: G.-J. de Vreede; L.A. Guerrero, G.M.Raventos (Eds.), LNCS 3198 - X International Workshop on Groupware (CRIWG 2004), San Carlos, Costa Rica, September 2004, Springer-Verlag, 2004, 339-348.
URL : http://hal.archives-ouvertes.fr/hal-00120277

[8] Kirsch-Pinheiro, M., Gensel, J., Martin, H., "Awareness on Mobile Groupware Systems", In: A. Karmouch, L. Korba, E.R.M. Madeira (Eds.), LNCS 3284 - 1st International Workshop on Mobility Aware Technologies and Applications (MATA 2004), Florianópolis, Brazil, October 2004. Springer-Verlag, 2004, 78-87.
  URL : http://hal.archives-ouvertes.fr/hal-00120278

2003 [9] Kirsch-Pinheiro, M.; Villanova-Oliver, M.; Gensel, J.; Lima, J.V.; Martin, H. "Providing a Progressive Access to Awareness Information". In: R. Meersman et al. (Eds.), LNCS 2888 - CoopIS/DOA/ODBASE 2003, Springer-Verlag, 2003, 336-353.
  URL: http://hal.archives-ouvertes.fr/hal-00120272

2002 [10] Kirsch-Pinheiro, M.; Lima, J.V.; Borges, M.R.S., "A Framework for Awareness Support in Groupware Systems", 7th International Conference on Computer Supported Cooperative Work in Design, UFRJ, Rio de Janeiro, Brazil, 2002. 13-18.

2001 [11] Kirsch-Pinheiro, M.; Lima, J.V.; Borges, M.R.S. "Awareness em Sistemas de Groupware" (Awareness on Groupware Systems). In: Proceedings of IDEAS'01, Centre de Información Tecnológica (CIT), San Diego, Costa Rica, 2001, 323-335

[12] Lima, J.V.L.; Quint, V.; Layaïda, N.; Edelweiss, N.; Kirsch-Pinheiro, M.; Telecken, T., "The Conception of Cooperative Environment for Editing Multimedia Documents with Workflow Technology (CEMT) CNPq-INRIA Project", In: Prugner, N. et al (eds.), PROTEM-CC- Projects Evaluation Workshop - 2001, International Cooperation NSF/INRIA, CNPq, Rio de Janeiro, Brazil, 2001. 542-560.

Papers on National Conferences/Workshops

2005 [13] Kirsch-Pinheiro, M. "Adaptation contextuelle de l'information de conscience de groupe dans les SIW collaboratifs". Actes du XXIIème Congrès Informatique des organisations et systèmes d'information et de décision – INFORSID 2005, Grenoble, France, 2005. 285-300.
  URL : http://hal.archives-ouvertes.fr/hal-00120289

[14] Kirsch-Pinheiro, M.; Villanova-Oliver, M.; Gensel, J.; Martin, H. "Une formalisation du cotexte dans les environnements coopératifs nomades". Actes des Deuxièmes Journées Francophones: Mobilité et Ubiquité 2005 (UbiMob'05), Grenoble, France, 2005. 1-8.
  URL : http://hal.archives-ouvertes.fr/hal-00120288

1999 [15] Kirsch-Pinheiro, M.; Lima, J.V. "Mecanismos para monitoramento e contextualização em ambientes cooperativos". IV Simpósio Nacional de Informática, 1999, UNIFRA/UFSM, Santa Maria, Brazil. 46-50.

[16] Kirsch-Pinheiro, M.; Lima, J.V. "Mecanismo de Monitoramento e Contextualização em Ambientes Cooperativos". IV Semana Acadêmica do PPGC, PPGC/UFRGS, 1999, Porto Alegre, Brazil, 331-334.

Abstracts on International Conferences

2004 [17] Kirsch-Pinheiro, M., Villanova-Oliver, M., Gensel, J., Martin, H., "A Context-Based Awareness Mechanism for Mobile Cooperative Users", In: R. Meersman, Z. Tari, A. Corsaro (Eds.), LNCS 3292 - On the Move to Meaningful Internet Systems 2004: OTM 2004 Workshops: OTM Confederated International Workshops and Posters, GADA, JTRES, MIOS, WORM, WOSE, PhDS, and INTEROP 2004, October 2004. Springer-Verlag, 2004, 9-10.
  URL : http://hal.archives-ouvertes.fr/hal-00120282

Abstracts on National Workshops

1998 [18] Bortolotto, M.; Kirsch-Pinheiro, M. "Ferramenta Para Consulta Ao Desempenho Do Vestibular Pela Internet". II Simpósio de Ensino, Pesquisa e Extensão, UNIFRA, 1998, Santa Maria, Brazil.

1997   [19] Kirsch-Pinheiro, M.; Augustin, I. "Compilação Simulada Na Web". IV Jornada Integrada de Pesquisa, Extensão e Ensino, 1997, UFSM, Santa Maria, Brazil.

1996   [20] Kirsch-Pinheiro, M.; Egert, F.; Lobato, C. R.; Stein, B. O. "Ferramenta Para Auxílio À Administração De Redes". III Jornada Integrada de Pesquisa, Extensão e Ensino, 1996, UFSM, Santa Maria, Brazil.

[21] Kirsch-Pinheiro, M.; Pozzebon, S.; Wathier, A.; Lobato, C. R. "Projeto Courseware". III Jornada Integrada de Pesquisa, Extensão e Ensino, 1996, UFSM, Santa Maria, Brazil.

[22] Kirsch-Pinheiro, M.; Bertagnolli, S. C.; Lima, J. C. D. "Sistema de Cadastro de Máquinas e Software". III Jornada Integrada de Pesquisa, Extensão e Ensino, 1996, UFSM, Santa Maria, Brazil.

[23] Pozzer, C.T.; Pollo, L.F.; Castro, S.B.; Buriol, L.S.; Azolin, B.; Pereira, A.C.; Fernandes, S.P.; Kirsch Pinheiro, M.; Noal, E.C. "Modelagem de objetos 3D a partir de pontos dados". III Jornada Integrada de Pesquisa, Extensão e Ensino, 1996, UFSM, Santa Maria, Brazil.

1995   [24] Cintra, C. C.; Kirsch-Pinheiro, M.; Coeli, L.; Kolling, M. C.; Lobato, C. R. "Couseware - Utilização de Hipetexto e da Rede do CT para a Sedimentação dos Conhecimentos Adquiridos nas Disciplinas do Curso de Informática". II Jornada Integrada de Pesquisa, Extensão e Ensino, 1995, UFSM, Santa Maria, Brazil.

1994   [25] Kirsch-Pinheiro, M; Cintra, C. C.; Lobato, C. R. "Couseware". I Jornada Integrada de Pesquisa, Extensão e Ensino, 1994, UFSM, Santa Maria, Brazil.

Thesis and Research Reports

2006   [26] Kirsch Pinheiro, M. "Adaptation contextuelle et personnalisée de l'information de conscience de groupe au sein des Systèmes d'Information Coopératifs". Thèse en informatique, Université Joseph-Fourier, Grenoble, France, 2006, p. 288.
     URL : http://tel.archives-ouvertes.fr/tel-00108495

2002   [27] Telecken,T.L.; Lima, J.V.; Zeve, C.; Maciel, C.B.; Borges, T.B.; Edelweiss, N.; Kirsch-Pinheiro, M. "Implementação de um editor de workflow baseado no padrão SVG", Rapport technique, PPGC/UFRGS, Porto Alegre, Brazil, 2002, p.23.

2001   [28] Kirsch Pinheiro, M. "Mecanismo de Suporte a Percepcao em Ambientes Cooperativos". Dissertation PPGC/UFRGS, Porto Alegre, Brazil, 2001, p. 167.
     URL : http://www.loria.fr/~kirschpm/papers/MscKirschPinheiro.pdf

1999   [29] Kirsch Pinheiro, M.; Lima, J.V. "Edição Cooperativa de Hiperdocumentos na WWW". Rapport technique, PPGC/UFRGS, Porto Alegre, Brazil, 1999, p.53.

1997   [30] Kirsch Pinheiro, M.; Augustin, I. "Compilação Simulada na Web". Rapport technique, Curso de Informática da UFSM, Santa Maria, Brazil, 1997, p. 99.

Referees

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