

*In italics: PhD students*

## Publications: 227

Book: **1**

Co-edited book/proceedings: **7**

Book chapter: **12**

Journal: **13**

International conference: **99**

73 long articles, 21 short articles

5 demonstrations/abstracts/posters

National conference: **60**

44 long articles, 13 short articles

3 demonstrations

International workshop: **31**

National workshop: **4**

Web: **1**

Research report, PhD thesis, Habilitation: **4**

*Several research reports, deliverables and working papers of European projects.*

## BOOK AND THESIS

Authors: IFIP working group 2.7 (co-author)

Title: Design Principles for Interactive Software

**Book:** Chapman&Hall, ISBN 0-142-72470-7, July 1996, 242 pages.

Author: Laurence Nigay

Title: Conception et modélisation logicielles des systèmes interactifs : application aux interfaces multimodales

**PhD thesis:** 28 January 1994, 303 pages.

Author: Laurence Nigay

Title: Modalité d'interaction et multimodalité

**Habilitation à diriger des recherches:** 20 December 2002, 70 pages.

Author: *Frédéric Vernier* (advisor 100%)

Title: La multimodalité en sortie et son application à la visualisation de grandes quantités d'information

**Defended PhD thesis:** 21 February 2001, 240 pages. (Lecturer, Université de Paris-Sud, LIMSI)

Author: *Emmanuel Dubois* (co-advisor 50% with J. Troccaz TIMC)

Title: Chirurgie Augmentée, Un Cas de Réalité Augmentée ; Conception et Réalisation Centrées sur l'Utilisateur

**Defended PhD thesis:** 6 July 2001, 275 pages. (Professor, Université de Toulouse 3, Toulouse)

Author: *Yann Laurillau* (advisor 100%)

Title: Conception et réalisation logicielles de collecticiels centrées sur l'activité de groupe : le modèle d'architecture et la plate-forme Clover

**Defended PhD thesis:** 10 September 2002, 250 pages. (Lecturer, Université Grenoble Alpes, Grenoble)

<p>Author: <i>Chaouki Daassi</i> (co-advisor 50% with M-C Fauvet LIG)  Title: Techniques d'interaction avec un espace de données temporelles  <b>Defended PhD thesis:</b> 16 July 2003, 194 pages. (Industry: project manager)</p>
<p>Author: <i>Philippe Renevier</i> (advisor 100%)  Title: Systèmes Mixtes Collaboratifs sur Supports Mobiles : Conception et Réalisation  <b>Defended PhD thesis:</b> 28 June 2004, 220 pages. (Lecturer, Université de Nice)</p>
<p>Author: <i>Jullien Bouchet</i> (advisor 100%)  Title: Ingénierie de l'Interaction Multimodale en Entrée, Approche à composants ICARE  <b>Defended PhD thesis:</b> 7 December 2006, 297 pages. (Industry: EADS-CASSIDIAN)</p>
<p>Author: <i>Meriam Horchani</i> (co-advisor 50% with France Telecom R&amp;D Lannion)  Title: Vers une communication humain-machine naturelle : stratégies de dialogue et de présentation multimodales  <b>Defended PhD thesis:</b> 17 Decembre 2007, 303 pages. (Non-permanent teacher, Ecole Navale)</p>
<p>Author: <i>Céline Coutrix</i> (advisor 100%)  Title: Systèmes mixtes : Conception et Prototypage  <b>Defended PhD thesis:</b> 7 May 2009, 279 pages. (CNRS researcher, LIG, Grenoble)</p>
<p>Author: <i>Gilles Bailly</i> (co-advisor 50% with E. Lecolinet Télécom-ParisTech)  Title: Techniques de menus : Caractérisation, Conception et Evaluation  <b>Defended PhD thesis:</b> 26 May 2009, 280 pages. (CNRS researcher, ISIR Lab, UPMC, Paris)</p>
<p>Author: <i>Guillaume Gauffre</i> (co-advisor 25% with E. Dubois 55% and R. Bastide 20% Université de Toulouse 1)  Title: Couplage de la modélisation et de l'implémentation des systèmes interactifs mixtes  <b>Defended PhD thesis:</b> 1December 2009, 330 pages. (Industry)</p>
<p>Author: <i>Alexis Clay</i> (co-advisor 30% with N. Couture 60% and M. Delest 10% Université de Bordeaux)  Title: La branche émotion, un modèle conceptuel pour l'intégration de la reconnaissance multimodale d'émotions dans des applications interactives : application au mouvement et à la danse augmentée  <b>Defended PhD thesis:</b> 7 December 2009, 184 pages. (Lecturer, ESTIA Biarritz)</p>
<p>Author: <i>Marcos Serrano</i> (advisor 100%)  Title: Interaction multimodale en entrée : Conception et Prototypage  <b>Defended PhD thesis:</b> 30 June 2010, 283 pages. (Lecturer, IRT Toulouse)</p>
<p>Author: <i>Frédéric Jourde</i> (co-advisor 50% with Y. Laurillau LIG)  Title: Collecticiel et Multimodalité : spécification de l'interaction, la notation COMM et l'éditeur e-COMM  <b>Defended PhD thesis:</b> 9 June 2011, 301 pages. (Industry)</p>
<p>Author: <i>Pierre-Alain Avouac</i> (co-advisor 50% with P. Lalanda LIG)  Title: Plateforme autonome dirigée par les modeles pour la construction d'interfaces multimodales dans les environnements pervasifs  <b>Defended PhD thesis:</b> 7 February 2013, 136 pages. (Industry)</p>
<p>Author: <i>Thomas Vincent</i> (co-advisor 75% with T. Kurata AIST-Japan 25%)  Title: Handheld Augmented Reality Interaction: Spatial Relations  <b>Defended PhD thesis:</b> 2 October 2014, 197 pages. (Scientific visualisation software developer ESRF-Synchrotron)</p>
<p>Author: <i>William Delamare</i> (co-advisor 50% with C. Coutrix 50% LIG)  Title: Distant Interaction in an Augmented Physical Environment  <b>Defended PhD thesis:</b> 2 November 2015, 188 pages. (Jan. 2016 - Oct 2017 Post-Doctoral Research Fellow at HCI Lab, University of Manitoba, Winnipeg, Canada, since Oct. 2017 Post-Doctoral Research Fellow, Kochi University of Technology, Japan)</p>

Author: *Sébastien Pelurson* (advisor 100%)

Title: Multimodal Interaction with a Bifocal View on Mobile Devices

**Defended PhD thesis:** 2 September 2016, 140 pages. (Sept. 2016 - May 2017 Post-Doctoral Research Fellow, Labex PERSyval, Grenoble, now Industry: R&D Kaizen Solutions)

Author: *Maxime Guillon* (advisor 100%)

Title: Target expansion for facilitating the pointing and selection tasks – Application to distant interaction in augmented surgery

**Defended PhD thesis:** 7 November 2017, 226 pages.

## CO-EDITED BOOK/PROCEEDINGS

Editors: H. Johnson, L. Nigay and C. Roast  
Title: Human Computer Interaction'98, People and Computers XIII,  
**Co-edited proceedings:** BCS Conference Series, Springer-Verlag, ISBN 978-3-540-76261-4, 1998, 342 pages.

Editors: R. Little and L. Nigay  
Title: Engineering for Human-Computer Interaction, Eighth IFIP Conference on Engineering for Human Computer Interaction (EHCI'01)  
**Co-edited proceedings:** Lecture Notes in Computer Science (LNCS), Vol. 2254, Springer-Verlag, ISBN 978-3-540-43044-5, 2001, 379 pages.

Editors: G. Cockton, P. Korhonen, E. Bergman, S. Björk, P. Collings, A. Dey, S. Draper, J. Gulliksen, T. Keinonen, J. Lazar, A. Lund, R. Molich, K. Nakakoji, L. Nigay, R. Oliveira Prates, J. Rieman and C. Snyder  
Title: CHI 2003 Extended Abstracts CD-ROM  
**Co-edited proceedings:** ACM Press: New York, ISBN: 1-58113-637-4, 2003.

Editors: G. Canals, A. Giboin, L. Nigay, A-M. Pinna J-Y. Tigli  
Title: Mobilité et Ubiquité 2004, Actes des Premières Journées Francophones  
**Co-edited proceedings:** Cepaduès-Editions ISBN: 2-85428-653-7, 2004. ACM Press ISBN 1-58113-915-2.

Editors: N. Bryan-Kinns, A. Blandford, P. Curzon, L. Nigay  
Title: Human Computer Interaction 2006, People and Computers XX - Engage  
**Co-edited proceedings:** Springer, ISBN 1-84628-588-7, 2006, 278 pages.

Editors: E. Dubois, P. Gray and L. Nigay  
Title: The Engineering of Mixed Reality Systems, 20 chapitres.  
**Co-edited book:** Human-Computer Interaction Series, Springer-Verlag, ISBN 978-1-84882-732-5, 2010, 450 pages.

Editors: J. Ziegler, M. Nebeling and L. Nigay  
Title: 7th ACM SIGCHI Symposium on Engineering Interactive Computing Systems (EICS 2015)  
**Co-edited proceedings:** ACM Press: New York, 2015, 301 pages.

## BOOK CHAPTER

Authors: J. Coutaz, L. Nigay, D. Salber

Title: Agent-Based Architecture Modelling for Interactive Systems

**Book chapter:** Critical Issues in User Interface Engineering, P. Palanque & D. Benyon Eds., Springer-Verlag: London Publ., ISBN 3-540-19964-0, 1995, pp. 191-209

Authors: L. Nigay, J. Coutaz

Title: Chapter Nine Multifeature Systems: The CARE Properties and Their Impact on Software Design

**Book chapter:** Intelligence and Multimodality in Multimedia Interfaces: Research and Applications, AAAI Press Publ. CD-ROM, et Web. J. Lee Ed, 1997. This book is available in ISO 9660 CD format only.

Authors: L. Nigay, J. Coutaz

Title: Software architecture modelling: Bridging Two Worlds using Ergonomics and Software Properties

**Book chapter:** Formal Methods in Human-Computer Interaction, P. Palanque & F. Paterno Eds., Springer-Verlag: London Publ., ISBN 3-540-76158-6, 1997, pp. 49-73.

Authors: J. Coutaz et L. Nigay

Title: Chapitre 7, Architecture logicielle conceptuelle des systèmes interactifs.

**Book chapter:** Analyse et conception de l'IHM : interaction homme-machine pour les SI 1 (Traité IC2, série informatique et systèmes d'information), Hermes Editeur, ISBN 2-7462-0239-5, 2001, pp. 207-246.

Authors: J-P. Chevallet et L. Nigay

Title: Chapitre 2, Chapitre 2, Les interfaces pour la recherche d'information

**Book chapter:** Interaction homme-machine et recherche d'information (Traité des sciences et techniques de l'information), Hermes Editeur, ISBN 2-7462-0426-6, 2002, pp. 65-102.

Authors: M. Zouinar, P. Salembier, L. Pasqualetti, L. Nigay, G. Calvet, J. Kahn, G. Rey

Title: Chapitre 4, Interaction Multimodale sur des artefacts mobiles

**Book chapter:** Objets Communicants, Hermes Ed., ISBN 2-7462-0475-4, 2002, pp. 63-73.

### English version 2003

Title: Part 1 Interaction: Chapter 4. Multimodal Interaction on Mobile Artefacts.

**Book chapter:** Communicating with smart objects-developing technology for usable pervasive computing systems, Hermes Penton/Kogan Page Science, 2003, ISBN 1-9039-9636-8.

Authors: L. Nigay, P. Renevier, L. Pasqualetti, P. Salembier, T. Marchand,

Title: Chapitre 19 : Réalité Augmentée en Situation Mobile et Collaborative

**Book chapter:** Objets Communicants, Hermes Ed., ISBN 2-7462-0475-4, 2002, pp. 267-274.

### English version 2003

Title: Part 4 Evolution of Smart Devices: Chapter 19. Mobile and Collaborative Augmented Reality.

**Book chapter:** Communicating with smart objects-developing technology for usable pervasive computing systems, Hermes Penton/Kogan Page Science, 2003, ISBN 1-9039-9636-8.

Authors: L. Nigay

Title: Architecture Logicielle des Systèmes Interactifs

**Book chapter:** Encyclopédie de l'informatique et des systèmes d'information, Chapitre 2 de la Section 3 Interaction Homme-Machine, Partie 1 La dimension technologique des systèmes d'information, Editions Vuibert, Paris, November 2006, ISBN13 978-2-7117-4846-4, pp. 294-309.

Authors: L. Nigay, C. Coutrix, P. Renevier

Title: Systèmes interactifs mixtes : fusion des mondes physique et numérique

**Book chapter:** Interfaces numériques (Collection information, hypermédias et communication), Chapitre 3, Hermès Science, 15 June 2007, ISBN13 978-2-7462-1695-2, 18 pages.

Authors: L. Nigay, J. Bouchet, D. Juras, B. Mansoux, M. Ortega, M. Serrano, J-Y. L. Lawson  
Title: Software Engineering for Multimodal Interactive Systems  
**Book chapter:** Multimodal user interfaces: from signals to interaction, Chapter 9, Springer, Lecture Notes in Electrical Engineering, April 2008, ISBN13: 9783540783442, pp. 201-218.

Authors: C. Coutrix, L. Nigay  
Title: An Integrating Framework for Mixed Systems  
**Book chapter:** The Engineering of Mixed Reality Systems, Chapter 1, Human-Computer Interaction Series, Springer-Verlag, ISBN: 978-1-84882-732-5, 2010, pp. 9-32.

Authors: J. Coutaz, L. Nigay  
Title: Multimodalité et plasticité des interfaces homme-machine en informatique ambiante : concepts et espaces de conception  
**Book chapter:** Information Interaction Intelligence le point sur le i3, Chapitre 5, Editions Cépaduès, ISBN: 978-2-36493-009-4, 2012, pp. 179-214.

## JOURNAL

Authors: L. Nigay  
Title: Hypertext and Hypermedia Related Issues at CHI'94  
**Journal:** SIGLINK, September 1994.

Authors: V. Bellotti, A. Blandford, D. Duke, A. MacLean, J. May and L. Nigay  
Title: Interpersonal Access Control in Computer Mediated Communications: A Systematic Analysis of the Design Space.  
**Journal:** HCI Human-Computer Interaction, Volume 11, N° 4, 1996, Lawrence Erlbaum Publ., pp. 357-432.

Authors: L. Nigay, J. Coutaz  
Title: Espaces conceptuels pour l'interaction multimédia et multimodale.  
**Journal:** TSI, numéro spécial Multimédia et Collecticiel, Volume 15, N° 9, 1996, AFCET&Hermes Publ, pp. 1195-1225.

Authors: P. Cinquin, E. Dubois, S. Lavallée, L. Nigay, J. Troccaz  
Title: Surgétique. De l'intérêt de la coopération entre médecin et machine au service du malade dans la réalisation de gestes médico-chirurgicaux.  
**Journal:** Les Cahiers du Numérique-L'information médicale numérique, Volume 2, N° 2, 2001, pp. 197-207.

Authors: E. Dubois, L. Nigay, J. Troccaz  
Title: Assessing Continuity and Compatibility in Augmented Reality Systems.  
**Journal:** UAIS, International Journal on Universal Access in the Information Society, Special Issue on "Continuous Interaction in Future Computing Systems". Springer-Verlag., 2002, Volume 4, pp. 263-273.

Authors: E. Dubois, P. Gray, L. Nigay  
Title: ASUR++: A Design Notation for Mobile Mixed Systems.  
**Journal:** Interacting with Computers, Elsevier Publ., Volume 15, Issue 4, August 2003, pp. 497-520.

Authors: E. Dubois, L. Nigay, J. Troccaz  
Title: Un Regard Unificateur sur la Réalité Augmentée : Classification et Principes de Conception  
**Journal:** Revue d'Interaction Homme-Machine, RIHM, Europa Productions, Volume 4, N° 1, 2003, ISBN 1289-2963, pp. 85-118.

Authors: C. Daassi, L. Nigay, M-C Fauvet  
Title: A taxonomy of temporal data visualization techniques  
**Journal:** Revue Information-Interaction-Intelligence, Revue en Sciences du Traitement de l'Information (A journal in the Sciences of Information Engineering), Cepadues-Editions, Volume 5, N° 2, 2005, pp. 41-63. *Publication: April 2006.*

Authors: A. Benoit, L. Bonnaud, A. Caplier, I. Damousis, F. Jourde, J-Y L. Lawson, L. Nigay, M. Serrano, D. Tzovaras  
Title: Multimodal signal processing and interaction for a driving simulator : component-based architecture  
**Journal:** Journal on Multimodal User Interface, Springer-Verlag, Vol. 1, No 1, March 2007, pp. 49-58, ISSN-Electronic 1783-8738, ISSN-paper 1783-7677.

Authors: T-J. Chin, Y. You, C. Coutrix, J-H. Lim, J-P. Chevallet and L. Nigay  
Title: Mobile phone-based mixed reality: the Snap2Play game  
**Journal:** The Visual Computer, International Journal of Computer Graphics, Springer Berlin / Heidelberg Publ., ISSN 0178-2789 (Print) 1432-2315 (Online), Vol. 25, No 1, January 2009, pp. 25-37.

Authors: *M. Serrano*, L. Nigay  
Title: OpenWizard: A Wizard of Oz Component-Based Approach for Rapidly Prototyping and Testing Input Multimodal Interfaces  
**Journal:** Journal on Multimodal User Interface, Springer-Verlag, Volume 3, Number 3 / April, 2010, pp. 215-225.

Authors: *F. Jourde*, Y. Laurillau, L. Nigay  
Title: Description of tasks with multi-user multimodal interactive systems: existing notations  
**Journal:** Journal of Interaction between Persons and Systems (JIPS), [jips.episciences.org](http://jips.episciences.org), Volume 3 Number 3, 2014, pp. 1-33. Published July 2015.

Authors: *G. Bailly*, E. Lecolinet, L. Nigay  
Title: Visual Menu Techniques  
**Journal:** ACM Computing Surveys, CSUR, ACM, Volume 49 Issue 4, Article No. 60, February 2017, 41 pages.



INTERNATIONAL CONFERENCE  
LONG ARTICLE

Authors: L. Nigay, J. Coutaz

Title: Building user interfaces: Organizing software agents

**International conference:** Proceedings of ESPRIT'91, Bruxelles, November, 1991, pp. 707-719.

Authors: A. Gourdol, L. Nigay, D. Salber, J. Coutaz

Title: Two cases studies of software architecture for multimodal interactive systems: VoicePaint and a Voice enabled graphical notebook

**International conference:** Proceedings of EHCI'92, IFIP TC2/WG2.7 Working Conference on Engineering for Human Computer Interaction, J. Larson & C. Unger Eds., North Holland Publ., August 10-14, 1992, pp. 271-284.

Authors: A. Gourdol, L. Nigay, D. Salber, J. Coutaz

Title: Multimodal Systems: Aspects of Events Fusion and Taxonomy

**International conference:** Proceedings of IFIP Congress'92, J. Van Leeuwen Ed., North Holland Publ., Sept., 1992, pp. 156-162.

Authors: G. Abowd, J. Coutaz, L. Nigay

Title: Structuring the Space of Interactive System Properties

**International conference:** Proceedings of EHCI'92, IFIP TC2/WG2.7 Working Conference on Engineering for Human Computer Interaction, J. Larson & C. Unger Eds., North Holland Publ., August, 1992, pp. 113-130.

Authors: L. Nigay, J. Coutaz

Title: A design space for multimodal interfaces: concurrent processing and data fusion

**International conference:** Proceedings of INTERCHI'93, Amsterdam, S. Ashlung, K. Mullet, A. Henderson, E. Hollnagel, T. White Eds., ACM New York Publ., April, 1993, pp. 172-178.

Authors: J. Coutaz, L. Nigay, D. Salber

Title: The MSM framework: A Design Space for Multi-Sensori-Motor Systems

**International conference:** Proceedings of EWHCI'93, Human Computer Interaction, 3rd International Conference EWHCI'93, East/West Human Computer Interaction, Moscow. L. Bass, J. Gornostaev, C. Unger Eds., Lecture Notes in Computer Science (LNCS), Vol. 753, Springer-Verlag Publ., 1993, pp. 231-241.

Authors: L. Nigay J. Coutaz

Title: A Generic Platform for Addressing the Multimodal Challenge

**International conference:** Proceedings of CHI'95, ACM New York Publ., Denver, May 1995, pp. 98-105.

Authors: J. Coutaz, L. Nigay, D. Salber, A. Blandford, J. May, R. Young

Title: Four Easy Pieces for Assessing the Usability of Multimodal Interaction: The CARE properties.

**International conference:** Proceedings of the INTERACT'95 conference, S. A. Arnesen & D. Gilmore Eds., Chapman&Hall Publ., Lillehammer, Norway, June 1995, pp. 115-120

Authors: P. Mulhem et L. Nigay

Title: Interactive Information Retrieval Systems: From User Centred Interface Design to Software Design

**International conference:** Proceedings of SIGIR'96 conference, ACM Press Publ., Zurich, August 18-22 1996, pp. 326-334.

<p>Authors: G. Calvary, J. Coutaz et L. Nigay  Title: From Single-User Architectural Design to PAC*: a Generic Software Architecture Model for CSCW.  <b>International conference:</b> Proceedings of CHI'97, ACM New York Publ., Atlanta, March 1997, pp. 242-249.</p>
<p>Authors: L. Nigay, <i>F. Vernier</i>  Title: Design method of interaction techniques for large information space.  <b>International conference:</b> Proceedings of AVI'98, Advanced Visual Interfaces, ACM New York Publ., l'Aquila, May 1998, pp. 37-46.</p>
<p>Authors: <i>E. Dubois</i>, L. Nigay, J. Troccaz, O. Chavanon, L. Carrat  Title: Design Space for Augmented Surgery, an Augmented Reality Case Study  <b>International conference:</b> Proceedings of INTERACT'99, Edinburgh, A. Sasse &amp; C. Johnson Eds, IFIP IOS Press Publ., 1999, pp. 353-359.</p>
<p>Authors: <i>F. Vernier</i>, L. Nigay  Title: A Framework for the Combination and Characterization of Output Modalities  <b>International conference:</b> Proceedings of DSV-IS2000, Limerick (IR), 5-6 June 2000, Lecture Notes in Computer Sciences, Springer-Verlag Publ., pp. 32-48.</p>
<p>Authors: T.C. N. Graham, L. Watts, G. Calvary, J. Coutaz, <i>E. Dubois</i>, L. Nigay  Title: A Dimension Space for the Design of Interactive Systems within their Physical Environments  <b>International conference:</b> Proceedings of DIS'2000, 17-19 August 2000, ACM New York Publ., pp. 406-416.</p>
<p>Authors: <i>E. Dubois</i>, L. Nigay, J. Troccaz  Title: Consistency in Augmented Reality Systems  <b>International conference:</b> Proceedings of EHCI'01, IFIP WG2.7 (13.2) Working Conference, Toronto, May 2001, Lecture Notes in Computer Science (LNCS), Vol. 2254, Springer-Verlag Publ., pp. 117-130.</p>
<p>Authors: <i>P. Renevier</i>, L. Nigay  Title: Mobile Collaborative Augmented Reality: the Augmented Stroll  <b>International conference:</b> Proceedings of EHCI'01, IFIP WG2.7 (13.2) Working Conference, Toronto, May 2001, Lecture Notes in Computer Science (LNCS), Vol. 2254, Springer-Verlag Publ., pp. 315-334.</p>
<p>Authors: <i>C. Daassi</i>, M-C. Fauvet, L. Nigay  Title: Visual Mining: Multiple Representation of Temporal Data  <b>International conference:</b> Proceedings of the 13th International Conference on Database and Expert Systems Applications - DEXA 2002, ISBN 3-540-44126-32002, pp. 701-709.</p>
<p>Authors: L. Nigay, P. Salembier, T. Marchand, <i>P. Renevier</i>, L. Pasqualetti  Title: Mobile and Collaborative Augmented reality: A Scenario Based Design Approach  <b>International conference:</b> Proceedings of Mobile HCI, Pisa, September 2002, Lecture Notes in Computer Science (LNCS), Vol. 2411, Springer-Verlag Publ., pp. 241-255.</p>
<p>Authors: <i>E. Dubois</i>, P. Gray, L. Nigay  Title: ASUR++: a Design Notation for Mobile Mixed Systems  <b>International conference:</b> Proceedings of Mobile HCI, Pisa, September 2002, Lecture Notes in Computer Science (LNCS), Vol. 2411, Springer-Verlag Publ., pp. 123-139.</p>
<p>Authors: <i>Y. Laurillau</i>, L. Nigay  Title: Clover Architecture for Groupware  <b>International conference:</b> Conference Proceedings of CSCW'02, New Orleans, USA, November 2002, ACM Publ, ISBN:1-58113-560-2, pp. 236-245.</p>
<p>Authors: <i>Y. Laurillau</i>, L. Nigay  Title: CoVitesse: A Groupware for Collaborative Navigation on the WWW  <b>International conference:</b> Conference Proceedings of HCI International 03, Theory and Practice (Part II), Volume 2, Edited by Constantine Stephanidis Julie Jacko, LEA Lawrence Erlbaum Associates, Crete, June 2003, pp. 954-958.</p>

Authors: L. Nigay, E. Dubois, P. Renevier, L. Pasqualetti, J. Troccaz  
Title: Mixed Systems: Combining Physical and Digital Worlds  
**International conference:** Conference Proceedings of HCI International 03, Theory and Practice (Part I), Volume 1, Edited by Julie Jacko, Constantine Stephanidis, LEA Lawrence Erlbaum Associates, Crete, June 2003, pp. 1203-1207.

Authors: P. Renevier, L. Nigay, J. Bouchet, L. Pasqualetti  
Title: Generic Interaction Techniques for Mobile Collaborative Mixed Systems  
**International conference:** Computer-Aided Design of User Interfaces IV. Proceedings of CADUI'2004, Computer-Aided Design of User Interfaces, Funchal, Portugal, January 2004, Kluwer Academic Publishers, pp. 307-320.

Authors: L. Nigay  
Title: Design space for multimodal interaction  
**International conference:** Conference Proceedings of IFIP Congress'2004, Building the Information Society, Edited by René Jacquart, Toulouse, France, 22-27 August 2004, Kluwer Academic Publishers, ISBN 1-4020-8156-1, pp. 403-408.

Authors: C. Daassi, L. Nigay, M-C. Fauvet  
Title: Visualization process of Temporal Data  
**International conference:** Conference Proceedings of DEXA'2004, 15th International Conference on Database and Expert Systems Applications, Zaragoza, Spain, August 30-September 3 2004, Lecture Notes in Computer Science (LNCS), Vol. 3180, Springer Publ, ISBN 3-540-22936-1, pp. 914-924.

Authors: J. Bouchet, L. Nigay, T. Ganille  
Title: ICARE software components for rapidly developing multimodal interfaces  
**International conference:** Conference Proceedings of ICMI'2004, the Sixth International Conference on Multimodal Interfaces, State College, Pennsylvania, USA, October 14-15 2004, ACM Press, pp. 251-258.

Authors: B. Mansoux, L. Nigay, J. Troccaz  
Title: Interaction between a Surgeon and a Computer Assisted Surgery System: an Interactive Design Space  
**International conference:** Conference Proceedings of SURGETICA 2005, 19-21 January 2005, Sauramps Medical, ISBN-284023408.

Authors: B. Mansoux, L. Nigay, J. Troccaz  
Title: The Mini-Screen: an Innovative Device for Computer Assisted Surgery Systems  
**International conference:** Conference Proceedings of the 13th annual Medicine Meets Virtual Reality Conference (MMVR'2005), J.D. Westwood Ed., IOS Press, 2005.

Authors: L. Madani, L. Nigay and I. Parisis  
Title: Testing the CARE Properties of Multimodal Applications by Means of a Synchronous Approach  
**International conference:** Conference Proceedings of SE 2005, IASTED International Conference on Software Engineering, Innsbruck, Austria, February 17-19 2005, ACTA Press, ISBN 0-88986-464-0, pp. 181-186.

Authors: R. Bastide, L. Nigay, D. Bazalgette, Y. Bellik and C. Nouvel  
Title: The INTUITION design process: Structuring Military Multimodal Interactive Cockpits Design According to the MVC Design Pattern.  
**International conference:** Conference Proceedings of UAIS 2005, the third International Conference on Universal Access in Human-Computer Interaction, jointly with HCI International 2005, the 11th International Conference on Human-Computer Interaction, Las Vegas, Nevada, USA, July 22-27 2005. CD Proceedings Volume 7 - Universal Access in HCI: Exploring New Interaction Environments. MIRA Digital publishing.

Authors: J. Bouchet, L. Nigay and T. Ganille  
Title: The ICARE Component-Based Approach for Multimodal Input Interaction: Application to Real-Time Military Aircraft Cockpits.  
**International conference:** Conference Proceedings of UAIS 2005, the third International Conference on Universal Access in Human-Computer Interaction, jointly with HCI International 2005, the 11th International Conference on Human-Computer Interaction, Las Vegas, Nevada, USA, July 22-27 2005. CD Proceedings Volume 7 - Universal Access in HCI: Exploring New Interaction Environments. MIRA Digital publishing.

Authors: L. Madani, C. Oriat, I. Parissis, J. Bouchet and L. Nigay  
Title: Synchronous Testing of Multimodal Systems: an Operational Profile-Based Approach.  
**International conference:** Conference Proceedings of ISSRE 2005, 16th IEEE International Symposium on Software Reliability Engineering, Chicago, Illinois, USA, November 8-11 2005, IEEE Computer Society, pp. 325-334.

Authors: C. Coutrix and L. Nigay  
Title: Mixed Reality : A Model of Mixed Interaction  
**International conference:** Conference Proceedings of AVI 2006, Advanced Visual Interfaces, Venezia, Italy, 23-26 May 2006, ACM Press, pp. 43-50.

Authors: G. Godet-Bar, S. Dupuy-Chessa and L. Nigay  
Title: Towards a System of Patterns for the Design of Multimodal Interfaces  
**International conference:** Chapter 3. Computer-Aided Design of User Interfaces V. Proceedings of 6th International Conference on Computer-Aided Design of User Interfaces CADUI'2006, G. Calvary, C. Pribeanu, G. Santucci, J. Vanderdonck Eds., Bucharest, 6-8 June 2006, Information Systems Series, Springer-Verlag, Berlin, 2006, pp. 27-40.

Authors: G. Bailly, D. Auber and L. Nigay  
Title: From Visualization to Manipulation of RNA Secondary and Tertiary Structures  
**International conference:** Conference Proceedings of IV'06, the 10th IEEE International Conference on Information Visualisation, London, UK, 4-6 July, 2006. IEEE Press, pp. 107-114.

Authors: B. Mansoux, L. Nigay and J. Troccaz  
Title: Output Multimodal Interaction: The Case of Augmented Surgery  
**International conference:** Conference Proceedings of HCI'06, Human Computer Interaction, People and Computers XX, the 20th BCS HCI Group conference in co-operation with ACM, , London, UK, 11-15 September, 2006, Springer Publ., pp. 177-192.

Authors: M. Serrano, L. Nigay, R. Demumieux, J. Descos and P. Losquin  
Title: Multimodal Interaction on Mobile Phones: Development and Evaluation Using ACICARE  
**International conference:** Conference Proceedings of MobileHCI'06, 8th International Conference on Human Computer Interaction with Mobile Devices and Services, Espoo, Finland, 12-15 September, 2006, ACM Press, ISBN 1-59593-390-5, pp. 129-136.

Authors: F. Jourde, L. Nigay and I. Parissis  
Title: Test formel de systèmes interactifs multimodaux : couplage ICARE – Lutess  
**International conference:** Conference Proceedings of ICSSÉA'2006, 19th International Conference on Software & Systems Engineering and their Applications: Service & System globalization, Paris, France, December 5-7, 2006, 8 pages.

Authors: M. Horchani, L. Nigay, F. Panaget  
Title: A platform for output dialogic strategies in natural multimodal dialogue systems  
**International conference:** Conference Proceedings of IUI'07, International Conference on Intelligent User Interfaces, A. Puerta & T. Lau Editors, ACM Press, pp. 206-215.

Authors: A. Clay, N. Couture, L. Nigay  
Title: Emotion capture based on body postures and movements  
**International conference:** Conference Proceedings of TIGERA 2007, International Conference on Computing and e-systems, March 12-15, 2007, 20 pages.

Authors: J. Bouchet, L. Madani, L. Nigay, C. Oriat, I. Parissis  
Title: Formal Testing of Multimodal Interactive Systems  
**International conference:** Conference Proceedings of EIS'07, Engineering Interactive Systems 2007, a joint conference IFIP WG2.7/13.4 10th Conference on Engineering Human Computer Interaction, IFIP WG 13.2 1st Conference on Human Centred Software Engineering and DSVIS - 14th Conference on Design Specification and Verification of Interactive Systems (DSVIS 2007), Spain, March 22-24, 2007, LNCS (Lecture Notes in Computer Science), Volume 4940/2008, Springer-Verlag Berlin Heidelberg Publ., pp. 36-52.

Authors: G. Bailly, E. Lecolinet, L. Nigay  
Title: Wave Menus: Improving the Novice Mode of Hierarchical Marking Menus  
**International conference:** Conference Proceedings of INTERACT '07, the eleventh IFIP TC13 International Conference on Human-Computer Interaction, C. Baranauskas P. Palanque, J. Abascal, S. Diniz, J. Barbosa (Eds.), Springer LNCS (Lecture Notes in Computer Science 4662), Brasil, September 10-14, 2007, pp. 475-488.

Authors: M. Horchani, B. Caron, L. Nigay, F. Panaget  
Title: Natural Multimodal Dialogue Systems: A Configurable Dialogue and Presentation Strategies Component  
**International conference:** Conference Proceedings of ICMI'07, the Ninth International Conference on Multimodal Interfaces, Nagoya, Japan, ACM Press, November 12-15 2007, pp. 291-298.

Authors: T-J. Chin, Y. You, C. Coutrix, J-H. Lim, J-P. Chevallet and L. Nigay  
Title: Snap2Play: A Mixed-Reality Game based on Scene Identification  
**International conference:** Conference Proceedings of MMM'08, the 14th International IEEE and ACM Multimedia Modeling Conference, Springer LNCS (Lecture Notes in Computer Science), Advances in Multimedia Modeling, Volume 4903/2008, Kyoto, Japan, January 9-11 2008, pp. 220-229.

Authors: G. Bailly, E. Lecolinet, L. Nigay  
Title: Flower Menus: A New Type of Marking Menu with Large Menu Breadth, Within groups and Efficient Expert Mode Memorization  
**International conference:** Conference Proceedings of ACM-AVI 2008, ACM Press, Napoli, Italy, May 28-30, 2008, pp. 15-22.

Authors: M. Coiana, A. Conconi, L. Nigay and M. Ortega  
Title: Test-Bed for Multimodal Games on Mobile Devices  
**International conference:** Conference Proceedings of Fun&Games 2008, International Conference on Fun and Games, Eindhoven, the Netherlands, October 20-21, 2008, LNCS (Lecture Notes in Computer Sciences), Volume 5294/2008, Springer-Verlag Berlin Heidelberg Publ., pp. 75-87.

Authors: M. Serrano, D. Juras, L. Nigay  
Title: A Three Dimensional Characterization Space of Software Components for Rapidly Developing Multimodal Interfaces  
**International conference:** Conference Proceedings of ICMI'08, the Tenth International Conference on Multimodal Interfaces, Chania, Crete, Greece, October 20-22, 2008, ACM Press, pp. 149-156.

Authors: M. Ortega, L. Nigay  
Title: AirMice: Finger Gesture for 2D and 3D Interaction  
**International conference:** Conference Proceedings of INTERACT '09, the Twelfth IFIP TC13 International Conference on Human-Computer Interaction, Springer LNCS (Lecture Notes in Computer Science), Vol. 5727, Sweden, August 26-28, 2009, pp. 214-227.

Authors: D. Lalanne, L. Nigay, P. Palanque, P. Robinson, J. Vanderdonckt, J-F. Ladry  
Title: Fusion engines for multimodal input: a survey  
**International conference:** Proceedings of ICMI'09, the 2009 international conference on Multimodal interfaces, Cambridge, USA, November 2-4, 2009, ACM Press, pp. 153-160.

Authors: M. Serrano, L. Nigay  
Title: Temporal aspects of CARE-based multimodal fusion: from a fusion mechanism to composition components and WoZ components  
**International conference:** Conference Proceedings of ICMI'09, the 2009 international conference on Multimodal interfaces, Cambridge, USA, November 2-4, 2009, ACM Press, pp. 177-184.

Authors: D. Benyon, K. Höök, L. Nigay  
Title: Spaces of Interaction  
**International conference:** Conference Proceedings of ACM-BCS Visions of Computer Science 2010, Edinburgh, UK, April 13-16, 2010, Published by the British Informatics Society Ltd. 7 pages.



Authors: *J. Francone, G. Bailly, E. Lecolinet, N. Mandran, L. Nigay*  
Title: Wavelet Menus on Handheld Devices: Stacking Metaphor for Novice Mode and Eyes-Free Selection for Expert Mode  
**International conference:** Conference Proceedings of ACM-AVI 2010, ACM Press, Roma, Italy, May 25-29, 2010, pp. 173-180.

Authors: *F. Jourde, Y. Laurillau, L. Nigay*  
Title: COMM Notation for Specifying Collaborative and MultiModal Interactive Systems  
**International conference:** Conference Proceedings of ACM-EICS 2010, ACM SIGCHI Symposium on Engineering Interactive Computing Systems, ACM Press, Berlin, Germany, June 21-23, 2010, pp. 125-134.

Authors: *P-A. Avouac, P. Lalanda, L. Nigay*  
Title: Towards autonomic multimodal interaction  
**International conference:** Conference Proceedings of MAASC 2011, the 1st Workshop on Middleware and Architectures for Autonomic and Sustainable Computing, ACM Press, Paris, France, May 12, 2011, pp. 25-29.

Authors: *C. Coutrix, L. Nigay*  
Title: OP: A Novel Programming Model for Integrated Design and Prototyping of Mixed Objects  
**International conference:** Conference Proceedings of INTERACT '11, the 13th IFIP TC13 International Conference on Human-Computer Interaction, Springer LNCS (Lecture Notes in Computer Science), Vol. 6948, Portugal, September 5-9, 2011, pp. 54-72.

Authors: *P-A. Avouac, P. Lalanda, L. Nigay*  
Title: Service-Oriented Autonomic Multimodal Interaction in a Pervasive Environment  
**International conference:** Conference Proceedings of ICMI'11, the 13th international conference on Multimodal interfaces, Spain, November 14-18, 2011, ACM Press, pp. 369-376.

Authors: *P-A. Avouac, P. Lalanda, L. Nigay*  
Title: Adaptable multimodal interfaces in pervasive environments  
**International conference:** Conference Proceedings of CCNC 2012, IEEE Consumer Communications and Networking Conference, IEEE, USA, January 14-17, 2012, pp. 544-548.

Authors: *P-A. Avouac, P. Lalanda, L. Nigay*  
Title: Autonomic Management of Multimodal Interaction: DynaMo in action  
**International conference:** Conference Proceedings of ACM-EICS 2012, ACM SIGCHI Symposium on Engineering Interactive Computing Systems, ACM Press, Copenhagen, Denmark, June 25-28, 2012, pp. 35-44.

Authors: *A. Clay, N. Couture, L. Nigay, J-B de la Rivière, J-C Martin, M. Courgeon, M. Desainte\_Catherine, E. Orvain, V. Girondel, G. Domenger*  
Title: Interactions and systems for augmenting a live dance performance  
**International conference:** Conference Proceedings of IEEE-ISMAR 2012, 11th IEEE International Symposium on Mixed and Augmented Reality, IEEE, Atlanta, USA, November 5-8, 2012, 10 pages.

Authors: *W. Delamare, C. Coutrix, L. Nigay*  
Title: Designing Disambiguation Techniques for Pointing in the Physical World  
**International conference:** Conference Proceedings of ACM-EICS 2013, ACM SIGCHI Symposium on Engineering Interactive Computing Systems, ACM Press, London, UK, June 24-27, 2013, pp. 197-206.

Authors: *W. Delamare, C. Coutrix, L. Nigay*  
Title: Mobile Pointing Task in the Physical World: Balancing Focus and Performance while Disambiguating  
**International conference:** Conference Proceedings of MobileHCI'13, 15th International Conference on Human Computer Interaction with Mobile Devices and Services, ACM Press, Munich, Germany, August 27-30, 2013, pp. 89-98.

Authors: *T. Vincent, L. Nigay, T. Kurata*  
Title: Precise pointing techniques for handheld Augmented Reality  
**International conference:** Conference Proceedings of INTERACT '13, the 14th IFIP TC13 International Conference on Human-Computer Interaction, Springer LNCS (Lecture Notes in Computer Science), Vol. 8117, Cape Town, South Africa, September 2-6, 2013, pp. 122-139.

**Best long paper award.**

Authors: *P. Lalanda, L. Nigay, M. Martinet*  
Title: Multimodal Interactions in Dynamic, Service-Oriented Pervasive Environments  
**International conference:** Conference Proceedings of SCC'14, the 11th IEEE International Conference on Services Computing, IEEE, Anchorage, USA, June 27- July 2, 2014, pp. 251-258.

Authors: *M. Guillon, F. Leitner, L. Nigay*  
Title: Static Voronoi-Based Target Expansion Technique for Distant Pointing  
**International conference:** Conference Proceedings of ACM-AVI'14, ACM Press, Como, Italy, May 27-30, 2014, pp. 41-48

Authors: *K. Makita, T. Vincent, S. Ebisuno, M. Kourogi, T. Ishikawa, T. Okuma, M. Yoshida, L. Nigay, T. Kurata*  
Title: Mixed Reality Navigation on a Tablet Computer for Supporting Machine Maintenance in Wide-area Indoor Environment  
**International conference:** Conference Proceedings of ICServ'14, the 2nd International Conference on Serviceology, Yokohama, Japan, September 14-16, 2014, pp. 41-47.

Authors: *M. Guillon, F. Leitner, L. Nigay*  
Title: Investigating Visual Feedforward for Target Expansion Techniques  
**International conference:** Conference Proceedings of ACM-CHI'15, the 33th International Conference on Human Factors in Computing Systems, ACM Press, Seoul, Korea, April 18-23, 2015, pp. 2777-2786.

Authors: *W. Delamare, C. Coutrix, L. Nigay*  
Title: Designing Disambiguation Techniques for Pointing in the Physical World  
**International conference:** Conference Proceedings of ACM-EICS 2015, ACM SIGCHI Symposium on Engineering Interactive Computing Systems, ACM Press, Duisburg, Germany, June 23-26, 2015, pp. 44-53.

Authors: *S. Pelurson, L. Nigay*  
Title: Multimodal Interaction with a Bifocal View on Mobile Devices  
**International conference:** Conference Proceedings of ACM-ICMI 2015, the 17th International Conference on Multimodal Interfaces, ACM Press, Seattle, USA, November 9-13, 2015, pp. 191-198.

Authors: *S. Robinson, C. Coutrix, J. Pearson, J. Rosso, M. F. Torquato, L. Nigay, M. Jones*  
Title: Emargeables: Deformable Displays for Continuous Eyes-Free Mobile Interaction  
**International conference:** Conference Proceedings of ACM-CHI'16, the 34th International Conference on Human Factors in Computing Systems, ACM Press, San Jose, CA, USA, May 7-12, 2016, pp. 3793-3805.

**Honorable mention award (top 4% of 2325 submissions)**

Authors: *W. Delamare, T. Janssoone, C. Coutrix, L. Nigay*  
Title: Designing 3D Gesture Guidance: Visual Feedback and Feedforward Design Options  
**International conference:** Conference Proceedings of ACM-AVI'16, the International Working Conference on Advanced Visual Interfaces, ACM Press, Bari, Italy, June 7-10, 2016, pp. 152-159.

Authors: *M. Guillon, F. Leitner, L. Nigay*  
Title: Target Expansion Lens: It is Not the More Visual Feedback the Better!  
**International conference:** Conference Proceedings of ACM-AVI'16, the International Working Conference on Advanced Visual Interfaces, ACM Press, Bari, Italy, June 7-10, 2016, pp. 52-59.

Authors: *S. Pelurson, L. Nigay*  
Title: Bimanual Input for Multiscale Navigation with Pressure and Touch Gestures  
**International conference:** Conference Proceedings of ACM-ICMI 2016, the 18th International Conference on Multimodal Interfaces, ACM Press, Tokyo, Japan, November 12-16, 2016, pp. 145-152.

Authors: M. Ortega, J. Maisonnasse, L. Nigay

Title: EXHI-bit: a mechanical structure for prototyping EXpandable handheld interfaces

**International conference:** Conference Proceedings of ACM-MobileHCI 2017, the 19th International Conference on Human-Computer Interaction with Mobile Devices and Services, ACM Press, Vienna, Austria, September 4-7, 2017, Article No. 4, 11 pages.



INTERNATIONAL CONFERENCE  
SHORT ARTICLE

Authors: L. Nigay

Title: PAC-Amodeus, A Software Architecture Model for Multimodal Systems

**International conference:** Adjunct Proceedings of INTERCHI'93, (Doctoral Consortium), Amsterdam, S. Ashlung, K. Mullet, A. Henderson, E. Hollnagel, T. White Eds. ACM New York Publ., April, 1993, page 217.

Authors: E. Dubois, L. Nigay

Title: Augmented Reality: Which Augmentation for Which Reality?

**International conference:** Proceedings of DARE'2000, Designing Augmented reality Environments, W.E. Mackay Ed., ACM Publ., pp. 165-166.

Authors: F. Vernier, L. Nigay

Title: Modifiable Treemaps Containing Variable-Shaped Units

**International conference:** Proceedings of Extended Abstracts of IEEE Information Visualization (InfoVis 2000), 8 - 13 October, 2000, Salt Lake City, Utah, USA, New York: IEEE, pp. 188-189.

Authors: E. Dubois, L. Nigay, J. Troccaz, L. Carrat, O. Chavanon

Title: A methodological tool for computer-assisted surgery interface design: its application to computer-assisted pericardial puncture

**International conference:** Conference Proceedings of the 9th annual Medicine Meets Virtual Reality Conference (MMVR'2001), J.D. Westwood Ed., IOS Press, 2001, pp. 136-139.

Authors: E. Dubois, L. Nigay, D. Ribeiro, J. Troccaz

Title: Etude empirique de la Continuité dans la Réalité Augmentée

**International conference:** Conférence IHM-HCI 2001, Lille, 10-14 Sept. 2001, CEPADUES Publ, pp. 9-12.

Authors: G. Calvet, J. Kahn, M. Zouinar, P. Salembier, J.-C. Briois, L. Nigay, G. Rey, L. Pasqualetti

Title: Etude empirique de l'usage de la multimodalité avec un ordinateur de poche

**International conference:** Conférence IHM-HCI 2001, Lille, 10-14 Sept. 2001, CEPADUES Publ, pp. 5-8.

**Best short paper award.**

Authors: L. Nigay, P. Renevier, T. Marchand, P. Salembier, L. Pasqualetti

Title: La réalité cliquable : instrumentation d'une activité de coopération en situation de mobilité

**International conference:** Conférence IHM-HCI 2001, Lille, 10-14 Sept. 2001, CEPADUES Publ, pp. 147-150.

Authors: S. Daudé and L. Nigay

Title: Design process for auditory interfaces

**International conference:** Conference Proceedings of the 9th International Conference on Auditory Display (ICAD 2003), Boston, USA, July 2003, Boston University Publications, pp. 176-179.

Authors: J. Bouchet and L. Nigay

Title: ICARE: A Component-Based Approach for the Design and Development of Multimodal Interfaces

**International conference:** Conference Proceedings of ACM-CHI'04, Extended Abstracts, Vienna, Austria, April 2004, ACM Press, pp. 1325-1328.

Authors: G. Bailly, L. Nigay and D. Auber

Title: NAVRNA : Viualization – Exploration – Edition of RNA

**International conference:** Conference Proceedings of AVI 2006, Advanced Visual Interfaces, Venezia, Italy, 23-26 May 2006, ACM Press, pp. 504-507.

Authors: M. Serrano, L. Nigay, J-Y L. Lawson, A. Ramsay, R. Murray-Smith, S. Deneff

Title: The OpenInterface framework: a tool for multimodal interaction

**International conference:** CHI 2008 Proceedings-Works In Progress, Florence, Italy, April 5-10, 2008, pp. 3501-3506.

Authors: C. Coutrix, L. Nigay  
Title: Balancing Physical and Digital Properties in Mixed Objects  
**International conference:** Conference Proceedings of ACM-AVI 2008, ACM Press, Napoli, Italy, May 28-30 2008, pp. 305-308.

Authors: F. Jourde, Y. Laurillau, A. Moran, L. Nigay  
Title: Towards Specifying Multimodal Collaborative User Interfaces: A Comparison of Collaboration Notations  
**International conference:** Conference Proceedings of DSV-IS2008, The XVth International Workshop on Design, Specification and Verification of Interactive Systems, Kingston, Canada, July 16-18, 2008, LNCS (Lecture Notes in Computer Sciences), Volume 5136/2008, Springer-Verlag Berlin Heidelberg, pp. 281-286.

Authors: Y. You, T-J. Chin, J-H. Lim, J-P. Chevallet, C. Coutrix and L. Nigay  
Title: Deploying and Evaluating a Mixed Reality Mobile Treasure Hunt: Snap2Play  
**International conference:** Conference Proceedings of MobileHCI'08, 10th International Conference on Human Computer Interaction with Mobile Devices and Services, Amsterdam, the Netherlands, September 2-5, 2008, ACM Press, pp. 335-338.

Authors: D. Juras, L. Nigay, M. Ortega, M. Serrano  
Title: Multimodal Slideshow: Demonstration of the OpenInterface Interaction Development Environment  
**International conference:** Conference Proceedings of ICMI'08, the Tenth International Conference on Multimodal Interfaces, Chania, Crete, Greece, October 20-22, 2008, ACM Press, pp. 193-194.

Authors: A. Roudaut, G. Bailly, E. Lecolinet and L. Nigay  
Title: Leaf Menus: Linear Menus with Stroke Shortcuts for Small Handheld Devices  
**International conference:** Conference Proceedings of INTERACT '09, the Twelfth IFIP TC13 International Conference on Human-Computer Interaction, Springer LNCS (Lecture Notes in Computer Science), Vol. 5726, Sweden, August 26-28, 2009, pp. 616-619.

Authors: A. Clay, N. Couture, L. Nigay  
Title: Engineering affective computing: A unifying software architecture  
**International conference:** Proceedings of ACII'09, the 3rd International Conference on Affective Computing and Intelligent Interaction, Amsterdam, The Netherlands, September 10-12, 2009, IEEE, pp. 1-6.

Authors: K. Makita, J. Nishida, T. Ishikawa, T. Okuma, M. Kouroggi, T. Vincent, L. Nigay, J. Yamashita, H. Kuzuoka, T. Kurata  
Titre : Photo-shoot localization of a mobile camera based on registered frame data of virtualized reality models  
**International conference:** Conference Proceedings of IEEE-ISMAR 2013, 12th IEEE International Symposium on Mixed and Augmented Reality, IEEE, Adelaide, Australia, October 1-4, 2013, pp. 273-274.

Authors: L. Nigay, K. Luyten  
Title: The EICS 2014 Doctoral Consortium  
**International conference:** Conference Proceedings of ACM-EICS 2014, ACM SIGCHI Symposium on Engineering Interactive Computing Systems, ACM Press, Rome, Italy, June 17-20, 2014, pp. 95-96.

Authors: J. Ziegler, J. Creissac Campos, L. Nigay  
Title: HCI Engineering: Charting the Way towards Methods and Tools for Advanced Interactive Systems  
**International conference:** Conference Proceedings of ACM-EICS 2014, ACM SIGCHI Symposium on Engineering Interactive Computing Systems, ACM Press, Rome, Italy, June 17-20, 2014, pp. 299-300.

Authors: W. Delamare, C. Coutrix, L. Nigay  
Title: A Tool for Optimizing the Use of a Large Design Space for Gesture Guiding Systems  
**International conference:** Conference Proceedings of ACM-EICS 2015, ACM SIGCHI Symposium on Engineering Interactive Computing Systems, ACM Press, Duisburg, Germany, June 23-26, 2015, pp. 238-241.

INTERNATIONAL CONFERENCE  
DEMONSTRATION/ POSTER/ADJUNCT PROCEEDINGS

Authors: *A. Clay*, *N. Couture*, *L. Nigay*

Title: Towards an Architecture Model for Emotion Recognition in Interactive Systems: Application to a Ballet Dance Show

**International conference:** Proceedings of WinVR'09, the ASME/AFM 2009 World Conference on Innovative Virtual Reality - World Conference on Innovative Virtual Reality (WinVR'09), ASME, ISBN: 978-0-7918-4337-6, France, February 25-26, 2009, pp. 19-24.

Authors: *J. Francone*, *G. Bailly*, *L. Nigay*, *E. Lecolinet*

Title: Wavelet Menus: A Stacking Metaphor for Adapting Marking Menus to Mobile Devices

**International conference:** Adjunct Conference Proceedings of MobileHCI 2009, the 11th International Conference on Human-Computer Interaction with Mobile Devices and Services, SESSION: Demos & experiences, article No 49, Germany, September 15-18, 2009.

Authors: *M. Kouroggi*, *K. Makita*, *T. Vincent*, *T. Okuma*, *J. Nishida*, *T. Ishikawa*, *L. Nigay*, *T. Kurata*

Title: Handheld AR/AV indoor navigation and detailed information with contextual interaction

**International conference:** Demonstration, Conference ISMAR 2011, 10th IEEE International Symposium on Mixed and Augmented Reality, Switzerland, October 26-29, 2011.

Authors: *K. Makita*, *M. Kouroggi*, *T. Vincent*, *T. Okuma*, *J. Nishida*, *T. Ishikawa*, *L. Nigay*, *T. Kurata*

Title: Handheld AR/AV system using PDR localization and image based localization with virtualized reality models

**International conference:** Demonstration, Conference ISMAR 2012, 11th IEEE International Symposium on Mixed and Augmented Reality, USA, November 5-8, 2012.

Authors: *P. Perea*, *D. Morand*, *L. Nigay*

Title: Halo3D: a Technique for Visualizing Off-Screen Points of Interest in Mobile Augmented Reality

**International conference:** Poster paper, Conference ISMAR 2017, 16th IEEE International Symposium on Mixed and Augmented Reality, France, October 9-13, 2017, ISMAR-Adjunct, 6 pages.

NATIONAL CONFERENCE  
LONG ARTICLE

Authors: J. Coutaz, L. Nigay  
Title: Seeheim et architecture Multi-agent  
**National conference:** Conférence IHM'91, Colloque Ingénierie ds Interfaces, Dourdan, Oct. 1991, pp. 89-98.

Authors: L. Nigay, J. Coutaz  
Title: Interfaces multimodales et architecture : fusion et parallélisme  
**National conference:** Conférence IHM'92, Paris, Telecom Paris Publ., Dec. 1992, pp. 29-36.

Authors: L. Nigay, J. Coutaz  
Title: Fusion et Parallélisme dans les Interfaces Multimodales  
**National conference:** Actes de la 2ème journées internationales sur L'interface des Mondes Réels et Virtuels, Montpellier, EC2 Publ., 22-26 March 1993, pp. 67-76.

Authors: L. Nigay  
Title: MATIS, a Multimodal Airline Travel Information System  
**National conference:** Journée du PRC IHM, 18 Oct. 1993, Lyon, 8 pages.

Authors: L. Nigay  
Title: Réalisation logicielle des systèmes multimodaux : un moteur de fusion générique  
**National conference:** Conférence IHM'94, Lille, Dec. 1994, pp. 15-22.

Authors: J. Coutaz, L. Nigay  
Title: Les propriétés CARE dans les interfaces multimodales.  
**National conference:** Conférence IHM'94, Lille, Dec. 1994, pp. 7-14.

Authors: L. Aublet-Cuvelier, E. Carraux, J. Coutaz, L. Nigay, N. Portolan, D. Salber, M.-L. Zanello  
Title: NEIMO, un laboratoire d'utilisabilité numérique : Leçons de l'expérience  
**National conference:** Conférence ERGOIA'96, 1996, pp. 149-160.

Authors: J.P. Chevallet, G. Gauthier, P. Mulhem et L. Nigay  
Title: Conception des Systèmes de Recherche d'Information Multimédia  
**National conference:** Conférence IHM'96, Grenoble, Sept. 1996, CEPADUES Publ., pp. 85-90.

Authors: Atelier multimodalité et étude de cas (animatrice et rédactrice du rapport)  
Title: Conception assistée par ordinateur d'aménagement d'une cuisine  
**National conference:** Conférence IHM'96, Grenoble, Sept. 1996, CEPADUES Publ., pp. 105-121.

Authors: G. Calvary, J. Coutaz, L. Nigay, D. Salber  
Title: PAC+3 : un modèle d'architecture générique pour systèmes multi-utilisateurs  
**National conference:** Conférence IHM'96, Grenoble, Sept. 1996, CEPADUES Publ., pp. 125-130.

Authors: F. Vernier et L. Nigay  
Title: Représentations Multiples d'une Grande Quantité d'Information.  
**National conference:** Conférence IHM'97, Poitiers, Sept. 1997, CEPADUES Publ., pp. 183-190.

Authors: F. Vernier, C. Lachenal, L. Nigay, J. Coutaz  
Title: Interface Augmentée par Effet Miroir  
**National conference:** Conférence IHM99, Montpellier, 22-26 Nov. 1999, CEPADUES Publ., pp. 158-165.

Authors: T. Duval, L. Nigay  
Title: Implémentation d'une application de simulation selon le modèle PAC-Amodeus  
**National conference:** Conférence IHM99, Montpellier, 22-26 Nov. 1999, CEPADUES Publ., pp. 86-93.

<p>Authors: C. Daassi, M. Dumas, M-C. Fauvet, L. Nigay, P-C. Scholl  Title: Visual Exploration of Temporal Object Databases  <b>National conference:</b> Proceedings of BDA'00, Blois, 24-27 October 2000, pp. 159-178.</p>
<p>Authors: F. Vernier, L. Nigay  Title: Interfaces multimodales : composition et caractérisation des modalités de sortie  <b>National conference:</b> Conférence ERGO-IHM2000, Biarritz, 3-6 October 2000, CRT ILS&amp;ESTIA Ed, pp. 203-210.</p>
<p>Authors: Y. Laurillau, L. Nigay  Title: Modèle de Navigation Collaborative Synchronique pour L'Exploration des Grands Espaces d'Information  <b>National conference:</b> Conférence ERGO-IHM2000, Biarritz, 3-6 October 2000, CRT ILS&amp;ESTIA Ed, pp. 121-128.</p>
<p>Authors: Y. laurillau et L. Nigay  Title: Modèle d'architecture Clover pour les Collecticiels  <b>National conference:</b> Conférence IHM 2002, Poitiers, 26-29 Nov. 2002, ACM Press, pp. 113-120.</p>
<p>Authors: G. Canals, L. Nigay, P. Pucheral  Title: Mobilité : accès aux données et interaction homme-machine  <b>National conference:</b> Actes des 2èmes Assises nationales du GdR I3 (Information, Interaction, Intelligence), J. Lemaître Eds., Cépaduès Publ., Nancy, December 2002, pp. 119-139.</p>
<p>Authors: J. Bouchet et L. Nigay  Title: ICARE : Approche à composants pour l'interaction multimodale  <b>National conference:</b> Conférence UBIMOB 2004, Premières Journées Francophones : Mobilité et Ubiquité 2004, Nice Sophia-Antipolis, June 2004, ACM Press, pp. 36-43.</p>
<p>Authors: P. Renevier et L. Nigay  Title: Notation de Conception pour les Systèmes Mixtes Collaboratifs et Mobiles  <b>National conference:</b> Conférence UBIMOB 2004, Premières Journées Francophones : Mobilité et Ubiquité 2004, Nice Sophia-Antipolis, June 2004, ACM Press, pp. 66-73.</p>
<p>Authors: S. Daudé et L. Nigay  Title: Objets physiques pour manipuler des sources sonores : Phicon+EarCon=Phearcon  <b>National conference:</b> Conférence UBIMOB 2004, Premières Journées Francophones : Mobilité et Ubiquité 2004, Nice Sophia-Antipolis, June 2004, ACM Press, pp. 166-173.</p>
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<p>Authors: <i>B. Malkas, Q. Sauret, J. Francone, L. Nigay</i>  Title: Interaction sur dispositifs mobiles : surface tactile devant/derrière  <b>National conference:</b> Conférence UBIMOB 2012, 8èmes journées francophones Mobilité et Ubiquité, Anglet, 4-6 June 2012, Edition Cépaduès, ISBN 978-2-36493-018-6, pp. 60-68.</p>
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