

Curriculum Vitae of Jean-Daniel Fekete

Current Position	<p>Full Professor, Directeur de Recherche 2^e Classe Head of the AVIZ INRIA Team (www.aviz.fr) INRIA Futurs, LRI University Paris Sud, F91405 Orsay Cedex, France Email: Jean-Daniel.Fekete@inria.fr www.aviz.fr/~fekete</p>	<p>Sep 2006 Last update: Jan. 26th, 2008</p>
Education	<p>Habilitation à diriger les recherches (Tenure): « Nouvelle génération d'Interfaces Homme-Machine pour mieux agir et mieux comprendre »— Univ. d'Orsay Paris Sud. Jury: Joëlle Coutaz, Prof. Univ. of Grenoble II, Saul Greenberg, Prof. Univ. of Calgary, Canada, Ben Shneiderman, Prof. Univ. of Maryland, USA, Michel Beaudouin-Lafon, Prof. Univ. Paris XI, Jean-Gabriel Ganascia, Prof. Univ. Paris VI, Guy Mélançon, Prof. Univ. Montpellier III, Claude Puech, Prof. Univ. Grenoble II.</p> <p>Ph.D. in Computer Science Lab. De Recherche en Informatique (LRI) University Paris Sud, Orsay, France. Thesis advisor: Michel Beaudouin-Lafon</p> <p>DEA in Computer Science University of Paris 11, Saint Denis, France.</p>	<p>May 2005</p> <p>Feb 1996</p> <p>Sep 1989</p>
Experience	<p>Visiting Professor Human Computer Interaction Laboratory University of Maryland, College Park, USA</p> <p>Director of the “Interactive Design and Modeling” group Ecole des Mines de Nantes 46, rue Alfred Kastler, La Chantrerie NANTES, France 4 researchers and 8 students</p> <p>Visiting scientist Human Computer Interaction Lab University of Maryland at College Park Developed the “Excentric Labeling” technique for displaying dense labels in information visualization and cartography</p> <p>Assistant Professor in the “Interactive Design and Modeling” group Ecole des Mines de Nantes</p> <p>PhD student Lab. De Recherche en Informatique (LRI) University of Paris South, Orsay, France. PhD advisor: Michel Beaudouin-Lafon</p> <p>Principal software architect of the “Tic Tac Toon” professional animation system 2001 S.A. Company, France. Supervision of 8 developers</p> <p>Definition of a Digital Typography Curriculum Ecole Supérieure Estienne des Arts et Industries Graphiques Paris</p> <p>Software Developer and co founder of C2V French Startup developing systems for Computer assisted medical diagnosis Supervision of 3 developers</p>	<p>Aug. 01 – Aug. 02</p> <p>Nov. 00 – Jul. 01</p> <p>Jul. - Aug. 98</p> <p>Sep 96 – Sep. 01</p> <p>Sep 89 - Feb 96</p> <p>Sep. 89 – Sep. 95</p> <p>89-95</p> <p>Jan. 87 – Sep 89</p>

	Military service	Dec. 86 – Dec. 87
	Research Assistant Distributed Operating System Research Group (Chorus) INRIA Rocquencourt, France	85 - 86
	Research Assistant “Medical Assistance to the Third World” group Centre Mondial de l’Informatique Paris, France	Jan. 82 – Dec. 86
Publications		
Chapters in Book	Visualisation d’information Jean-Daniel Fekete In J. Akoka and I. Comyn-Wattiau, editors, Encyclopédie de l’Informatique et des Systèmes d’Information, Vuibert, 2006.	2006
	Le langage PostScript Jean-Daniel Fekete in Encyclopédies des Techniques de l’ingénieur	2004
	Le format de document numérique PDF Jean-Daniel Fekete in Encyclopédies des Techniques de l’ingénieur	2004
	Collaboration in the Software Tools Chapter (5) Ben Shneiderman, Catherine Plaisant, Jean-Daniel Fekete In “Designing the User Interface”, Fourth Edition Addison Wesley, 2003.	2003
	Environnements de développement de systèmes interactifs Jean-Daniel Fekete et Patrick Girard in Environnements évolués et évaluation de l’IHM, Interaction homme machine pour les Systèmes d’Information, volume 2, Kolski C. (editor) Editions HERMES, Paris, May 2001. ISBN : 2-7462-0243-3	2001
	Langages de description de pages : PostScript et PDF/Acrobat Jean-Daniel Fekete in Encyclopédies des Techniques de l’ingénieur	1998
Edited books	Document Numérique — Visualisation pour les bibliothèques numériques , Ed. Jean-Daniel Fekete et Eric Lecolinet, volume 9/2, Hermès - Lavoisier, 2006, 128 pages, ISSN 1279-5127	2006
	Actes des 16e journées francophones d’Interaction Homme-Machine (IHM 04) Ed. Jean-Daniel Fekete, Association Francophone d’Interaction Homme Machine (AFIHM), ACM Press, Aug 31-Sep 05 2004, 278 pages (xi+267). ISBN 1-58113-926-8	2004
	NPAR 2000: Symposium on Non-Photorealistic Animation and Rendering Jean-Daniel Fekete and David Salesin ed. ACM June 2000. ISBN 1-58113-277-8	2000
	Actes des 10ièmes journées francophones d’Interaction Homme Machine (IHM 98) Ed. Jean-Daniel Fekete, Association Francophone d’Interaction Homme Machine (AFIHM), Cepadues, sep 1998, 157 pages (viii+149). ISBN 9-782854-285178	1998
Articles in refereed journals	Promoting Insight Based Evaluation of Visualizations: From Contest to Benchmark Repository Catherine Plaisant, Jean-Daniel Fekete and Georges Grinstein in <i>IEEE Transactions on Visualization and Computer Graphics</i> , 14(1):120–134, 2008.	2008
	20 Years of four HCI conferences: A Visual Exploration.. Nathalie Henry, Howard Goodell, Niklas Elmqvist, and Jean-Daniel Fekete. in <i>International Journal of Human-Computer Interaction — Special issue in honor of Ben Shneiderman’s 60th birthday: Reflections on Human-</i>	2007

Refereed papers in conference proceedings	Comparaison d'outils pour la visualisation de sources historiques codées en XML/TEI Nicole Dufournaud et Jean-Daniel Fekete in Document Numérique numéro spéciale « Visualisation pour les bibliothèques numériques », 9(2):37–57, 2006	2006
	Readability of Graphs Using Node-Link and Matrix-Based Representations: Controlled Experiment and Statistical Analysis Mohammad Ghoniem, Jean-Daniel Fekete and Philippe Castagliola in <i>Information Visualization</i> , 4(2), Palgrave Macmillan, Summer 2005, pp. 114-135.	2005
	Du corpus à la région: Représentations multi-échelles pour les manuscrits modernes Aurèle Crasson and Jean-Daniel Fekete in <i>Linguistica Computazione "Digital Technology and Philological Disciplines"</i> (Andrea Bozzi, Laura Cignoni, Jean-Louis Lebrave eds.), Volume XX-XXI, Istituti Editoriali E Poligrafici Internazionali, Pisa - Roma, pp. 111-128. ISBN 88-8147-318-6.	2004
	<u>Analyse historique de sources manuscrites : application de TEI à un corpus de lettres de rémission du XVIème siècle</u> Jean-Daniel Fekete et Nicole Dufournaud, Document Numérique, numéro spécial " Les documents anciens ", Hermès, vol.3, 1-2, 1999, pp. 117-134.	1999
	Mélange: Space Folding for Multi-Focus Interaction. N. Elmqvist, N. Henry, Y. Riche and J-D. Fekete. In Proceedings of ACM CHI 2008 Conference on Human Factors in Computing Systems, April 2008. ACM Press. to appear.	2008
	ZAME: Interactive Large-Scale Graph Visualization. N. Elmqvist, T-N. Do, H. Goodell, N. Henry and J-D. Fekete. In Proceedings of the IEEE Pacific Visualization Symposium 2008, March 2008. IEEE Press. to appear.	2008
	Large Scale Classification with Support Vector Machine Algorithms. T-N. Do and J-D. Fekete. In Proceedings of the Sixth International Conference on Machine Learning and Applications (ICMLA'07), pages 7-12, December 2007. IEEE Press.	
	NodeTrix: an Hybrid Visualization of Social Networks Nathalie Henry, Michael McGuffin and Jean-Daniel Fekete, <i>IEEE Transactions on Visualization and Computer Graphics (Proceedings Visualization / Information Visualization 2007)</i> , 8 pages, to be published, October-November 2007. [Sel: 27/114 (24%)]	2007
	Naviguer dans des grands arbres avec ControlTree Caroline Appert and Jean-Daniel Fekete, In Proceedings of IHM2007, International Conference Proceedings Series, Nov. 2007, Paris, France. 4 pages. To be published. ACM Press.	2007
	Massive Data Mining via Boosting of Least Squares SVM Algorithm T-N. Do, F. Poulet and J-D. Fekete, In Proceedings of the 5th IEEE International Conference on Computer Sciences: Research & Innovation - Vision for the Future (RIVF'07), pages 47-52, March 2007. IEEE Press.	2007
MatLink: Enhanced Matrix Visualization for Analyzing Social Networks Nathalie Henry and Jean-Daniel Fekete, in Proceedings of the eleventh IFIP TC13 International Conference on Human-Computer Interaction (Interact	2007	

2007), Rio de Janeiro, Brazil, Sep. 2007, 288-302 (Brian Shackel Award).

TouchStone: Exploratory Design of Experiments. W. Mackay, C. Appert, M. Beaudouin-Lafon, O. Chapuis, Y. Du, J-D. Fekete and Y. Guiard. In Proceedings of ACM CHI 2007 Conference on Human Factors and Computing Systems, April 2007. ACM Press. p.1425-1434	2007
MatrixExplorer: a dual-representation system to explore social networks Nathalie Henry and Jean-Daniel Fekete, <i>IEEE Transactions on Visualization and Computer Graphics (Proceedings Visualization / Information Visualization 2006)</i> , 12(5): 677-684, September-October 2006. [Sel: 24/104 (24%)]	2006
MatrixExplorer: Un système pour l'analyse exploratoire de réseaux sociaux Nathalie Henry and Jean-Daniel Fekete, In Proceedings of IHM2006, International Conference Proceedings Series, Septembre 2006, Montréal, Canada. pp. 76-74. ACM Press. [Sel: 19/46 (41%)]	2006
OrthoZoom Scroller: 1D Multi-Scale Navigation Caroline Appert and Jean-Daniel Fekete, In Proceedings of ACM CHI 2006 Conference on Human Factors and Computing Systems, April 2006. pp. 21-30. ACM Press.. [Sel: 118/502 (23%)]	2006
Peeking in solver strategies using explanations visualization of dynamic graphs for constraint programming. Mohammad Ghoniem, Jean-Daniel Fekete, Narendra Jussien, and Hadrien Cambazard. In Proceedings of the ACM Symposium of Software Visualization (SoftVis'05), pp. 27—36. ACM Press, May 2005. [Sel: 20/81 (25%)]	2005
Support for Input Adaptability in the ICon Toolkit Pierre Dragicevic and Jean-Daniel Fekete In Proceedings of the Sixth International Conference on Multimodal Interfaces (ICMI 2004), pp. 212-219, Penn State University, PA, October 14-15 2004. ACM Press.	2004
The MaggLite Post-WIMP Toolkit: Draw It, Connect It and Run It Stéphane Huot, Cédric Dumas, Pierre Dragicevic, Jean-Daniel Fekete and Gérard Hégron Proceedings of ACM UIST 2004, Santa Fe, NM, USA, pages 257 – 266, ACM Press [Sel: 24/118 (20%)]	2004
The InfoVis Toolkit Jean-Daniel Fekete Proceedings of the 10 th IEEE Symposium on Information Visualization (InfoVis 04), Austin, TX, USA, IEEE Press 2004. pp. 167-174. [Sel: 27/89 (30%)]	2004
A Comparison of the Readability of Graphs using Node-Link and Matrix-Based Representations Mohammad Ghoniem, Jean-Daniel Fekete and Philippe Castagliola Proceedings of the 10 th IEEE Symposium on Information Visualization (InfoVis 04), Austin, TX, USA, IEEE Press 2004. pp. 17-24. [Sel: 27/89 (30%)]	2004
Comparaison de la lisibilité des graphes en représentation nœuds-liens et matricielle Mohammad Ghoniem, Jean-Daniel Fekete and Philippe Castagliola Proceedings of the 16 th French Speaking Conference on Human Computer Interaction (IHM 2004), Namur, Belgium, Sep. 2004. pp 77-84 [Sel: 17/34 (50%)]	2004

La boîte à outils InfoVis Jean-Daniel Fekete	2004
Proceedings of the 16 th French Speaking Conference on Human Computer Interaction (IHM 2004), Namur, Belgium, Sep. 2004. pp 69-76. [Sel: 17/34 (50%)]	
Structuration des manuscrits : Du corpus à la region Aurèle Crasson and Jean-Daniel Fekete	2004
Proceedings of CIFED 2004, La Rochelle, France, 2004. pp. 162-168.	
The Input Configurator Toolkit: Towards High Input Adaptability in Interactive Applications (short) Pierre Dragicevic and Jean-Daniel Fekete	2004
Proceedings of Advanced Visual Interface 2004; pages 244–247, Gallipoli (Lecce), Italy ACM Press, 2004.	
VISEXP: visualizing constraint solver dynamics using explanations	2004
Mohammad Ghoniem, Narendra Jussien, Jean-Daniel Fekete FLAIRS'04: Seventeenth international Florida Artificial Intelligence Research Society conference, AAAI press, 2004 [Sel: 158/286 (55%)]	
Visualizing explanations to exhibit dynamic structure in constraint problems	2003
Mohammad Ghoniem, Narendra Jussien and Jean-Daniel Fekete, 3rd International Workshop on User Interaction in Constraint Satisfaction, Kinsale, Ireland, Sep 2003.	
Visualisation de graphes de co-activité par matrices d'adjacence	2002
Mohammad Ghoniem et Jean-Daniel Fekete, Actes de la conférence IHM 2002, pages 279--284, Poitiers, France, octobre 2002, Cépadues.	
Interactive Information Visualization of a Million Items	2002
Jean-Daniel Fekete and Catherine Plaisant Proceedings of the 8 th IEEE Symposium on Information Visualization (InfoVis 2002), Boston, USA, IEEE Press, 2002. [Sel: 23/84 (27%)]	
Flattening 3D objects using silhouettes	2002
Domingo Martin Perandres, Jean-Daniel Fekete, Juan Carlos Torres Cantero Comput. Graph. Forum 21, 3 Proceedings of Eurographics 2002; Saarbrücken, Germany, ACM Press, 2002. [Sel: 42/233 (18%)]	
Input Device Selection and Interaction Configuration with ICON Pierre Dragicevic and Jean-Daniel Fekete,	2001
Proceedings of the international IHM-HCI 2001 Conference, Blandford, A.; Vanderdonck, J.; Gray, P., (Eds.): People and Computers XV - Interaction without Frontiers, Lille, France, Springer Verlag, pp. 543-448. [Sel: 33/109 (30%)]	
Compus: Visualization and Analysis of Structured Documents For Understanding Social Life in the 16th Century	2000
Jean-Daniel Fekete and Nicole Dufournaud, Proceedings of Digital Libraries 2000 (DL00). pp. 47-55, ACM. June 2000. [Sel: 44/132 (33%)]	
Excentric Labeling: Dynamic Neighborhood Labeling for Data Visualization Jean-Daniel Fekete and Catherine Plaisant	1999
Proceedings of the International Conference on Human Factors in Computing Systems (CHI 99). Ed. Kate Ehrlich and William Newman, ACM may 1999	
Étude d'une Boîte à Outils Multi-Dispositifs (Study of a Multi-Devices Toolkit)	1999
Pierre Dragicevic et Jean-Daniel Fekete, Proceedings of the 11 th Conférence Francophone d'Interaction Homme-Machine (IHM99), Montpellier. Cépadues. NOV 1999, pp. 55-62.	

<u>Les trois services du novau sémantique indispensables à l'IHM</u> (The Three Services Required for HCI from the Semantic Kernel) Jean-Daniel Fekete <i>Proceedings of IHM 96, Grenoble, Cepadues Sep, 1996 pp. 45-50</i>	1996
<u>Using the Multi-Layer Model for Building Interactive Graphical Applications</u> Jean-Daniel Fekete <i>Proceedings of the UIST'96 Conf., Seattle, USA, ACM., Nov 1996 pp. 109-118</i>	1996
<u>TicTacToon: A Paperless System for Professional 2D Animation</u> Jean-Daniel Fekete and Érick Bizouarn and Éric Cournarie and Thierry Galas and Frédéric Taillefer <i>Computer Graphics (Proceedings of SIGGRAPH' 95) ACM., Aug, 1995, pp. 79-90</i>	1995
Traitement mixte image/texte de documents anciens. (Mixed Management Image / Text of ancient documents) Jacques André, Jean-Daniel Fekete et Hélène Richy. Actes du congrès GUTenberg, La Grande Motte GUT, Jun 1995, pp 75-85	1995
<u>Automated Gap Closing for Freehand Drawing</u> Michel Gangnet and Jean-Manuel Van Thong and Jean-Daniel Fekete <i>Siggraph'94 Technical Sketch, Orlando, 1994</i>	1994
<u>A multi-layer graphic model for building interactive graphical applications</u> Jean-Daniel Fekete <i>Graphics Interface'92, Vancouver, Canada, p. 294-300, may, 1992</i>	1992
Un Modèle Abstrait pour la Construction d'Éditeurs Graphiques Interactifs (An Abstract Model for Building Interactive Graphical Editors) Jean-Daniel Fekete Proceedings of IHM 91, Dourdan, France	1991
GENESE: Narrowing the gap between Experts and Systems. Jean-Daniel Fekete, Benoît Hap and Renaud Dumeur Proceedings of the 11 th Annual International Conference of the IEEE Engineering in Medicine & Biology Society IEEE, Seattle. Nov 1989	1989
CSKIM: An extended dialect of scheme Charles Consel, Alain Deutsch, Renaud Dumeur, and Jean-Daniel Fekete Bigre Bulletin, Jul. 1989	1989
MEDIC : une aide aux soins de santé primaire sur des terrains sans médecin. Peter Schwenn, Renaud Dumeur, Jean-Daniel Fekete et Benoît Hap Proceedings of the AIMMF conference, Marseille Dec 1984	1984

Workshops

<u>Workshop on Information Visualization Software Infrastructures</u> Katy Börner, Bruce Herr and Jean-Daniel Fekete Visualization Summit, Zürich, Switzerland, Jul. 7 2007.	2007
<u>Information Visualization - Human-Centered Issues in Visual Representation, Interaction, and Evaluation</u> Jean-Daniel Fekete, Andreas Kerren, Chris North and John Stasko Dagstuhl Seminar 07221, Dagstuhl, Germany, May 28-Jun 1 2007	2007
<u>Workshop on Information Visualization Software Infrastructures</u> Jean-Daniel Fekete and Katy Börner, IEEE Symposium on Information Visualization (InfoVis), Oct. 9 2004.	2004

**Other
publications**

“07221 Executive Summary – Information Visualization - Human-Centered Issues in Visual Representation, Interaction, and Evaluation” , Internationales Begegnungs- und Forschungszentrum fuer Informatik (IBFI), Schloss Dagstuhl, Germany, in : Information Visualization - Human-Centered Issues in Visual Representation, Interaction, and Evaluation, J.-D. Fekete, A. Kerren, C. North, J. T. Stasko (editors), Dagstuhl Seminar Proceedings, 07221, 2007,	2007
“07221 Abstracts Collection - Information Visualization - Human-Centered Issues in Visual Representation, Interaction, and Evaluation” , Internationales Begegnungs- und Forschungszentrum fuer Informatik (IBFI), Schloss Dagstuhl, Germany, in : Information Visualization - Human-Centered Issues in Visual Representation, Interaction, and Evaluation, J.-D. Fekete, A. Kerren, C. North, J. T. Stasko (editors), Dagstuhl Seminar Proceedings, 07221, 2007	2007
Flot visuel de données T-N. Do and J-D. Fekete, in Acte du 5e Atelier Visualisation et extraction de connaissances, EGC'07, Jan. 2007.	2007
ControlTree: Navigating and Selecting in a Large Tree (Demo) Caroline Appert and Jean-Daniel Fekete, In Proc. ACM symposium on User Interface Software and Technology (UIST 2006) Conference Compendium, pages 47-48, October 2006. ACM Press.	2006
Task Taxonomy for Graph Visualization (Workshop) Catherine Plaisant, Bongshin Lee, Cynthia Sims Parr, Jean-Daniel Fekete and Nathalie Henry, In <i>BEyond time and errors: novel evaluation methods for Information Visualization (BELIV'06)</i> , Venice, Italy, May 2006, p. 1–5.	2006
Evaluating Visual Table Data Understanding (Workshop) Nathalie Henry and Jean-Daniel Fekete, In <i>BEyond time and errors: novel evaluation methods for Information Visualization (BELIV'06)</i> , Venice, Italy, May 2006, to be published.	2006
Shakespeare's Complete Works as a Benchmark for Evaluating Multiscale Document-Navigation Techniques (Workshop) Yves Guiard, Yangzhou Du, Jean-Daniel Fekete, Michel Beaudouin-Lafon, Caroline Appert and Olivier Chapuis, In <i>BEyond time and errors: novel evaluation methods for Information Visualization (BELIV'06)</i> , Venice, Italy, May 2006, to be published.	2006
Visualizing explanations to exhibit dynamic structure in constraint problems Mohammad Ghoniem, Narendra Jussien and Jean-Daniel Fekete, 3th International Workshop on User Interaction in Constraint Satisfaction, Sep 2003	2003
The Infovis Toolkit (Poster) Jean-Daniel Fekete, UIST 2003, Vancouver, Canada.	2003
The Infovis Toolkit (Poster) Jean-Daniel Fekete, Infovis 2003, Seattle, WA.	
Overlapping Graph Links on Treemaps Jean-Daniel Fekete, David Wang, Niem Dang, Aleks Aris, Catherine Plaisant Technical Report HCIL-2003-32 and Infovis 2003 Poster	2003
The InfoVis Toolkit (Research Report) Jean-Daniel Fekete, Research Report RR-4818, INRIA Futurs, May 2003.	2003
The svgI toolkit: enabling fast rendering of rich 2D graphics Stéphane Conversy and Jean-Daniel Fekete Rapport Interne Ecole des Mines de Nantes, 02/1/INFO, Jan. 2002.	2002

Bibliothèques : comparaisons entre le réel et le virtuel en 3D, 2D zoomable et 2D arborescent.

Patricia Plénacoste, Eric Lecolinet, Stuart Pook, Cédric Dumas and Jean-Daniel Fekete.

Video, IHM HCI 2001, Lille, France, 10-14 September 2001.

Animating Treemaps Mohammad Ghoniem and Jean-Daniel Fekete 2001
Workshop on Treemap Implementations and Applications, University of Maryland, College Park. May 2001.

Bibliothèques : comparaisons entre le réel et le virtuel en 3D, 2D zoomable et 2D arborescent.

Eric Lecolinet, Jean-Daniel Fekete, and Stuart Pook.

Proceedings of ASTI 2001, pages 24-25, Paris, France, 24-27 April 2001.

Une architecture multi-dispositifs (Workshop) 2000

Jean-Daniel Fekete et Pierre Dragicevic

Proceedings of the “Multimodal Interfaces”, Grenoble, 9-10 May 2000.

See <http://www.emn.fr/fekete/ps/multidispo.pdf>

Utilisation de TEI comme support méthodologique au dépouillement de sources manuscrites (Conference) 1998

Jean-Daniel Fekete and Nicole Dufournaud,

Proceedings of the Fifth National Conference of the French Association for History and Computing (Actes du Vième Colloque National de L'Association Française pour l'Histoire et l'Informatique), Toulouse, Nov. 1998.

Esterel meets Java: Building Reactive Synchronous Systems with Java 1998

(Technical Report)

Jean-Daniel Fekete and Martin Richard, EMN Report 98/3/98, Dec. 1998.

Specification and Verification of Interactors: A Tour of Esterel 1998

(Workshop)

Jean-Daniel Fekete and Martin Richard and Pierre Dragicevic, in Formal Aspects of Human Computer Interaction Workshop, Sheffield University, Sheffield, UK. September 1998.

Expérience de codage de document à intérêt graphique à l'aide de TEI 1998

(Conference)

Jean-Daniel Fekete

in Actes du congrès Eurotex 98, Saint Malo, p. 131-142. March 1998

Utilisation de TEI pour coder les documents historiques (Conference) 1997

Jean-Daniel Fekete,

Colloque Internet pour l'histoire (CNRS, Orléans). nov 1997

Editing Tools for WWWing Ancient Texts 1995

Jacques André and Hélène Richy and Jean-Daniel Fekete, Feb, 1995

ERCIM Workshop

Funded Projects

Microsoft Research - INRIA Project **ReActivity** Project: Logging, Visualization, Analysis and Support Tools for Managing Activity. 2006-2009

European TMR Plate form for Animation and Virtual Reality (PAVR) 1997 – 2001
Funded by the European Union “Training and Mobility of Researchers” program
Associates: INRIA/SIAMES, INRIA/iMAGIS, university of Bath, university of Glasgow, UT-Vienna, 2MF

Industrial
Project
Nationally
Funded
Projects

Visual Perl Profiler Funded by IntuiLab S.A.	2004
TARANIS: Technologies for the Appraisal of Risks through Animation and Simulation (ANR) TARANIS is a "Global Security" project conducted by the company "Mathématique Appliquée S.A." (MASA), ESRI-France and LRI/INRIA. Funding: 118K€	2006-2008
Autograph: Analysis and visualization of the Auto-organization process of online social communities, funded by French National Research Agency (ANR). Associates: France Telecom, LIAFA Univ. Paris VII, LIMSI, Univ. Paris XI Funding: 103K€670K€	2005-2008
WebContents: Semantic Web Platform, funded by French National Research Agency (ANR.) Associates: about 30 industrial and academic laboratories. Funding: 58K€2M€	2005-2008
SEVEN : Classification and Visualization for Business Intelligence Funded by French National Research Agency (ANR). Associates: EDF (Electricité de France), Ceremade Univ. Paris XII, LIMSI Univ. Paris XI. Funding: 110K€440K€	2005-2008
Microbiogenomics: Optimal extraction of pertinent informations from complex and heterogeneous data provided by exhaustive genomic comparisons Funded by French National Research Agency (ANR). Associates: Biology laboratories IGM and MIG from Univ Paris XIII, Bioinformatics group of LRI; Univ Paris XIII and INRA. Funding: 80K€410K€	2005-2008
Millefeuilles: Analysis and Visualization of the History of the French Central Institutions Funded by CNRS Associates: National Archives, Univ. Paris I, Ecole des Chartes.	2004-2006
EDGE : Evaluation methods, Design Guidelines and Environments for Virtual Reality and Information Visualization Techniques Funded by the Franco-Brazilian fund for Research CNPq/INRIA Associates: Universidade Federal do Rio Grande do Sul (Porto Alegre, Brazil), Pontificia Universidade Católica do Rio de Janeiro and MERLIn group INRIA	2005-2008
Annotation collaborative en ligne de l'archive manuscrite Funded by the CNRS Associates : ITEM, BnF	2003-2005
MICROMEGAS Project, ACI « Masse de Donnée » (Large Datasets) Funded by the CNRS Associates : Univ. Marseille, INRIA, Institut Pasteur	2003-2006
INDIGO : Distributed Interactive Graphics Objects Funded by the French ministry of Research Associates : ILOG, INRIA/W3C, CENA	2001-2004

	Outils d'Aide au Diagnostic et à la mise au point de programmes avec contraintes (OAdymPPAC)	2000 – 2003
	Funded by the French ministry of Research Associates: EMN/Contraintes; INRIA/Contraintes, INRIA/LANDE, université d'Orléans/LIFO, ILOG, COSYTEC Funding: 2MF	
	HyperVise	1999-2001
	France Telecom Research and Development Funding: 500KF	
	Philectre	1998 – 2000
	Ministry of Research, CNRS, Cognition project	
	EMMA	1996 – 1998
	Ministry of Research, CNRS, Cognition project	
Ph.D.		
Supervision	Nathalie Henry Visualization of Social Networks	2004—2008
	Mohammad Ghoniem Real time visualization for debugging constraint based systems	2000 – 2005
	Pierre Dragicevic Multiple Input Devices and Interaction	1997 – 1999 2000 – 2004
Post	Fanny Chevalier, Université de Bordeaux 1 Visualization of the evolution of networks and trees	2008
Doctorates	Stéphane Huot, Université de Nantes, France Advanced Interaction and Visualization for Social Networks	2007
	Niklas Elmqvist, Chalmers University of Technology, Sweden Volume Visualization and Information Visualization.	2007-2008
	Nghi Do-Thanh, Can Tho University, Viet-Nam Information Visualization and Data Mining for Business Intelligence	2006-2008
	Howard Goodell, University of Massachusetts at Lowell Information Visualization for Biology and Social Networks	2006-2007
	Tian Feng, University of Singapore Hybrid Painting for Cell Animation	2003
	Domingo Martin Perandrès, University of Granada, Spain Non-Photorealistic Rendering	2000—2001
	Jairo Rocha, University of Baleares, Spain Video tracking for Virtual Reality	2001
Reviewing		
Books	Morgan Kaufmann Publishers	2000
	Addison Wesley	1995-2004
Journals	Member of the Editorial board of The International Journal of Human Computer Interaction (Elsevier)	2004-2008
	Interacting with Computers (Elsevier)	2006
	Coordinator of the special issue “Visualization for Digital Libraries” of the “Document Numérique” Journal with Eric Lecolinet	2006
	ACM Transactions on Applied Perception	2006
	Information Visualization Journal, Palgrave Macmillan.	2005-2007
	IEEE Transactions on Visualization and Computer Graphics	2003—2007
	Software Practice and Experience	2003

Program Committees	IEEE Computer Graphics and Applications special issue Non-Photorealistic Rendering (July/August 2003)	2002
	Environment and Planning B: Planning and Design	2001
	SPRINGER International Journal Universal Access in the Information Society	2002
	Eurographics Computer Graphics Forum	2000
	Revue de l'Interaction Homme Machine	2000
	Document Numérique, Hermes	1999
	IEEE Visual Analytics Science and Technology (VAST)	2008
	ACM Human Factors in Computing Systems CHI 2008	2008
	BEyond time and errors: novel evaluation methods for Information Visualization, A Workshop of the ACM CHI 2008 Conference	2008
	MeMos 2007: Supporting Human Memory with Interactive Systems Workshop at the 2007 British HCI International Conference	2007
	Asia-Pacific Symposium on Visualisation (re-named PacificVis)	2007-2008
	IEEE Symposium on Information Visualization (InfoVis) Co-Founder and Co-Chair of the firsts and second InfoVis contests, publicity chair in 2007	2003-2007
	IHM (French HCI conference) chair in 1998	1998-2000 2003-2006
	VIEW (Visual Information Expert Workshop)	2006-2007
Conferences Reviewing	Graph Drawing	2005
	Proceedings Chair of IHM 2004	2004
	Graphics Interface 2004	2004
	CADUI 2004	2004
	CIDE 06 (French Electronic Documents Conference)	2003
	CADUI 2002 (International conference on CAD and HCI)	2002
	IHM-HCI 2001 (English-French joint conference on HCI)	2001
	ACM/Eurographics NPAR 2000 (co-chair)	2000
	ACM IUI	1999
	LMO (French Object Oriented Conference)	1998
	ACM CHI	2000-2008
	Graphics Interface	2008
	EuroVis (Eurographics)	2007
	ACM Siggraph	2006,2008
	ACM IUI	1999, 2003
	ACM-UIST	2002-2007

	ACM Multimedia	2002
	ACM DIS	2002
	ECOOP	1999
	Eurographics	2002-2004
	IHM	1997—2007
Professional Activities	Member of the executive committee of the French Association for Human Computer Interaction AFIHM	2003-2005 1998-2001
	Member of the executive committee of the GDR I3 (similar to the US NSF IIS division)	Since 1998
	Chair of the GDR I3 working group on Architectures, Languages and Formalisms for HCI (see http://lis.univ-tlse1.fr/alf)	Since 1998
Consulting	Etrali, France Telecom, French company designing smart phones for traders	2006
	IntuiLab, French company designing advanced HCI products	2004—2007
	Semiosys, French company designing Information Visualization Solutions	2003—2004
	Rockwell Collins, Aircraft Equipment Industry	2000
Invited Talks	WikipédiaViz : voir pour croire et savoir : Invited presentation at the Wikipédia Colloque 2007, Cité des sciences et de l'industrie, Paris, Oct. 20 th	2007
	Visualizing and Navigating Wikipedia-Size Networks: Invited presentation at the University of Toronto, Canada, Apr. 24 th	2007
	Visualizing and Navigating Wikipedia-Size Networks: Invited presentation at Microsoft Research, Redmond, USA, Apr. 27 th	2007
	Matrix Reordering Survey: Invited presentation at the University of Maryland; College Park, USA, Oct. 20	2006
	Social Networks with Matrices: Invited presentation for the workshop of the French Statistical Society « Visualisation statistique :du PDA à l'écran géant » IRISA, Rennes.Jan.	2006
	Rencontres 2005 du Pôle Méthodologique « Analyse des Données Relationnelles — EHESS-INED »: Nathalie Henry, Jean-Daniel Fekete	2005
	Editions de manuscrits Aurèle Crasson and Jean-Daniel Fekete Ecole thématique ITEM/IMEC : Critique génétique : manuscrits, écriture, invention, Abbaye D'Ardenne, Caen, Sep 2004	2004
	Les leçons tirées des deux compétitions de visualisation d'information Jean-Daniel Fekete and Catherine Plaisant	2004
	Invited talk in Proceedings of the 16 th French Speaking Conference on Human Computer Interaction (IHM 2004), Namur, Belgium, Sep. 2004, p. 7-12	
	Annotation collaborative en ligne de l'archive manuscrite Jean-Daniel Fekete Séminaire général 2003-2004 de l'Institut des Textes et Manuscrits Modernes (ITEM), May 2004 http://www.diffusion.ens.fr/index.php?res=personnes&idpers=146	2004
	Publication numérique et analyse de manuscrits anciens (Digital Publication and Analysis of old manuscripts) Conférence Fédérative sur le Document CFD'02, Hammamet-Tunisia 20-23 Oct 2002	2002
	Animation et rendu non réaliste :Tour d'horizon et perspectives (Non Realistic Animation and Rendering: state of the art and perspectives) French Computer Graphics Conference, Grenoble, France	Dec 2000

	Les nouvelles frontières de l'animation Professional Animation Meeting in Angoulême, France	Nov 2000	
Teaching	Information Visualization Université d'Orsay, Graduate course of 24 hours	2003-2007	
	Information Visualization University of Maryland at College Park graduate course of 45 hours	2002	
	Around 200 hours per year of courses, lab and training. Human Computer Interaction 35h at the Ecole des Mines de Nantes	Since 1996	
	<i>Outils de construction d'interfaces</i> Ecole d'été Interaction Homme-Machine	1997	
	Advanced Interaction for Modeling Curves and Surfaces DEA of Nantes, 12h	Since 1998	
	Computer System Administration 35h of courses and lab. at the Ecole des Mines de Nantes	Since 1999	
	C++ 35h at the Ecole des Mines de Nantes	1996-1998	
	Computer Networks 35h at the Ecole des Mines de Nantes	1996-1998	
	Summary of Research Activities		
	University of Maryland	Scaling issues in Information Visualization. How to visualize and interact with one million of items using hardware accelerated graphics and special interaction techniques.	2001-2002
Ecole des Mines de Nantes	Architecture for Multiple input management at the toolkit level based on a reactive language semantically close to "Lustre" and on a visual language for configuration and programming of the connections between the input devices, the interaction styles and the interactive application. Ph.D. student: Pierre Dragicovic	since 1997	
	Architecture for high performance 2D information visualization, allowing interactive time control for "starfield displays with dynamic queries", treemap displays with dynamic queries and other highly demanding interactive 2D visualization modes. Ph.D. student: Mohammad Ghoniem	Since 2000	
Lab. de recherche en informatique	Design of 3D interaction for GINA, a novel constraint based 3D modeler relying on projective geometry and Cayley Grassman Algebra. In collaboration with Pierre Macé, Pr.	Since 1999	
	Ph.D. on an architectural model for advanced human computer interaction relying on a multi layer model for managing both the visualization and the interaction. Multi layering has been used effectively for 3D graphics by Cohen and is standard for 2D graphics in the Java Swing toolkit. For interaction, layering has not achieved such widespread use but has been successfully applied to the architecture of the Tic Tac Toon 2D animation system.	1989 - 1996	

2001 S.A. Company	<p>Design and implementation of the Tic Tac Toon professional 2D animation system. Tic Tac Toon has been used for producing several animation TV series and one feature film “Kirikou et la sorcière”.</p> <p>Tic Tac Toon includes several applications for every stage of the traditional animation organization. Animations can be produced without any paper. Innovations include a sketching program called “anima”, a mouth shape recognition engine and a “deep” 2D layout editor.</p> <p>Anima is used for all the creative steps of animation, from storyboarding, animating, in-betweening to cleaning. Anima offers a two handed interaction style with an interface similar to the animator’s light table. Several drawings can be stacked like on tracing paper, providing a familiar yet extended environment to professional animators.</p> <p>The mouth shape recognition engine provides automatic “lip synch” from an audio input with a high accuracy on recognition and timing.</p> <p>The “deep” 2D layout editor simplify the management of multiple animation layers.</p> <p>7 engineers under my direction have implemented the system</p>	1989 - 1995
Ecole Superieure Estienne	<p>Participation in the design of two new curricula at the Ecole Superieure Estienne des Arts et Industries Graphiques in Paris. The Ecole Estienne is the leading French design school for the book industry.</p> <p>The first curriculum aimed at teaching computer graphics to graphic designers together with computer scientists. The class started in 1991 with 12 students and continues since then.</p> <p>The second curriculum aimed at teaching “Typographic Design” to students at the master level. It was a two years course for 12 students.</p> <p>I taught “Digital Typography” to 1st year students and “Typography for the screen” to 2nd year students.</p>	1990 - 1995
C2V Company	<p>Development of an embarked system for medical diagnosis and - development of a graphical interactive editor to allow physicians to specify their knowledge using decision flowcharts.</p>	1988 - 1989
Label 35 Studio	<p>Software Developer in Chief Label 35 Animation Studios</p> <p>In charge of the software for the production of 2D animation TV series. In charge of 4 computer scientists, the company having around 100 professionals of animation.</p>	1987 - 1988
Centre Mondial de l’Informatique	<p>Research Assistant “Medical Assistance to the Third World” group directed by Harold Goldberger and Peter Schwenn</p> <p>Design of an embarked system for medical diagnosis on a small ruggedized laptop system</p> <p>Co-development with Michael Travers of MIT Media Lab. of a graphical interactive editor to allow physicians to specify their knowledge using decision flowcharts.</p> <p>Evaluation of the system in Tchad with “Médecin sans frontières” in 1986.</p>	1982 – 1986
PhD Defense Committes	<p>Maurizio Rigamonti : <i>A Framework for Structuring Multimedia Archives and for Browsing Efficiently Through Multimodal Links</i>, University of Fribourg, Switzerland</p>	2008
	<p>Davis Da Costa : <i>Visualisation et fouille interactive de données à base de points d’intérêt</i>, Univ. de Tours.</p>	2007
	<p>Pierre Salom : <i>Visualisation interactive de données volumiques texturées pour la détection supervisée de failles en imagerie sismique</i>, Univ. de Bordeaux.</p>	2007

	Eric Barboni: <i>Méthodes formelles pour les composants logiciels appliquées aux systèmes interactifs critiques</i> (Formal Methods for Software Components Applied to Critical Interactive Systems), Univ. Toulouse 1	2006
	Greg Ross : An Algorithmic Framework for Visualising and Exploring Multidimensional Data, Univ. of Glasgow.	2006
	Mohammad Ghoniem, Ecole des Mines de Nantes	2005
	Stéphane Huot, Ecole des Mines de Nantes	2005
	Pierre Dragicevic Ecole des Mines de Nantes	2004
	Mickael Baron Ecole Nationale Supérieure de Mécanique et d'Aéronautique	2003
	David Bourguignon INRIA Rhône-Alpes, projet iMAGIS, laboratoire GRAVIS	2002
	Alexandre Topol Centre National des Arts et Métiers, Paris	2002
	Laurent Robert Ecole Nationale Supérieure des Télécommunications Paris Annotation et visualisation interactives de documents hypermédias	2001
	Stuart Pook Ecole Nationale Supérieure des Télécommunications Paris Interaction et contexte dans les interfaces zoomables	2001
	Guillaume Texier Ecole Nationale Supérieure de Mécanique et d'Aéronautique Conception et développement graphique interactif d'application spécialisée de conception	2000
	Cédric Dumas Université de Lille, Laboratoire Informatique Fondamentale de Lille Un modèle d'interaction 3D : Interaction Homme-Machine et Homme-Machine-Homme dans les interfaces 3D pour le TCAO synchrone	1999
	Guillaume Patry Ecole Nationale Supérieure de Mécanique et d'Aéronautique <i>Contribution à la Conception du Dialogue Homme-Machine dans les Applications Graphiques Interactives de Conception Technique : le système GIPSE.</i>	1999
Software	ZAME: the Zoomable Adjacency Matrix Explorer, with Niklas Elmqvist, Howard Goodell, Thanh-Nghi Do and Nathalie Henry.	2008
	Touchstone Runtime Platform (touchstone.lri.fr), with Caroline Appert and Michel Beaudouin-Lafon	2007
	A Java system for designing and running controlled experiments	
	The Infovis Toolkit (ivtk.sourceforge.net)	2003—2006
	A Java/Swing Toolkit for Information Visualization	
	Glite (insitu.lri.fr/~fekete/glite)	2006
	a small fast 2D Scene Graph Management Toolkit in Java using OpenGL/JOGL for rendering.	
	Concordance (insitu.lri.fr/~fekete/concordance)	2003
	A C++ program to compute and visualize similarities between textual documents.	
	Manuscript (insitu.lri.fr/~fekete/manuscript)	2003
	A C program to read large digitized texts using an interactive fisheye view.	
	Agile2D (insitu.lri.fr/~fekete/agile2d and www.cs.umd.edu/hcil/agile2d) with Jon Meyer and Benjamin Bederson	2003
An implementation of Java2D built using the OpenGL API.		

MillionVis (www.cs.umd.edu/hcil/millionvis)	2002
An information visualization system to interactively visualize millions of items	
Aoadymppac (contraintes.inria.fr/OADymPPaC/)	2001
An information visualization toolkit to monitor the execution of constraint oriented programs	
Svgl with Stéphane Conversy (www.lri.fr/~conversy/svg/)	2001
A renderer of SVG images using the OpenGL API for hardware accelerated graphics	
Compus (insitu.lri.fr/~fekete/compus/)	2000
A visualization system for medium-size XML corpora	
Icon with Pierre Dragicevic (www.emn.fr/dragicevic/Icon)	1999
A Java system for configuring and managing multiple input devices from interactive applications	
Excentric Labels (www.cs.umd.edu/hcil/excentric)	1998
A dynamic labeling technique for information visualization	
Tei2latex (www.tei-c.org/Software/tei2latex-0.1k.tar.gz)	1997
a perl system to translate from the SGML DTDs TEI to the LaTeX text formater	
WWL, a Xt/Motif Widget Wrapper Library	1995
The Tic Tac Toon system	1995
A professional system for traditional animation	
The X Television Toolkit (with several other authors)	1991
An X11 Toolkit	
CSKIM with R. Dumeur, C. Consel, A. Deutsch)	1989
An extended dialect of Scheme	
Genese (with R. Dumeur, J.-A. Le Borgne)	1989
An expert system generator based on visually rich representations	