

RESEARCH AT THE
CENTRE OF EXCELLENCE
IN MANAGEMENT
AND INFORMATION
TECHNOLOGY

[CEMIT]

Research at the Centre of Excellence in Management and Information Technology (CEMIT)

1. Presentation

The Centre of Excellence in Management and Information Technology (CEMIT) is devoted to the systematic study, conception and analysis of strategies, methodologies, processes and systems related to electronic management. As the centre covers both the information system sciences and competencies related to strategic change and process management, it applies a comprehensive approach to ICT management systems. The interdisciplinary work in the centre has an analytical and critical character, offering important and complementary insights to the predominantly constructivist approaches.

On one hand, CEMIT studies how IT and communication technology developments influence the way organizations conduct their business today. It focuses on the organizational foundations of management information systems, their strategic role and the organizational and management changes driving e-commerce, e-business and the emerging digital firm.

On the other hand, CEMIT research deals with issues from human-machine interactions to strategic business-IT alignment and knowledge management through databases design and management, data cleansing, data mining, decision-support systems, requirements analysis and specifications, e-business, ERP II and Web applications, object and agent-oriented technologies, or development methodologies of information and knowledge systems.

CEMIT implies today more than 35 professors and researchers. These last years, ten PhD theses have been conducted.

The Centre is under re-organization and extension to involve also Information Management and Technology research entities from the other LSM partners.

SENIOR RESEARCHERS

Prof. Manuel Kolp
 Prof. Olivier de Broqueville
 Prof. Marco Saerens
 Prof. Jean Vanderdonckt
 Prof. Alain Pirotte
 Prof. Stéphane Faulkner
 Prof. Thierry Vandenberghe
 Prof. Philippe Wilmes

RESEARCHERS

Youssef Achbany
 Laurent Bouillon
 Benoît Collignon
 Adrien Coyette
 Murielle Florins
 François Fouss
 Hoang Thi Thuy Hang
 Caroline Herssens
 Anne-Cécile Jeandrain
 Tai Duy Nguyen
 Yves Wautelet
 Luh Yen
 Benoît Collignon
 Monica Gemo
 Juan Manuel Gonzalez Calleros
 Donatien Grolaux
 Josefina Guerrero García
 Benjamin Michotte
 Adrian Stanciulescu
 Thi Ai Vi Tran
 Daniela Trevisan
 Christian Van Brussel
 Suzanne Kieffer
 Francisco Javier Martínez Ruiz
 Hildeberto Mendonca
 Kénia Sousa
 Marco Winckler
 Ivan Jureta
 Stéphane Dehousse

RESEARCH PARTNERSHIPS

CEMIT collaborates with other universities such as the Université libre de Bruxelles, the university of Toronto, the university of Trento, the university of Grenoble I, the Xerox Research Center Europe, the university of Ancona or Stanford University. ISYS also conducts educational and scientific missions in Asia, Africa, North and South America and Eastern Europe. It is also involved in various research projects at the regional, national and European level.

Other collaborations include the University of Loughborough, U.K., University of Toulouse I, France, INRIA Rocquencourt, France, Universidade Fortaleza, Brazil, University of Sciences and Technologies of Lille I, France, University of Technology of Compiègne, France, University of Valenciennes and Haut-Hainaut Cambresis, France, University of Pernambuco Brazil, RWTH Aachen, Germany, City University, U.K., Research center IRST, Italy.

CEMIT also maintains collaborations in the context of specific training or advises, development and research projects with industries and enterprises (e.g. the Retirement Administration, the SSTC, Belgacom, Carsid (Duferco/Unisor), SOPRES, Motorola, Dexia, CITOBI, Denali, the Post, Sonaca, Cediti, Ansys/Fluent, TechnofuturTIC...).

Some specific examples of such partnerships:

CORPORATE AGREEMENTS

CEMIT has established a higher education and research agreement (<http://www.isys.ucl.ac.be/sap>) with SAP, one of the market leaders for ERP II and E-Business technologies to benefits from their solutions, architectures and infrastructures for conducting doctoral research and teaching at the IAG Louvain School of Management.

CEMIT is also partially supported by ING through the Chair in e-Management that aims at developing activities around its three main missions: teaching addressed to students from first degree and postgraduate students as well as to executives; research with multidisciplinary purpose (for example, undertaking of doctoral researches, organization of focus groups), service to the community (help on upon request from companies, public institutions, etc.).

NETWORKING

CEMIT takes part in the Agentcities.NET (<http://www.agentcities.org/EUNET/>) partnership that is a Take Up Action, TRIAL/TESTBED support activity, helping create an open dynamic service environment based on Agent technology and make it accessible to potential users. The project acts a support to European / worldwide research and industry groups wishing to participate in the development of an open, worldwide interoperable agent network (Agentcities). The project's objectives are to enable technology transfer by bringing together key players from related industries (from eCommerce firms to Internet tool makers, systems Integration firms and hosting firms - potential users of the technology) with researchers and developers working on the testbed infrastructure and services.

EXECUTIVE EDUCATION

CEMIT has developed a long-term collaboration with the ICT competences centre TechnofuturTIC (<http://www.technofuturtic.be>) supported by the European Commission, Agoria, Belgium's largest employers' organization and trade association and the Walloon Region to develop and conduct different executive education ICT programs for the enterprise and industry. Such programs deal with software project management, information systems modeling and design, data analysis or enterprise systems implementations.

2. Scientific Publications

2.1. Articles published in Scientific Journals

- L. Penserini, M. Kolp and L. Spalazzi. “*Social Oriented Engineering of Intelligent Software*” In International Journal of Web Intelligence and Agent Systems (WIAS), 11(3): 14-36, IOS Press, 2006
- M. Kolp, P. Giorgini and J. Mylopoulos. “*Multi-Agents Architectures as Organizational Structures*”. In Journal of Autonomous Agents and Multi-Agent, Kluwer Academic Publishing, 13(1): 3-25, 2006.
- I. Jureta, M. Kolp, S. Faulkner. “*Multi-Agent Patterns for Deploying Online Auctions*”. In International Journal of Intelligent Information Technologies, 2(3): IGI Publishing, 21-39, 2006.
- Achbany Y., Fouss F., Yen L., Pirotte A. & Saerens M, “*Optimal Tuning of Continual Online Exploration in Reinforcement Learning*”. In Artificial Neural Networks (ICANN), 16:790–800, LNCS Vol. 4131, Springer-Verlag, Berlin, 2006, pp.
- I. Jureta, S. Faulkner and M. Kolp. *Formalizing Agent-Oriented Enterprise Models*. In Agent Oriented Information Systems (AOIS), 8:184-199, LNCS 3529 Springer, 2006.
- Muñoz Arteaga Jaime, Martínez Ruiz Francisco Javier, Vanderdonck Jean, Ochoa Zezatti C.A, *Categorization of Rich Internet Applications based on Similarity Criteria*, Hifen Review 30, Fascicule 58, p. 161-166, 2006.
- Winckler Marco, *Cascading Dialog Modeling*, 2006, International Journal on Web Engineering, A paraître.

2.2. Books

- M. Kolp, P. Bresciani, B. Hendersen-Sellers, M. Winikoff (Eds.), *Agent Oriented Information Systems VIII* Lecture Notes in Computer Science, Springer, 2006, 291 p., ISBN: 978-3-540-48291-8, Germany

3. Conferences

3.1. Conferences with proceedings

- Kolp Manuel, Dehousse Stéphane, Liu L., Faulkner Stéphane, Mouratidis H., *Modeling Delegation through an i*-based Approach*, 6th IEEE International Joint Conference on Web Intelligence and Intelligent Agent Technology, Hong Kong, 2006.
- Kolp Manuel, Faulkner Stéphane, *An Architectural Description Language for BDI Multi-Agent Systems*, 9th Agent Oriented Information Systems Conference, Hakodate, Japan, 2006.
- Kolp Manuel, Dehousse Stéphane, Faulkner Stéphane, Mouratidis H., Giorgini P., *Reasoning about Willingness in Networks of Agents*, International Workshop on Software Engineering for Large-scale Multi-Agent Systems, Shanghai, China, 2006.

- Yen Luh, Suerens Marco, Pirotte Alain, *An experimental investigation of graph kernels on a collaborative recommendation task*, 2006 IEEE International Conference on Data Mining, 2006.
- Yen Luh, Achbany Youssef, Fouss François, Suerens Marco, Pirotte Alain, *Optimal Tuning of Continual Online Exploration in Reinforcement Learning*, 16th International Conference on Artificial Neural Networks (ICANN 06), Berlin, 2006.
- Sousa Kenia Soares, Mendonça Hildeberto, Furtado Elizabeth, *Applying a Multi-Criteria Approach for the Selection of Usability Patterns in the Development of DTV Applications*, Simpósio sobre fatores humanos em sistemas computacionais, Natal, Brasil, 2006.
- Martinez Ruiz Francisco Javier, Muñoz Arteaga Jaime, Vanderdonckt Jean, Gonzalez Calleros Juan Manuel, *A First Draft of a Model-driven Method for Designing Graphical User Interfaces of Rich Internet Applications*, Proceedings of 4th Latin American Web Congress LA-Web'2006, Puebla Cholula, 25-27 October 2006, 2006, p. 32-38.
- Martinez Ruiz Francisco Javier, Muñoz Arteaga Jaime, Vanderdonckt Jean, *Transformation of XAML schema for RIA using XSLT & UsiXML*, Proc. of XIX Congreso Nacional y V Congreso Internacional de Informática y Computación de la ANIEI, Avances en Tecnologías de la Información CNCIIC'2006. Tuxtla Gutiérrez, 25-27 October 2006.
- Vanderdonckt Jean, Coyette Adrien, *Vers un prototypage des interfaces graphiques incluant vraiment l'utilisateur final*, Proc. of 10^{ème} Colloque Int. sur l'Ergonomie et l'Informatique Avancée ERGO-IA'2006, Biarritz, 11-13 October 2006, 2006, p. 31-42.
- Abrahão Silvia, Insfran Emilio, Vanderdonckt Jean, *Usabilidad en Entornos MDA: Propuesta Y Estudio Experimental*, Proc. of XV Jornadas de Ingeniería del Software y Bases de Datos JISBD'2006, Sitges, 3-6 October 2006, 2006, p. 23-33.
- De Boeck Johan, Gonzalez Calleros Juan Manuel, Coninx Karin, Vanderdonckt Jean, *Open Issues for the development of 3D Multimodal Applications from an MDE perspective*, Proc. of 2nd Int. Workshop on Model Driven Development of Advanced User Interfaces MDDAUI'2006, Geneva, 2 October 2006, CEUR Workshop proceedings, 2006, 214, p. 11-14.
- Coyette Adrien, Vanderdonckt Jean, Limbourg Quentin, *SketchiXML: An Informal Design Tool for User Interface Early Prototyping*, Proc. of RISE'2006 Workshop on Rapid User Interface Prototyping Infrastructures Applied to Control Systems RUIPIACS'2006, Geneva, 13 September 2006, 2006.
- Lepreux Sophie, Vanderdonckt Jean, Michotte Benjamin, *Visual Design of User Interfaces by (De)composition*, Proc. of 13th Int. Workshop on Design, Specification, and Verification of Interactive Systems DSV-IS'2006, Dublin, 26-28 July 2006, Lecture Notes in Computer Science, 2006, 4323, p. 157-170.
- Stanculescu Adrian, Vanderdonckt Jean, *Design Options for Multimodal Web Applications*, Proc. of 6th Int. Conf. on Computer-Aided Design of User Interfaces CADUI'2006, Bucharest, 6-8 June 2006, Computer-Aided Design of User Interfaces, 2006, 5, p. 41-56.
- Florins Murielle, Montero Francisco, Vanderdonckt Jean, Michotte Benjamin, *Splitting Rules for Graceful Degradation of User Interfaces*, Proc. of 8th Int. Working Conference on Advanced Visual Interfaces AVI'2006, Venezia, 23-26 May 2006, 2006, p. 59-66.
- Trevisan Daniela, Nedel Luciana, Macq Benoît, Vanderdonckt Jean, *Detecting Interaction Variables in a Mixed Reality System for Maxillofacial-guided Surgery*, Proc. of 8th SBC

- Symposium on Virtual Reality SVR'2006, Belém do Pará, 2-5 May 2006, 2006, 1, p. 39-50.
- Florins Murielle, Montero Francisco, Vanderdonckt Jean, Michotte Benjamin, *Splitting Rules for Graceful Degradation of User Interfaces*, Proc. of 10th ACM Int. Conf. on Intelligent User Interfaces IUI'2006, Sydney, 29 January-1 February 2006, 2006, p. 264-266.
 - Molina José Pascal, Vanderdonckt Jean, Gonzalez Pascual, *Direct Manipulation of User Interfaces for Migration*, Proc. of 10th ACM Int. Conf. on Intelligent User Interfaces IUI'2006, Sydney, 29 January-1 February 2006, 2006, p. 140-147.
 - Demeure Alexandre, Calvary Gaëlle, Coutaz Joëlle, Vanderdonckt Jean, *The Comets Inspector: Towards Run Time Plasticity Control based on a Semantic Network*, PreProc. of 5th Int. Workshop on Task Models and Diagrams for User Interface Design TAMODIA'2006, Hasselt, 23-24 October 2006, 2006, p. 199-206.
 - Fouss F., Yen L., Pirotte A. & Saerens M. (2006), *An experimental investigation of graph kernels on a collaborative recommendation task*. Proceedings of the 2006 IEEE International Conference on Data Mining (ICDM 2006), pp. 863-868

4. Other publications

- Kolp Manuel, Wautelet Yves, Schinckus Christophe, *A Lakatosian Approach to Agent Software Engineering*, 2006, Cahiers du CEREC.

5. International research activities

5.1. Workshops and Conferences

KOLP MANUEL

- M. Kolp, B. Hendersen-Sellers, H. Mouratidis, A. Ghoze AOIS 2006 - 9th International Bi-Conference on Agent Oriented Information Systems, Hakodate, Japan & Luxembourg, Mai & Juin, 2006

SAERENS MARCO

- Various workshops or lectures organized by the Computational Intelligence and Learning doctoral school, Belgium (CIL, www.uclouvain.be/doctoralschool-cil)

VANDERDONCKT JEAN

- 6th Int. Conf. of Computer-Aided Design of User Interfaces CADUI'2006, 6-8 June 2006
- Int. Workshop on Web Information Systems Modeling WSDM'2006
- 2nd Int. Workshop on Model Driven Development of Advanced User Interfaces MDAAUI'2006

- 3rd International Workshop on Metamodels, Schemas, Grammars, and Ontologies for Reverse Engineering ATEM'2006

WINKLER MARCO

- 6th International Workshop on Software-Oriented Technologies, Como, Italy, July 16th 2007
- 6th International Workshop on TAsk-MODels and DIAgrams, Toulouse, France, 7-9 November 2007

5.2. Academic Visits

KOLP MANUEL

Visits to Other Institution

- Université libre de Bruxelles, Faculté des Sciences Sociales, Economiques et Politiques
- University of Trento, Italy

SAERENS MARCO

Visits to Other Institution

- XEROX Research Center, Europe
- IRIDIA Laboratory, Université Libre de Bruxelles

VANDERDONCKT JEAN

Visits to Other Institution

- BBC Research, Upton, United Kingdom
- Univ. of Karlsruhe, Prof. A. Weibel
- EPFL, Lausanne, Switzerland, Prof. J.-Ph. Thiran
- University of Hasselt, Prof. K. Coninx
- Polytecnic University of Valencia (Spain), Dept. of Information Systems, Prof. O. Pastor
- Université Joseph Fourier (Grenoble, France), Institut de Mathématiques Appliquées de Grenoble (IMAG), Dépt. CLIPS, Prof. J. Coutaz
- National Center for Research & Development in Informatics (Bucharest, Romania), Dr. C. Pribeanu

Visitors

- Prof. L. Nigay, Université Joseph Fourier (Grenoble, France)
- Dr. Gaëlle Calvary, Université Joseph Fourier (Grenoble, France)
- Prof. Ph. Gray, University of Glasgow (Glasgow, Scotland)
- Dr. C. Pribeanu, ICI (Bucharest, Romania)
- Prof. C. Kolski, Université de Valenciennes (Valenciennes, France)

6. Research Collaborations

6.1. Research Contracts

KOLP MANUEL

- *SKwyRL: Socio-Intentional ArChitecture for Knowledge Systems and Requirements ELicitation*

Financial Support : FSR-UCL, CGRI-AUF

IAG Principal Investigator : Manuel Kolp

Short description :

The project aims at identifying and developing a collection of specific social and intentional architecture patterns for designing agent-based systems. It proposes to use human organizations as a metaphor to suggest a set of generic patterns for agent systems, with a preference for organizational design theories over social emergence theories. Patterns from organization theory describe the internal structure of organizations while theories for strategic alliances model the external collaboration of independent organizations that pursue agreed goals. Design parameters such as task assignment, standardization, supervision, management control, and strategy definition will be used to handle situational and contingency factors. The research will formalize these social and intentional patterns, and characterize precisely how a particular model can be seen as an instance of a pattern. The patterns will be compared with software architecture patterns such as pipes-and-filters, event-based, layered, control loop, and related to lower-level (software) components, ports, connectors, interfaces, libraries and configurations. The project will also propose desirable qualities of social structures such as adaptivity, ease of coordination, predictability, and fault tolerance, and define methods for evaluating a given social structure with respect to a set of qualities.

- *Agent-oriented modeling and development of production systems for steel manufacturing*

Financial Support : Carsid SA, Walloon Region

IAG Principal Investigator : Manuel Kolp

Short description :

The project models part of the production systems of the « Coke-Fonte-Energie » Operation Center of CARSID and their applications in order to progressively re-engineer them. Such systems are particular in the sense they manage synchronous data: thousands of variables are received every minute from numerous sensors all around the manufactories. The project also proposes the development of a software project management process that could be parameterized for the different CARSID manufactories.

- *A Multi-Agent Recommendation System Based for Sharing of Knowledge: Région Wallonne, Denali S. A.*

Financial Support : FIRST Entreprise contract (Région Wallonne)

IAG Principal Investigator : Manuel Kolp, Marco Saerens

Short description :

This project proposes an agent-based recommendation system for supporting communities of people in their searching task. To find information of quality from multiple heterogeneous sources is increasingly difficult. This problem finds its origin in the fast growth of the number of information available. The various formats used to store the data can also be problematic for the recommendation process. Nevertheless, for a community of people with similar interests, quality of results can be improved exploiting also the experience of the community. This experience can be shared and strengthened by all members of the same community to respond to their expectations by furnishing the best information on a specific topic.

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- *Network Analysis, Clustering and Relationship mining (NACRE)*

Financial Support : Région de Bruxelles-capitale (2005-2007)

Short description :

This project is funded by the "Region de Bruxelles-Capitale" and has been introduced in partnership with "VADIS Consulting", a data mining company closely related to "Wegener/Sopres". Its aim is to develop novel statistical analysis and visualization methods for large, weighted, graphs. In particular, we are interested in the analysis of telecommunication networks, viewing the network of mobile phone calls as a weighted graph. The objective is to identify dense clusters of users (communities), which are highly connected, or "central persons" in the network. Identifying dense clusters or central users is important for several reasons; for instance in order to be able to forecast "churn".

- *A Multi-Agent Recommendation System Based for Sharing of Knowledge*

Financial Support : FIRST Enterprise contract - Région Wallonne(2005-2006)

Short description :

This project is funded by the "Region wallonne" and has been introduced in partnership with "CITObi", an internet marketing automation and CRM company. Its aim is to develop new collaborative recommendation methods, based mainly on new notions of distances on a graph. Collaborative recommendation models are mainly used to recommend items to users, based on their previous purchases (as in amazon.com). These novel concepts of distances are based on models of random walk on a graph (Markov models) and on the concept of "stochastic complementation", that account for all the possible paths between two nodes (and not only the shortest one as for the geodesic distance). These dissimilarities are then used in order to compute the proximity between elements of different tables of a relational database. An industrial application, with the collaboration of CITObi, is under development.

- *Automatic Structure Induction from Flat Texts (STRATEGO)*

Financial Support : Région Wallonne (2007-2010) - WIST2 project

Short description :

This project is funded by the "Region Wallonne" and has been introduced in partnership with IRIS S.A., Denali S.A. and MENTIS SPRL. Its aim is to develop novel machine learning and data mining methods for the automatic structure induction from flat, scanned, texts and their XML DTDs. In particular, we are interested in jointly structuring and classifying the scanned manuscripts.

VANDERDONCKT JEAN

- *Harmonia, Inc. (USA)*

Financial Support : contrat direct

Short description :

This project is aimed at defining a User Interface Description Language (UIDL) for multi-platform user interfaces of information systems. This language should be supported by validated software tools and is currently being submitted to OASIS as a standard proposal.

- *CARE Tech., Denia (Spain)*

Financial Support : bourse de post-doctorat

Short description :

This project is aimed at defining a user interface model (both abstract and concrete) for the Oliva Nova© Model Execution suite commercialized by CARE Tech.

- *Ambient intelligence*

Financial Support : FWO

Short description :

This project is aimed at sharing experiences in using models for context of use as they should be in ambient intelligence. This project is coordinated by EDM-LUC (Univ. of Hasselt)..

- *MULPLEX research project (Automated generation of plastic multi-channel inter-faces for on-line courses and exercises based on a learner model)*

Financial Support : Walloon Region, Convention n°EP1A320501 R054F/415737

Short description :

This project is aimed at designing, defining, and developing techniques for multi-platform eLearning systems, in particular for Personal Digital Assistants (PDAs).

- *European COST Action MAUSE "Towards The Maturation of IT Usability Evaluation"*

Financial Support : European Commission, COST Action n°294

Short description :

This project is aimed at investigating Usability Evaluation Methods (UEMs) for information systems and to provide a common framework for using UEMs depending on the information system type.

- *REQUEST research project (Rapid prototyping of e-commerce applications), "WIST" Wallonie Information Science & Technology research program*

Financial Support : Walloon Region, Convention n°315592

Short description :

This project is aimed at developing a model-based approach for designing eCommerce applications from sketches of its user interface.

- *DESTINE research project (Design & Evaluation Studio For Intent-Based Ergonomic Web Sites), "WIST" Wallonie Information Science & Technology research program*

Financial Support : Walloon Region, Convention n°315577

Short description :

This project is aimed at developing a software for automated web usability evaluation based on usability guidelines stored in a Guideline Definition Language (GDL).

- *The SIMILAR network of excellence (The European research taskforce creating human-machine interfaces SIMILAR to human-human communication)*

Financial Support : European Commission, FP6-IST1-2003-507609

Short description :

This project is aimed at developing a software for automated web usability evaluation based on usability guidelines stored in a Guideline Definition Language (GDL)

- *Plasticité des Systèmes Interactifs*

Financial Support : CNRS France

Short description :

This project is aimed at investigating adaptation of user interfaces to the context of use

- *Evaluation du site de la Sécurité Sociale*

Financial Support : Smals-MvB

Short description :

This project is aimed at evaluating the usability of the Belgian Social Security web site according to heuristic evaluation based on usability guidelines

- *Evaluation du site Walmart*

Financial Support : Walloon Region

Short description :

This project is aimed at evaluating the usability of a web site for managing material acquired in research projects in Walloon Region.

6.2. Doctoral program

6.2.1. Doctoral Dissertations

JEAN VANDERDONCKT

Muriel Florins, *Graceful degradation of User Interfaces*, IAG Louvain School of Management, UCL, 2006

Laurent Bouillon, *Reverse engineering of user interfaces*, IAG Louvain School of Management, UCL, 2006.

6.2.1. On-Going PhD Research Projects

JEAN VANDERDONCKT

- Adrien Coyette: *An Informal Design Tool for User Interface Early Design* (2007)
- Juan Manuel Gonzalez Calleros: *Model-based development of three dimensional user interfaces* (2008)
- Adrian Stanciulescu: *A Design Space for Developing Multimodal User Interfaces of Information Systems* (2008)
- Josefina Guerrero: *Conceptual Modeling of User Interfaces to Workflow Information Systems* (2008)

MANUEL KOLP

- Adrien Coyette: *An Informal Design Tool for User Interface Early Design* (2007)
- Tai Nguyen: *A methodology for Business Services Development and Composition* (2007)
- Yves Wautelet : *Multi-Agent Iterative Development for Managing Enterprise Information Systems* (2007)
- Youssef Achbany: *Optimal Tuning of Continual Online Exploration in Reinforcement Learning used in a Dynamic Task Allocation within an Open Service-Oriented MAS Architecture* (2008)
- Hang Hoang : *Development of a Non Functional Requirements Framework for Multi-Agent Systems* (2009)
- Caroline Herssens: *Integrating Quality of Services into Agent-Oriented Web Services* (2011)
- Tran Thi Ai Vi: *Reverse Engineering User Interface from Complex Queries* (2011)

MARCO SAERENS

- François Fouss: *Measures of similarity on graphs: investigation and application to collaborative recommendation* (2007)
- Youssef Achbany: *Optimal Tuning of Continual Online Exploration in Reinforcement Learning used in a Dynamic Task Allocation within an Open Service-Oriented MAS Architecture* (2008)
- Luh Yen: *Community detection based on kernels on a graph* (2008)