
Curriculum Vitae: Dr. Paul de Vrieze

Personal data

Name : P.T. de Vrieze (Paul)
Address : Krüsisstrasse 8, 9000 St. Gallen, Switzerland
Birthdate : 30 September 1979
Telephone number : +41 76 7261582 (Mobile) / +41 71 244 2914 (Home)
E-mail : pdevrieze@acm.org
Marital State : Married
Nationality : Dutch

Education 2002 – 2006 Radboud University Nijmegen, The Netherlands

Ph.D. Information Science

- Thesis title: Fundamentals of Adaptive Personalisation
- Supervisors: Prof.dr. Theo van der Weide and Dr. Patrick van Bommel

1997 – 2002 Tilburg University, The Netherlands

M.Sc. Information Science

- Thesis title: Improving Search Engine Technology
- Supervisor: Dr. Jian Yang

Professional experience May. 2008 – Now SAP Research CEC St. Gallen, St. Gallen, Switzerland

Senior Researcher, Project Leader

At SAP Research I have been leading the SAP team of the European FP7 FAST (Fast and Advanced Storyboard Tools) project. This project aims to create a development environment for the development of visual mini applications (gadgets) by end-users.

- Research the use of ontologies as a meta model for web service API's, with the purpose of enabling semi-automatic composition of independently developed components.
- Evaluate the use of context dependencies to automate or facilitate composition of components
- Assess typesystem requirements for the expression of relationships between various API elements, and restrictions upon them. This to enable assisted composition.
- Lead the project, including responsibility for cooperation with partners, time schedule, financial and risk reporting etc.
- Manage the project team at SAP.

Jul. 2007 – Feb. 2008 CSIRO Tasmanian ICT Centre, Hobart, Australia

Postdoctoral Research Fellow

- Adaptation model evolution in long lived user adaptive systems. Using ontology based adaptation model change management and integration.
 - Specify individual adaptation models
 - Handle different adaptation models and integrate them in the information system

- Controlling adaptation model complexity
 - Decomposing adaptation models into independent parts
 - Automatic merging of adaptation models

Sep. 2006 – Feb. 2007 AT-Computing, Nijmegen, The Netherlands

IT Consultant

Consulting in the following areas

- Analyze and improve performance of a radar monitoring system
- Development of shipping traffic analysis system
- Simulation
- Organization of system / network administration
- Troubleshooting programming issues

Apr. 2002 – Jun. 2006 Radboud University Nijmegen, The Netherlands

Researcher

- Research on a theoretical model to describe and design user adaptive behaviour in user adaptive systems.
 - The various advanced uses of the model are demonstrated.
 - The range of application of the model is shown by using various cases.
- The development of an efficient method for the design of adaptive behavior.
 - The method works according to the theoretical model, leveraging the strengths of the model.
 - The method is dependent of the used system design methodology. It is complementary to this methodology.
- The development of a framework for the evaluation of the quality of adaptive personalisation.
 - The framework consists of three levels. From preliminary evaluation, to user testing.
 - the framework allows the evaluation of individual aspects of the adaption.
- The development of a prototype in Java with which the model and method were tested.

The developed model distinguishes itself from existing systems by being universally applicable. It is even possible to share user information between different programs without having significant limitations on the individual programs. Using the model user privacy can be protected.

The prototype was used to test a number of adaptative programs that were developed by means of the prototype. This testing confirmed the theoretical consistency and practical applicability of the model and the method.

Implementation

Develop a prototype for the PRONIR (Profile Based Retrieval Of Networked Information Resources) project, funded by NWO (Netherlands Organization for Scientific Research) that provides document format conversion abilities to search engines. This involved creating a system for depth first search with loop detection of conversion paths.

Apr. 2001 – Feb 2002 Tilburg University, The Netherlands

Master project

- Evaluate classification based information retrieval

- Create a prototype system that receives and forwards a search query, retrieves and classifies the resulting documents, and presents the results to the user in a new order based on the classification

Apr. 2003 – now Gentoo Foundation (Gentoo Linux distribution)

Developer

- Maintain packages such as openoffice.org and subversion
- Trustee for the foundation and co-manager of the project (part of the time)

**Teaching
experience**

- Supervise 3 Ph.D. students within the FAST project (2008)
- Develop, revise and deliver the Java course (2006, 2007)
- Deliver the unix/linux principles course (2006, 2007)
- Prepare teaching material for a new J2EE course (2006, 2007)
- Second supervisor of master student (2006)
- Information retrieval (2005, 2006)
- Storage and retrieval (2006)
- Supervising master project on topic “Guiding children on the Internet” (2006)
- Invited seminar at University of Twente, The Netherlands (2005)
- Invited seminar at Technical University of Eindhoven, The Netherlands (2005)
- Expert systems & Neural networks (2000, 2001)
- Writing the expert systems reader (2000, 2001)
- Business intelligence (2000, 2001)
- Information management (1999)
- Coaching of foreign students on their computer science course (1998)

**Research
Interests**

- Information systems
- User adaptive systems (user modelling)
- Ontology based adaptation model management
- System design, modelling
- Web services
- Service oriented architectures
- Information system architecture
- Programming concepts
- Business Process Management

Key publications

[1] Lai Xu and Paul de Vrieze. Adaptation driven change management. In *International Conferene on Health Informatics (HEALTHINF 2009)*, Porto, Portugal, January 2009.

[2] Lai Xu and Paul de Vrieze. *Consumer Behavior, Organizational Development, and Electronic Commerce: Emerging Issues for Advancing Modern Socioeconomies*, chapter Business Process Outsourcing Modeling. Idea Group, 2009.

[3] Lai Xu and Paul de Vrieze. *Encyclopedia of Information Science and Technology*, chapter E-contracting Challenges. Idea Group, USA, second edition, September 2008.

- [4] Lai Xu and Paul de Vrieze. Fundamentals of virtual organization e-contracting. In *8th IFIP Working Conference on Virtual Enterprises*, Lecture Notes in Computer Science, Guimaraes, Portugal, 2007.
- [5] Paul de Vrieze, Patrick van Bommel, and Theo van der Weide. A method for incorporating user modelling. *Journal of Digital Information Management*, 4(2):135–140, June 2006.
- [6] B. van Gils, H.A. Proper, P. van Bommel, and P. de Vrieze. Transformation selection for aptness-based web retrieval. In *Sixteenth Australasian Database Conference (ADC2005)*, Sydney, New South Wales, Australia, Februari 2005.
- [7] Paul de Vrieze, Patrick van Bommel, Jakob Klok, and Theo van der Weide. Adaptation in multimedia systems. *Multimedia Tools and Applications*, 25(3):333–343, March 2005.
- [8] Paul de Vrieze, Patrick van Bommel, and Theo van der Weide. A generic adaptive model in adaptive hypermedia. *Lecture Notes in Computer Science*, 3137:344–347, August 2004.
- [9] Paul de Vrieze, Patrick van Bommel, and Theo van der Weide. A generic engine for user model based adaptation. In *Proceedings of User Interfaces for All 2004*, Vienna, 2004.
- [10] Paul de Vrieze, Patrick van Bommel, Jakob Klok, and Theo van der Weide. Towards a two-dimensional framework for user models. In *Proceedings of the MAWIS03 workshop attached to the OOIS03 conference*, Geneva, 09 2003.
- [11] M. T. (Ed.) Smits, P. M. A. (Ed.) Ribbers, B. Alders, E. van O’ Callaghan, R. and Heck, E. van den Heuvel, R. R. Peterson, G. J. van der Pijl, E. Smakman, R. W. L. Spanjers, and P. T. de Vrieze. Networked enterprises of the future and enabling telematics infrastructure. Technical report, Telematics Institute, 1999.

Professional Services

- I have been invited to give a tutorial at the International Conference on Web-based Learning 2007 conference.
- I have been co-organizer of the institute colloquium at the Radboud University Nijmegen for a two year span.
- I am program member of:
 - The 4th International Workshop on Workflow Management (ICWM, 2009)
- I have been a reviewer for the following international journals and conferences:
 - User Modeling and User-Adapted Interaction
 - Journal of Internet Commerce
 - Journal of Strategic Information Systems
 - Data & Knowledge Engineering Journal
 - Electronic Markets
 - Journal of Electronic Commerce Research
 - IEEE Transactions on Automation Science and Engineering (2008)
 - The 6th International Conference on Service Oriented Computing (ICSOC, 2008)
 - 2008 IEEE Asia-Pacific Services Computing Conference (IEEE APSCC 2008)
 - International Conference on E-Business (ICE-B 2008)
 - International Conference on Advances in Computer Science and Technology (ACST 2008)
 - The 4th International Conference on Grid and Service Engineering and Management (GSEM 2007)
 - The 3rd International Workshop on Grid and Peer-to-Peer based Workflows (GPWW 2007)
 - International Conference on E-Business (ICE-B 2007)

- International Conference on Advanced Information Systems Engineering (CAiSE 2007)
- International Conference on E-Business (ICE-B 2006)
- International Conference on Advanced Information Systems Engineering (CAiSE 2006)
- International Conference on Advanced Information Systems Engineering (CAiSE 2005)
- International Conference on Service-Oriented Computing (ICSOC 2005)
- Eleventh International Workshop on Requirements Engineering: Foundation for Software Quality (REFSQ 2005)
- The First International Workshop on Network Architecture and Service Models 2005 (NASM 2005)
- The 2005 IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE-05)
- The 2004 IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE-04)
- Adaptive Hypermedia 2004 Conference (AH2004)
- The 3rd International Joint Conference on Autonomous Agents and Multi Agent Systems (AAMAS-2004)
- International Conference on Cooperative Information Systems (CoopIS-03)
- The IEEE Conference on E-Commerce 2003 (CEC'03)

Professional Affiliations

- Institute for Electrical and Electronics Engineers (IEEE) Computer society
- Association for Computing Machinery (ACM)
- Dutch Research School for Information and Knowledge Systems (SIKS)

Language abilities

- Mother language: Dutch
- English: Fluent written and spoken
- German and French: Sufficient

Computer abilities

I am expert in the design and functioning of Linux/unix and Java. Besides that I have broad experience with most used programming languages like C, C++, Java, PHP, XML and XSLT as well as the ability to learn other languages very rapidly.

References

Available upon request