

Résumé Doc.dr. Ir. Henri Achten

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2009**

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Marital Status: Married
Nationality: Netherlands.
Date of Birth: 9-1-1967 (Venlo, Netherlands).
Languages: Dutch, English, German, Czech.

Academic Degrees

- 1986-1992 **M.Sc. Technische Universiteit Eindhoven, Faculteit Bouwkunde**
MSc. Degree in Architecture, at Groep Ontwerp Methoden. Diploma work: *From Bulwark to Museum*. Architectural design of a Museum of History in Venlo.
- 1993-1997 **Ph.D. Technische Universiteit Eindhoven, Faculteit Bouwkunde**
Ph.D. in the Technical Sciences. *Generic Representations: An Approach for Modelling Procedural and Declarative Knowledge of Building Types*. Prof.dr.ir. M.F.Th. Bax and Prof.dr. R.M. Oxman.
- 2007- **Docent at Faculty of Architecture, Czech Technical University in Prague**
Docent habilitation defense. Title of habilitation work (2003): *Computer-Aided Design Support of Well-Structured Graphic Representations in Architectural Design*. Opponents: Prof.dr.ir. Bauke de Vries, Prof.dr.ing. Stefan K. Wrona, Ing. Petr Vanek.

Work

- 1998-2000 **Post-doc Researcher – Technische Universiteit Eindhoven, Faculteit Bouwkunde**
Virtual Reality – Design Information System Research Programme.
- 2000- **Assistant Professor – Technische Universiteit Eindhoven, Faculteit Bouwkunde**
Design Theory and Computer Aided Architectural Design.
- 2005- **Assistant Professor – Czech Technical University Prague, Faculty of Architecture**
Computer Aided Architectural Design.

Research Activities

- 1998-2001 Researcher in the VR-DIS research programme.
- 1999-2000 Participant in *AVOCAAD workshop* (1999, Brussels); *TWL Workshop* (1999, Enschede); *WEDA/ILSA workshop* (1999, Eindhoven); *{Accolade} workshop* (2000, Brussels), *Design and the Growth of Knowledge* (2005, Delft).
- 1999-2004 Research mentor in *E3DAD* PhD-projects Design Systems/W&I/IPO.
- 2001-2004 Project coordinator of *EFOS II: European Flexible Office Systems II*.
- 2002 Sabbatical project *Multi-Agent Systems and Generic Representations* at Czech Technical University Prague, Faculty of Architecture, May-November 2002.
- 2002-2003 Research project *Agents and Ontologies* with Faculty of Mechanical Engineering of the Czech Technical University in Prague.
- 2006-2009 Participant in research project *Experimental Designing Methods – New Trends in the Methodology of Designing Architectural and Construction Works*, Technical University in Prague.

PhD Students

- 1999-2004 Co-promotor Segers, N. (2004). *Computational Representations of Words and Associations in Architectural Design*. TU/e, Faculteit Bouwkunde.
- 2000-2004 Scientific Advisor PhD-committee Pranovich, S. (2004). *Structural Sketcher: A Tool for Supporting Architects in Early Design*. TU/e, Faculteit Wiskunde & Informatica.
- 2005 Member assessment committee PhD-thesis Mullins, M. (2005). *Representational Thickness: Virtual Reality in Participatory Design*, Aalborg University, Faculty of Engineering and Science.
- 2006-2008 Promotor Chladek, P. *Digitálna Architektúra – Nástroje abstrakcie v procese navrhovania a realizácie architektonických produktov* (Digital Architecture – Tools of abstraction in process of designing and producing of architectural product), Czech Technical University, Faculty of Architecture. Successfully defended 6 march 2008.
- 2006- Promotor Fischer, M. *The use of 3D model database of Czech Cubist buildings*. FA, ČVUT.
- 2006- Promotor Garlík, R. *The use of XML in the Czech Building & Construction Industry*. FA, ČVUT.
- 2006- Promotor Talašová, Z. *Fuzzy modelling of the Adolf Loos design rules*. FA, ČVUT.
- 2006- Promotor Matejovska, D. *Improvement of ICT-supported education Computer-Aided Architectural Design education*. FA, ČVUT.
- 2007- Promotor Hlouch, D. *Collaborative design in architecture*. FA, ČVUT.

Teaching at TU/e

- 1995 Co-teacher in *Knowledge-Based Systems Course*.
- 1996-1997 CAAD Design Studio.
- 1997-2002 First year *Design Methodology and CAAD Course*.
- 1997-2003 VR Design Studio. Studio teaching of Design Systems projects.
- 1998 Fifth year design studio teaching of graduation projects van den Bergh/Bosman.
- 1998-2003 Fourth year multidisciplinary design projects, participating tutor.
- 1999-2003 *International CAD Course* for foreign students at TU/e.
- 1998-2008 Supervisor 30 completed MSc. Projects.
- 1999- Third year *Advanced CAAD, design methodology, and (urban) design course*.
- 2003-2008 First year *Information Gathering and Use* course.
- 2002- *Design project* for DDSS Master Programme.
- 2003 Co-teacher in *Design Knowledge Modelling* course for DDSS Master Programme.
- 2003- Co-teacher in *Decision Support Systems* course for DDSS Master Programme.
- 2005- *Design Methodology + Design Theory* course for ADMS Programme.
- 2005- Supervisor 2 ADMS business assignment graduation projects.

Teaching at ČVUT

- 2005- Fourth and fifth year advanced modelling with 3DStudio Max in regular programme.
- 2005- Third and fourth year basic modelling with 3DStudio Max in regular programme.
- 2005- Basic modelling with 3DStudio Max for international exchange students.
- 2005-2006 Assistant in design studio Prof. Pospíšil. Head of studio projects “Housing at Jugoslávských partyzánů and Verdunská,” (2 students) and “Museum Island Prague” (3 students).
- 2006-2007 Assistant in design studio doc. Florián. Head of studio project “Olympic games 2016” and other projects (12 students).

- 2006-2008 Assistant in design studio ing. Pata. Head of studio project “Olympic games 2016” and other projects (14 students, incl. 3 BSc. Diploma work)
- 2008- Head of elective experimental CAD atelier (8 students).
- 2006- *Engineering Informatics* in PhD teaching programme.

Additional Teaching Activities

- 1999 AutoCAD Course European Master TRUE, HUT Helsinki, January 1999.
- 2001 Workshop *CAAD and Architecture*, CVUT Prague, February 5-9 2001.
- 2003-2005 Guest teacher at CVUT Prague, Faculty of Architecture, Faculty of Civil Engineering (2005).
- 2004 Workshop *DIGIReal Architecture*, CVUT Prague, February 23-27 2004.
- 2005 Workshop *Digitální Architekt (Digital Architect)*, CVUT Prague, March 14-18 2005.
- 2006 Workshop *Algoritmus za Ornaementem (Algorithm and Ornament)*, CVUT Prague, March 15-20 2006.
- 2006 Workshop *Architektu(H)ra*, Ještěd Liberec, May 12-14 2006.

Additional Education Followed

- 2000 Basics course C Programming Language.
- 2001-2002 Didactisch Inwerktraject TU/e (*Didactic Starters Programme TU/e*); Theatervaardigheden in het Onderwijs (*Theatrical Techniques in Education*); Optimaliseren Hoorcolleges (*Optimising Lectures*); Doceren in het Hoger Onderwijs (*Teaching in Higher Education*); Verbeteren schriftelijk studiemateriaal (*Improving Textual Learning Material*).

International Research Projects

- 1996-1999 *AVOCAAD*. Leonardo da Vinci pilot project B:96/2/0539/PI/II.1.1.c/CONT.
- 1999-2002 *AVOCAAD Multiplier*. Leonardo da Vinci project B/99/1/051507/PI/III.3.a/CONT.

Organisation of Conferences

- 1994-1995 *Design Research in the Netherlands*, 3 January 1995.
- 1996 *Design Education in the Netherlands*, 13 December 1996.
- 1998 *Workshop Case-Based Reasoning and Design*, 13 November 1998.
- 1999-2000 *Design Research in the Netherlands 2000*, May 24-25 2000.
- 1999-2001 *CAAD Futures 2001*, July 8-11 2001.
- 2004-2005 *Design Research in the Netherlands 2005*, May 19-20 2005.

Reviewing and Conference Chairs

- 2000- Reviewer for *International Journal of Design Computing, Artificial Intelligence for Engineering Design, Analysis and Manufacturing, Design Studies, Electronic Journal of Information Technology in Construction, Automation in Construction, International Journal of Architectural Computing*. Book proposal reviewer for *Kluwer Academic Publishers*.
- 1995- Reviewer for *DRN 1995, 2000, 2005, EAAE-eCAADe International Workshop Computers in Design Studio Teaching 1998, eCAADe 1999-2009, AID'2000, 2002, DCC 2004, 2006, 2008, CAAD Futures 2001, 2003, 2005, 2007, 2009, EuropIA 2000, 2003, CAADRIA 2001-2002, 2004-2008, ACADIA 2004, AVOCAAD 2001, 2003, DDSS 2004, 2006, GCAD 2004, ASCAAD 2004, 2006, 2008, 2009, SIGraDI 2005, Game, Set and Match II 2006*.

- 2000- Scientific Committee 8th *EuropIA International Conference*, Delft 2000; International Advisory Committee 9th *International Conference on Computing in Civil and Building Engineering*, Taiwan 2002; Chair *Design Research in the Netherlands*, Eindhoven 2000; Vice chair 7th *International Conference on Artificial Intelligence in Design*, Cambridge; Vice chair *First International Conference on Design Computing and Cognition*, MIT, Cambridge, Massachusetts 2004; Program chair 11th *CAAD Futures International Conference*, Vienna 2005; International Scientific Advisory Committee of the 1st *International Conference on Digital Architecture 2006*, Seoul 2005; Vice chair *Second International Conference on Design Computing and Cognition*, Eindhoven 2006; Scientific Committee of the 8th *International Conference on Design & Decision Support Systems in Architecture & Urban Planning*, Heeze 2006.
- 2005 Reviewer of research project proposal from King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.
- 1995- Conference session chairs in *DRN* 1995, 2000, 2005, *DEN* 1997, *DDSS* 1998, 2000, 2002, *eCAADe* 1999-2008, *Leren Ontwerpen – Ontwerpend Leren*, *Afscheidssymposium Dr.Ir. J.T. Boekholt*, Eindhoven 2000, *AID* 2002, *CAAD Futures* 2003, 2005.

Jury Member

- 2002 Best Presentation 7th *International Conference on Artificial Intelligence in Design*, Cambridge.
- 2000-2007 *Far Eastern International Digital Architectural Design Award*, Taiwan 2000 - 2007.
- 2001-2005 *Ivan Petrovic Award eCAADe* 2001- 2005.
- 2005 *Bienal Miami+Beach* 2005.

Memberships and International Functions

- 2005-2007 President of eCAADe 2005-2009. Vice-President of eCAADe 2001-2005. Council member since 1998. Member of eCAADe since 1995.
- 2000 Member CAADRIA.
- 2002-2004 Editorial board *International Journal of Design Computing*, ISSN 1329-7147.
- 2002-2006 Coordinating committee of Research Unit *Information Design* of *USO-Built* PhD School.
- 2003- Editorial board *International Journal of Architectural Computing*, ISSN 1478-0771.
- 2006-2007 Editorial board *Computer Graphics & Geometry*, ISSN 1811-8992.
- 2008- Member *Peer Review College* of the *Danish Council for Scientific Research*.

Presentations

- 1997 *Generic Representations: Knowledge Representation for Architectural Design*, School of Architecture + Building Engineering of the University of Liverpool, Nov. 1997.
- 1999 *Creativity and CAAD: Is There Such a Thing*, Faculty of Architecture of the Technical University of Liberec, May 5th 1999.
- 1999 *Virtual Reality in Early Design: the Design Studio Experiences*, Faculty of Architecture of Georgia Tech, Atlanta, June 9th 1999.
- 2002 *The Digital Architect*, Faculty of Architecture, CVUT Prague, October 16th 2002.
- 2004 *DigiReal Architecture: New Roles for the Model*, Faculty of Architecture, CVUT Prague, February 23rd 2004.
- 2004 *Ontwerpen versus Problem Solving: De Zingeving van Zingeving in het Ontwerpproces*, ADMS STRIB Lezing, Eindhoven University of Technology, November 17th 2004.
- 2005 *Free Form Design: Some Basic Considerations* and *Free Form Design: How to Make It*, CVUT Prague, March 14, 15th 2005.
- 2005 *Digital Horizons: Architecture in the Digital Discourse*, CVUT Prague, November 1st 2005.
- 2006 *Computation as Ornament*, CVUT Prague, March 15 2006.

- 2006 *Viva la Spline!*, Ještěd Liberec, May 12 2006.
2007 *Architecture between form and sustainability*, Prague, November 8 2007.
2008 *Design processes between academic and practice views*, Delft University of Technology, June 6 2008.

Projects

- 1992 Open barn in Grubbenvorst. Executed in 1993.
1992 For Calibre Institute: Three visual impact studies and modelling for Schiphol 2015 animation.
1996-1999 Advise, drawing, and help with house in Neratov, Czech Republic (completed 1999).
2002 Stair design (realized 2002), Prague.
2002 Kitchen design (realized 2003), Prague.

Other Activities

- 1992- Websites *LAVA: LAboratorium Voor Architectuur; Design Methods Group; Design Systems; CAAD Futures foundation; Design Research in the Netherlands*.
2000-2001 Advisor in board for Appointment Selection Committee Chair Design Systems.
2001-2003 Member daily board Design Systems.
2001-2002 Member of Taskforce Internationalisering.
2001-2002 Member of workgroup DDSS Master programme.
2001 Product overview CAD and visualization software *De Architect* **32**(Juni 2001), pp. 87-93.
2005-2006 Member assessment committee for Associate Professor in Architecture at the Department of Architecture and Design, Aalborg University, Denmark.
2005-2007 Member OCB Onderwijs Commissie Bouwkunde (*Education Committee Architecture*).

Awards

- 2000 *Best Paper Presentation*, CAADRIA 2000, Singapore.
2001 *Best Use of Multimedia in the First Year Curriculum*, Architecture, Eindhoven.
2002 *Best Audiovisual Support in the First Year Curriculum*, Architecture, Eindhoven.

Publications

BOOKS

- Otter, A.F.H.J. den, Achten, H.H. and Pels, H.J. (eds.) 2008. *Selected work Architectural Design Management Systems (ADMS) 2003-2007*. Enschede: SAI-3TU, Ipskamp printpartners BV.
- Achten, H.H. 2007. *Design Computing: Principles of Computer Aided Architectural Design*. Prague: Nakladatelství ČVUT.
- Achten, H.H., Dorst, K., Stappers, P.J. and de Vries, B. 2005. *Design Research in the Netherlands 2005 – Proceedings of the Symposium held on 19-20 May 2005*. Bouwstenen 92. Eindhoven: TU/e.
- Achten, H.H. 2004. *On the Computation of Well-Structured Graphic Representations in Architectural Design*. Bouwstenen 88. Eindhoven: TU/e.
- Vries, B. de, J.P. van Leeuwen, and H.H. Achten (eds.) 2001. *CAAD Futures 2001 - Proceedings of the 9th International Conference on Computer Aided Architectural Design Futures*. Dordrecht: Kluwer Academic Publishers.
- Achten, H.H., B. de Vries and J. Hennessey (eds.) 2001. *Design Research in the Netherlands 2000 - Proceedings of the Symposium*. Bouwstenen 63. Eindhoven: TU/e.
- Achten, H.H.: 1997. *Generic Representations - An Approach for Modelling Procedural and Declarative Knowledge of Building Types in Architectural Design*. Ph.D. Thesis, Eindhoven: TU/e.
- Oxman, R.M., M.F.Th. Bax, and H.H. Achten (eds.) 1995. *Design Research in the Netherlands*. Bouwstenen 37. Eindhoven: TU/e.

JOURNAL ARTICLES

- Achten, H.H. 2006. *Towards Real-Time Design Drawing Recognition*. *Computer Geometry & Graphics*. **8**(2):16-28.
- Vries, B. de, Jessurun, J., Segers, N. and Achten, H. 2005. *Word Graphs in Architectural Design*. *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*. **19**:277-288.
- Segers, N.M., de Vries, B. and Achten, H. 2005. *Do Word Graphs Stimulate Design?* *Design Studies*. **26**(6):625-647.
- Pranovich, S., Achten, H.H., Vries, B. de and van Wijk, J. 2005. *Structural Sketcher - Representing and Applying Well-Structured Graphic Representations in Early Design*. *International Journal of Architectural Computing*. **3**(1):75-91.

- Vries, B. de, Tabak, V. and Achten, H.H. 2005. *Interactive Urban Design Using Integrated Planning Requirements Control*. *Automation in Construction*. **14**(2):207-213.
- Vries, B. de, H.Achten, M.Orzechowski, A.Tan, N.Segers, V.Tabak, J.Jessurun, and M.Coomans. 2003. *The Tangible Interface – Experiments as an integral part of a research strategy*. *International Journal of Architectural Computing*. **1**(2):133-152.
- Achten, H.H. 2003. *New Design Methods for Computer Aided Architectural Design Methodology Teaching*. *International Journal of Architectural Computing*. **1**(1):72-91.
- Achten, H.H. and Jessurun, J. 2003. *A Multi-Agent Mah Jong Playing System: Towards Real-Time Recognition of Graphic Units in Graphic Representations*. *Acta Polytechnica*. **43**(2):28-33.
- Vries, B. de and Achten, H.H. 2002. *DDDoolz: Designing With Modular Masses*. *Design Studies*. **23**(6):515-531.
- Achten, H.H. 1997. *Generic Representations - Knowledge Representation for Architectural Design*. *Journal of Architectural Management* **13**:117-128.
- ARTICLES IN (CONFERENCE PROCEEDINGS AS) BOOKS**
- Achten, H.H. 2008. *Design Processes Between Academic and Practice Views*. In Poelman, W. and Keyson, D. (eds.) *Design Processes: What Architects & Industrial Designers can teach other about managing the design process*. Delft: Delft University Press, pp. 14-27.
- Achten, H.H. 2008. *Design methods and design theory for architectural design management*. In Otter, A.F.J.H., Achten, H.H. and Pels, H.J. (eds.) *ADMS Selected Work 2003-2007*. Enschede: SAI-3TU, Ipskamp printpartners BV, pp. 121-124.
- Achten, H.H. 2005. *Resolving Some Ambiguities in Real-Time Design Drawing Recognition by Means of a Decision Tree for Agents*. In Martens, B. and Brown, A. (eds.) *Computer Aided Architectural Design Futures 2005 - Proceedings of the 11th International CAAD Futures Conference Held at the Vienna University of Technology, Vienna, Austria on June 20-22, 2005*. Dordrecht: Springer: 311-320.
- Achten, H.H., van Leeuwen, J.P. and Fridqvist, S. 2004. *Communicating Concepts for Shared Understanding: A Multi-Agent Approach*. In Stellingwerff, M. and Verbeke, J. (eds.) *Local Values in a Networked Design World - Added Value of Computer Aided Architectural Design*. Delft: Delft University Press:183-196.

- Vries, B. de, Segers, N.M., Jessurun, A.J. and Achten, H.H. (2004). Word Graphs in Architectural Design. In Gero, J.S. and Knight, T. (eds.) *Proceedings International Conference on Design Computing and Cognition 2004*, Kluwer Academic Publishers, Dordrecht: 541-556.
- Achten, H.H. and A.J. Jessurun. 2003. Learning From Mah Jong - Towards a Multi-Agent System That Can Recognize Graphic Units. In Chiu, M., Tsou, J., Kvan, T., Morozumi, M., Jeng, T. (eds.): *Digital Design: Research and Practice - Proceedings of the 10th International Conference on Computer Aided Architectural Design Futures*. Kluwer Academic Publishers, Dordrecht: 115-124.
- Pranovich, S., Achten, H.H. and Wijk, J.J. van 2002. Towards an Architectural Design System Based on Generic Representations. In Gero, J.S. (ed.): *Artificial Intelligence in Design '02*. Kluwer Academic Publishers, Dordrecht: 153-164.
- Vries, B. de, H.Achten, M.Coomans, J.Dijkstra, S.Fridqvist, J.Jessurun, J. van Leeuwen, M. Orzechowski, N. Segers, and A. Tan. 2001. VR-DIS Research Programme - Design Systems Group. In Vries, B. de, Leeuwen, J.P. van and Achten, H.H. (eds.): *CAAD Futures 2001 - Proceedings of the 9th International Conference on Computer Aided Architectural Design Futures*. Dordrecht: Kluwer Academic Publishers: 795-808.
- Achten, H.H. 2000. Design Case Retrieval by Generic Representations. In Gero, J.S. (ed.): *Artificial Intelligence in Design '00*. Dordrecht: Kluwer Academic Publishers: 373-392.
- Achten, H.H. and J.P. van Leeuwen. 1999. Feature-Based High Level Design Tools - a classification. In C.M. Eastman and G.L.M. Augenbroe (eds.): *Computers in Building: Proceedings of the CAADfutures '99 Conference, Proceedings of the Eighth International Conference on Computer Aided Architectural Design Futures*. Kluwer Academic Publishers, Dordrecht: 275-290.
- Achten, H.H., R.M. Oxman and Bax, M.F.Th. 1998. Typological Knowledge Acquisition through a schema of Generic Representations. In Gero, J.S. and Sudweeks, F. (eds.): *Proceedings of the Artificial Intelligence in Design '98 conference*. Kluwer Academic Publishers, Dordrecht: 191-207.
- Achten, H.H. 1997. Generic Representations - Typical Design without the use of Types. In Junge, R. (ed.): *Proceedings of Computer Aided Architectural Design Futures*. Kluwer Academic Publishers, Dordrecht: 117-133.
- Achten, H.H. 1996. Generic Representations - Intermediate Structures in Computer Aided Architectural Composition. In Asanowicz, A., Jakimowicz, A. (eds.): *Approaches to Computer Aided Architectural Composition*. Technical University of Bialystok, Bialystok: 9-24.

CONFERENCE PROCEEDINGS ARTICLES

- Martens, B. and Achten, H.H. 2008. Do you Moodle? Experiences with a virtual learning environment. In Muylle, M. (ed.) *Proceedings of the 26th International Conference on Education and Research in Computer Aided Architectural Design in Europe*. Antwerpen: Artesis University College of Antwerpen, pp. 153-160.
- Matejovská, D. and Achten, H.H. 2008. Five experiments to elicit CAAD work strategies of students in three levels of education. In Muylle, M. (ed.) *Proceedings of the 26th International Conference on Education and Research in Computer Aided Architectural Design in Europe*. Antwerpen: Artesis University College of Antwerpen, pp. 877-886.
- Matejovská, D. and Achten, H.H. 2007. CAAD Restarted - Some Experiences in Improvement of CAAD Education. In Kieferle, J. and Ehlers, K.(eds.): *Predicting the Future: Proceedings of the 25th International Conference on Education and Research in Computer Aided Architectural Design in Europe*. Frankfurt: Fachhochschule Frankfurt, pp. 409-414.
- Achten, H.H. 2006. Feature Clusters for Online Recognition of Graphic Units in Drawings. In: Bourdakis, V. and Charitos, D.(eds.) *Communicating Spaces - Proceedings of the 24th International eCAADe Conference*. Volos: University of Thessaly: 106-112.
- Achten, H.H., Dorst, K., Stappers, P.J. and de Vries, B. 2005. A Decade of Design Research in the Netherlands. In: Achten, H.H., Dorst, K., Stappers, P.J. and de Vries, B. (eds.) *Design Research in the Netherlands – Proceedings of the Symposium held on 19-20 May 2005*, Bouwstenen 92. Eindhoven: TU/e: i-vii.
- Achten, H.H. and Reymen, I. 2005. Structured Reflection as a Means to Deepen Understanding of CAAD. In: Duarte, J.P., Ducla-Soares, G., Sampaio, A.Z. (eds.): *Digital Design: The Quest for New Paradigms. Proceedings of the 23rd Conference on Education in Computer Aided Architectural Design in Europe*. Lisbon, PT: Instituto Superior Tecnico, pp. 287-294.
- Vries, B. de, Achten, H.H. and van Leeuwen, J.P. 2005. Understanding Design Through Design Support Tools. In: Achten, H.H., Dorst, K., Stappers, P.J. and de Vries, B. (eds.) *Design Research in the Netherlands – Proceedings of the Symposium held on 19-20 May 2005*, Bouwstenen 92. Eindhoven: TU/e: 205-214.
- Achten, H.H. 2004. Lowering The Threshold For Computers In Early Design - Some Advances In Architectural Design. In: *Proceedings of the 4th International Conference on Advanced Engineering Design*, Glasgow 5-8 september 2004. CD ROM.
- Achten, H.H., A.J. Jessurun, and B. de Vries. 2004. The Desk-Cave - A Low-Cost Versatile Virtual Reality Design and Research Setup Between Desktop and CAVE. In Ruediger, B., Tournay, B. and Orbaek, H. (eds.): *Proceedings of the 22nd International eCAADe Conference*, Royal Danish Academy of Fine Arts, Copenhagen:142-147.
- Achten, H.H. and Joosen, G. 2003. The Digital Design Process – Reflections on a Single Design Case. In Dokonal, W. and Hirschberg, U. (eds.) *Proceedings of the 21st International eCAADe Conference*. Graz Technical University, Graz: 269-274.
- Achten, H.H. and J. Jessurun. 2002. An Agent Framework for Recognition of Graphic Units in Drawings. In K. Koszewski and Wrona, S. (eds.): *Proceedings of the 20th International eCAADe Conference*. Warsaw University of Technology, Warsaw: 246-253.
- Achten, H.H. and Bila, J. 2002. Ontologies in the Early Phase of Design: A Multi-Agent Perspective. In Fürbacher, M. and Talácko, J. (eds.): *Proceedings of the Seminar The Development of Methods and Special Means of Integrated (Concurrent) Mechanical Engineering*, Prague, December 5. Czech Technical University in Prague, Prague: 27-29.
- Achten, H.H. 2002. Requirements for Collaborative Design in Architecture. In Timmermans, H. (ed.): *Proceedings of the 6th Design & Decision Support Systems in Architecture & Urban Planning Conference*. Eindhoven: Technische Universiteit Eindhoven: 1-13.
- Achten, H.H., B. de Vries, and J.P. van Leeuwen. 2001. Computational Design Research - The VR-DIS Research Programme. In Achten, H., Vries, B. de and Hennessey, J. (eds.): *Design Research in the Netherlands 2000*. Bouwstenen 63. Eindhoven: Eindhoven University of Technology: 155-163.
- Achten, H.H. and B. de Vries. 2001. Multiple Sketch Users in DDDoolz. In Stellingwerff, M. and Verbeke, J. (eds.): *Accolade – Architecture, Collaboration, Design*. Delft: Delft University Press: 153-162.
- Achten, H.H. 2001. Future Scenario for a Collaborative Design Session. In Stellingwerff, M. and Verbeke, J. (eds.): *Accolade – Architecture, Collaboration, Design*. Delft: Delft University Press: 163-167.
- Klercker, J. Af, Achten, H.H. and Verbeke, J.: 2001. AVOCAAD - A First Step Towards Distance Learning. In Pentilla, H. (ed.): *Proceedings of the 19th International eCAADe Conference*. Helsinki: Helsinki University of Technology: 269-274.

- Achten, H.H. 2001. Normative Positions in Architectural Design - Deriving and Applying Design Methods. In Pentilla, H.(ed.): *Proceedings of the 19th International eCAADe Conference*. Helsinki: Helsinki University of Technology: 263-268.
- Achten, H.H. and J.P. van Leeuwen. 2001. Scheming and Plotting Your Way Into Architectural Complexity. In Nys, K. and Provoost, T. and Verbeke, J. and Verleye, J. (eds.): *AVOCAAD - Third International Conference taking place in Brussels Belgium from 6 till 8 April 2001*. Brussel: Hogeschool voor Wetenschap en Kunst: 20-29.
- Segers, N.M., B. de Vries, H.H. Achten, and H.J.P. Timmermans. 2001. Towards Computer-Aided Support of Associative Reasoning in the Early Phase of Architectural Design. In Gero, Chase and Rosenman (eds.): *CAADRIA2001 - Preprints of the 6th International Conference of the Association for Computer-Aided Architectural Design Research in Asia*. Sydney: Faculty of Architecture: 359-368.
- Segers, N.M., H.H. Achten, and B. de Vries. 2000. A Comparison of Computer-Aided Tools for Architectural Design. In Timmermans, H. (ed.): *Proceedings of the 5th Conference on Design and Decision Support Systems in Architecture and Urban Planning*. Eindhoven: Eindhoven University of Technology: 325-340.
- Verbeke, J., Achten, H., Provoost, T., Verleye, J., Nys, K., Pittioni, G., Asanowicz, A., Jakimowicz, A., af Klercker, J., Zutphen, R. and Turksma, A. 2000. AVOCAAD - A Framework and Website for Teaching CAAD. In Donath, D. (ed.): *Proceedings of the 18th International eCAADe Conference*. Weimar: Bauhaus Universitat Weimar: 101-104.
- Achten, H.H., B. de Vries, and J. Jessurun. 2000. DDDoolz - A Virtual Reality Sketchtool for Early Design. In Tan, B-K. and Tan, M. and Wong, Y-C. (eds.): *Proceedings of the 5th Conference on Computer-Aided Architectural Design Research in Asia*. Singapore: National University of Singapore:451-460.
- Achten, H.H. and J.P. van Leeuwen. 2000. Towards Generic Representations Formalised as Features. In Timmermans, H. (ed.): *Proceedings of the 5th Conference on Design and Decision Support Systems in Architecture and Urban Planning*. Eindhoven University of Technology: 1-14.
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