

Publications and Talks

Refereed Publications in Conference Proceedings

- WILTNER, S., POHL, M., MIKSCH, S., RESTER, M., HINUM, K., POPOW, C., OHMANN, S.: **Exploring Information Visualization – Describing Different Interaction Patterns.** In: *Proceedings of BELIV 2010*. New York, NY: ACM Press, 2010. Forthcoming.
- LANZENBERGER, M., SAMPSON, J., RESTER, M.: **Visualization in Ontology Tools.** In: *Proceedings of International Conference on Complex, Intelligent and Software Intensive Systems (CISIS09)*, IEEE Computer Society. 2009. pp. 705–711. ISBN 978-0-7695-3575-3
- JUDMAIER, P., HUBER, M., POHL, M., RESTER, M., LEOPOLD, D.: **Sustainable Living – A multiplayer educational game based on ECODESIGN.** In: *New Perspectives in Design Education – Proceedings of 10th Intl. Conf. on Engineering and Product Design Education*. 2008, pp. 734–740. ISBN 1-904670-03-02.
- POHL, M., RESTER, M., JUDMAIER, P., LEOPOLD, D.: **Designing Game Based Learning – a Participatory Approach.** In: *Proceedings of ED-MEDIA 2008. World Conference on Educational Multimedia, Hypermedia and Telecommunications*. Chesapeake, VA: Association for the Advancement of Computing in Education (AACE), 2008, pp. 1317–1322. ISBN 1-880094-65-7
- POHL, M., RESTER, M., WILTNER, S.: **Usability and Transferability of a Visualization Methodology for Medical Data.** In: *HCI and Usability for Medicine and Health Care*, Vol. 4799 of Lecture Notes in Computer Science (LNCS), Berlin, Heidelberg: Springer, 2007, pp. 171–184. ISBN 978-3-540-76804-3
- RESTER, M., POHL, M., WILTNER, S., HINUM, K., MIKSCH, S., POPOW, C., OHMANN, S.: **Evaluating an InfoVis Technique Using Insight Reports.** In: *Information Visualisation – Proceedings of the 11th International Conference Information Visualisation (IV 2007)*, Los Alamitos, CA: IEEE Computer Society, 2007, pp. 693–700. ISBN 0-7695-2900-3
- RESTER, M., POHL, M., HINUM, K., MIKSCH, S., POPOW, C., OHMANN, S., BANOVIC, S.: **Methods for the Evaluation of an Interactive InfoVis Tool Supporting Exploratory Reasoning Processes.** In: BERTINI, E., PLAISANT, C., SAN-TUCCI, G. (Eds.): *BELIV '06: Proceedings of the 2006 conference on BEyond time and errors: novel evalUation methods for Information Visualization*. New York, NY: ACM Press, 2006, pp. 32–37. ISBN 1-59593-562-2
- RESTER, M., POHL, M., HINUM, K., MIKSCH, S., OHMANN, S., POPOW, C., BANOVIC, S.: **Assessing the Usability of an Interactive Information Visualization Method as the First Step of a Sustainable Evaluation.** In: HOLZINGER, A., WEIDMANN, K.-H. (Eds.): *Empowering Software Quality: How can Usability Engineering reach these goals?* Vol. 198, Austrian Computer Society, 2005, pp. 31–44. ISBN 3-85403-198-X
- HINUM, K., MIKSCH, S., AIGNER, W., OHMANN, S., POPOW, C., POHL, M., RESTER, M.: **Gravi++: Interactive Information Visualization of Highly Structured Temporal Data.** In: HOLMES, J., PEEK, N. (Eds.): *IDAMAP 2005 – Intelligent Data Analysis in Medicine and Pharmacology – Workshop at the Conference on Artificial Intelligence in Medicine 2005 (AIME '05)*. Aberdeen, UK, 2005, pp. 67–72.
- RESTER, M., POHL, M.: **Ecodesign – an Online University Course for Sustainable Product Design.** In: *Proceedings of the World Conference on Educational Multimedia, Hypermedia and Telecommunications - ED-MEDIA 2005 Montreal, Canada*. Norfolk, VA : Association for the Advancement of Computing in Education (AACE), 2005, pp. 316–323. ISBN 1-880094-56-8

Publications in Conference Proceedings (Extended Abstracts Reviewed)

- FISHER, B., KIELMAN, J., PALEY, W. B., and RESTER, M.: **Visual Analytics**, Symposium on. In: TAATGEN, N. and VAN RIJN, H. (Eds.): *Proceedings of the Thirty-First Annual Conference of the Cognitive Science Society*, Austin, TX: Cognitive Science Society, 2009, pp. 2194–2195. ISBN 978-0-9768318-5-3

RESTER, M., POHL, M., WILTNER, S., HINUM, K., MIKSCH, S., POPOW, C., and OHMANN, S.: **Mixing Evaluation Methods for Assessing the Utility of an Interactive InfoVis Technique**. In JACKO, J. A. (Ed.): *Human-Computer Interaction. Interaction Design and Usability – Proceedings of the 12th International Conference on Human-Computer Interaction (HCII 2007)*, Lecture Notes in Computer Science (LNCS), Vol. 4550, Heidelberg: Springer, 2007, pp. 604–613. ISBN 978-3-540-73104-7

RESTER, M., POHL, M., BANOVIC, S., HINUM, K., MIKSCH, S., OHMANN, S., POPOW, C.: **Zum hohen Stellenwert einer Usability-Untersuchung in der Evaluierung einer interaktiven Informationsvisualisierung**. In: KEMPTER, G., VON HELLBERG, P. (Hrsg.): *Information nutzbar machen – Zusammenfassung der Beiträge zum Usability Day IV*. Lengerich, D: Pabst Science Publishers, 2006, pp. 143–147. ISBN 3-89967-319-0

POHL, M., RESTER, M., JUDMAIER, P., REICHL, F., JERLICH, J., OBERMÜLLER, E., STÖCKELMAYR, K.: **Designing Communication and Cooperation Processes for Adult Learners**. In: JONES, M., KRIEGER, A., REICHL, F., STEINER, A.(Eds.): *Proceedings of the 10th IACEE World Conference on Continuing Engineering Education (WCCEE)*, 2006. 5 pp. ISBN 3-85288-200-1

POHL, M., RESTER, M., JUDMAIER, P., REICHL, F., JERLICH, J., OBERMÜLLER, E., STÖCKELMAYR, K.: **Ecodesign – ein Online-Universitätslehrgang für nachhaltige Produktentwicklung**. In: *Forschung zu Blended Learning: österreichische F & E Projekte und EU-Beteiligungen*, Neue Medien in der Lehre, Bd. 2, Graz, Österreich: Forum Neue Medien, 2005, pp. 181–192. ISBN 3-902520-01-9

POHL, M., RESTER, M.: **Ecodesign: Development and Testing of an E-learning System**. In: AUER, M., AUER, U. (Eds.): *Proceedings of the International Conference Interactive Computer Aided Learning (ICL)*. Poster presentation. Kassel: kassel university press, 2004. ISBN 3-89958-089-3

POHL, M., RESTER, M.: **Development of an E-learning System for Ecological Product Design**. In: ISAÍAS, P., KOMMERS, P., McPHERSON, M. (Eds.): *Proceedings of the IADIS International Conference e-Society 2004*, Vol. 2. Poster presentation. IADIS Press, 2004, pp. 1163. ISBN 972-98947-5-2

Journal Publications

LANZENBERGER, M., SAMPSON, J., RESTER, M.: **Ontology Visualization: Tools and Techniques for Visual Representation of Semi-Structured Meta-Data**. In: *Journal of Universal Computer Science*, 16(7):1036–1054. 2010.

LANZENBERGER, M., SAMPSON, J., RESTER, M., NAUDET, Y., LATOUR, T.: **Visual ontology alignment for knowledge sharing and reuse**. In: *Journal of Knowledge Management*. Emerald Group Publishing. 2008.. ISSN 1367-3270

POHL, M., RESTER, M., STÖCKELMAYR, K., JERLICH, J., JUDMAIER, P., REICHL, F., OBERMÜLLER, E.: **Computer Supported Collaborative Learning and Vocational Training – Adapting the Technology to the Learners' Needs**. In: *Universal Access in the Information Society (UAIS) – Special Issue on Universal Access in Technology Enhanced Learning (UATEL)*, Wien, New York: Springer. 2008. ISSN 1615-5289

HINUM, K., MIKSCH, S., AIGNER, W., OHMANN, S., POPOW, C., POHL, M., RESTER, M. : **Gravi++: Interactive Information Visualization to Explore Highly Structured Temporal Data**. In: *Journal of Universal Computer Science (J.UCS) – Special Issue on Visual Data Mining*, 11 (11) 1792–1805, 2005. ISSN 0948-69X

POHL, M., RESTER, M., JUDMAIER, P., STÖCKELMAYR, K.: **Ecodesign – Design and Evaluation of an E-Learning System for Vocational Training**. In: *elektrotechnik und informationstechnik (e&i)* 122 (12) 473–476, Wien, New York: Springer, 2005. ISSN 0932-383X

Technical Reports

POHL, M., RESTER, M., MIKSCH, S., HINUM, K., SCHMALZL, M., STRITZELBERGER, A., OHMANN, S., POPOW, C.: **Perception as an Exploratory Process: Analysis of Information Visualization Usage**. Presented at: *HCI2008 Culture, Creativity, Interaction. Workshop HCI for Medicine and Health Care (HCI4MED)*. 2008.

RESTER, M.: **Endbericht der Heuristischen Evaluierung von Gravi++ v0.3**. Institut für Gestaltungs- und Wirkungsforschung, TU Wien, (TR-20050922-in2vis), 2005.

RESTER, M.: **Usability Inspection Gravi++ v0.227**. Institut für Gestaltungs- und Wirkungsforschung, TU Wien, (TR-20050324-in2vis), 2005.

POHL, M., RESTER, M.: **Versuchsplanung in2vis.** Institut für Gestaltungs- und Wirkungsforschung, TU Wien, (TR-20050216-in2vis), 2005.

POHL, M., RESTER, M., JUDMAIER, P.: **HOWTO – Make Ecodesign Content. Anleitung für die Produktion von Ecodesign-Inhalten.** Institut für Gestaltungs- und Wirkungsforschung, Institut für Konstruktionswissenschaften und Technische Logistik, TU Wien, (TR-20040302-eco), 2004.

JUDMAIER, P., RESTER, M.: **Ecodesign eLearning User Interface.** Institut für Konstruktionswissenschaften und Technische Logistik, Institut für Gestaltungs- und Wirkungsforschung, TU Wien, (TR-20040210-eco), 2004.

Dissertation

RESTER, M.: **Zur Evaluierung explorativer Informationsvisualisierung.** Institut für Gestaltungs- und Wirkungsforschung, TU Wien, 2007.

Master's Thesis

RESTER, M.: **email – versuche des verstehens.** Institut für Gestaltungs- und Wirkungsforschung, TU Wien, 2003.

Scientific Talks at international Conferences (Speaker(s) Underlined; See Publications for Further Co-Authors)

FISHER, B., KIELMAN, J., PALEY, W. B., AND RESTER, M.: **Visual Analytics**, Symposium on. *Thirty-First Annual Conference of the Cognitive Science Society*. Amsterdam, The Netherlands. 30.07.–01.08.2009

POHL, M., RESTER, M.: **Usability and Transferability of a Visualization Methodology for Medical Data.** *USAB 2007 – 3rd Usability Symposium*. Graz, Austria. 22.11.2007

RESTER, M.: **Mixing Evaluation Methods for Assessing the Utility of an Interactive InfoVis Technique.** *12th International Conference on Human-Computer Interaction (HCII 2007)*. Beijing, China. 23.07.–27.07.2007

RESTER, M., POHL, M.: **Evaluating an InfoVis Technique Using Insight Reports.** *11th International Conference Information Visualisation (IV 2007)*. ETH Zürich, Switzerland. 03.07.–06.07.2007

RESTER, M.: **Methods for the Evaluation of an Interactive InfoVis Tool Supporting Exploratory Reasoning Processes.** *BELIV '06 – conference on BEyond time and errors: novel evaLuation methods for Information Visualization*. Venice, Italy. 22.03.–24.03.2006

RESTER, M.: **Zum hohen Stellenwert einer Usability-Untersuchung in der Evaluierung einer interaktiven Informationsvisualisierung.** *Usability Day IV*. Dornbirn, Österreich. 08.06.–09.06.2006

RESTER, M.: **Designing Communication and Cooperation Processes for Adult Learners.** *10th IACEE World Conference on Continuing Engineering Education (WCCEE)*. Vienna, Austria. 19.04.–21.04.2006

RESTER, M., POHL, M.: **Assessing the Usability of an Interactive Information Visualization Method as the First Step of a Sustainable Evaluation.** *1st Usability Symposium*. Vienna, Austria, 08.11.2005.

RESTER, M.: **Ecodesign: Development and Testing of an E-learning System.** *International Conference Interactive Computer Aided Learning (ICL)*. Villach, Austria, 29.09.–02.10.2004. Poster presentation.

RESTER, M.: **Development of an E-learning System for Ecological Product Design.** *IADIS International Conference e-Society 2004*, Avila, Spain, 15.07.–20.07.2004. Poster presentation.

HOFKIRCHNER, W., LANZENBERGER, M., RESTER, M.: **Die unendliche Geschichte oder Technikfolgen in der Informationsgesellschaft.** *Workshop Computer als Medium "HyperKult 1000₂"*, Universität Lüneburg, Deutschland, 18.07.–21.07.1999.

Scientific Talks

RESTER, M.: **usability im spannungsfeld von design und assessment.** *Invited Talk im Rahmen des VRVis-Forum #40*, Wien, Österreich, 16.11.2006.

RESTER, M., POHL, M., MIKSCH, S.: **in2vis – Interactive Information Visualization. Exploring and Supporting Human Reasoning Processes.** *Presentation of Project Results. Vienna Science and Technology Fund (WWTF)*. Wien, Österreich, 5.12.2007.

Miscellaneous

POHL, M., HOLZINGER, A., RESTER, M.: **M3 - Interdisciplinary Aspects on Digital Media & Education.** *OCG Journal*, 31(5):6–7. Konferenzbericht. Wien, Österreich: Österr. Computer Gesellschaft, 2006. ISSN 1728-743X

POHL, M., HOLZINGER, A., RESTER, M., MOTSCHNIG, R., EBNER, M., AND LEITNER, G.: **Gestaltung von innovativen technologiegestützten Lernsystemen am Beispiel von Web 2.0-Anwendungen – eine Herausforderung für HCI&UE.** *OCG Journal*, 33(4):20–23, Wien, Österreich: Österr. Computer Gesellschaft, 2008. ISSN 1728-743X

Awards

- 2007 Best Paper Award for "Usability and Transferability of a Visualization Methodology for Medical Data". In: Springer Lecture Notes in Computer Science (LNCS), Vol. 4799

Scientific Community Services

- 2010 Program Committee Member: Intl. Workshop on Ontology Alignment and Visualization - OnAV 2010. Krakow, Poland.
- 2009 Scientific Reviewer: IEEE Symposium on Visual Analytics Science and Technology - VAST 2009, Atlantic City, New Jersey, USA.
- 2009 Session Chair: Intl. Workshop on Ontology Alignment and Visualization - OnAV 2009. Fukuoka, Japan.
- 2009 Student Volunteers Coordinator: European Conf. on Computer Supported Cooperative Work - ECSCW 2009. Vienna, Austria
- 2008 Program Committee Member: Intl. Workshop on Ontology Alignment and Visualization - OnAV 2009. Fukuoka, Japan.
- 2008 Session Chair: Current Challenges and Visions in Ontology Matching, Intl. Workshop on Ontology Alignment and Visualization – OnAV '08. Barcelona, Spain.
- 2007 Program Committee Member: Intl. Workshop on Ontology Alignment and Visualization – OnAV '08. Barcelona, Spain.
- 2006 Organization Committee Chair: 2nd Usability Conference, Austrian Computer Society (OCG). Vienna, Austria.
- 2006 Scientific Reviewer: 2nd Usability Conference, Austrian Computer Society (OCG). Vienna, Austria.
- 2006 Scientific Reviewer: Intl. conference on BEyond time and errors: novel evalUation methods for Information Visualization – BELIV '06. Venice, Italy.
- 2006 Session Chair: Design & Visualization, Usability Day IV. Dornbirn, Austria.