

Scientific Community Service & Workshop Organisation

- 2013 **Workshop Co-Chair & Organiser:** 4th European Commission JRC Europ. Crisis Management Laboratory Workshop: **Unmanned Aerial Systems for Rapid Mapping – UASRapidMap 2013**, Geneva, Switzerland. 11-13 September 2013.
Organised conjointly with United Nations UNITAR-UNOSAT. See: <http://www.youtube.com/watch?v=3lU0-KqGqkg>
- 2013 **Workshop Co-Chair & Organiser:** 3rd EC JRC ECML Workshop: **Collaborative Human-Computer Interaction with Big Wall Displays for Situation Monitoring and Reporting – BigWallHCI 2013**, Ispra, Italy. 18-19 April 2013.
Organised conjointly with University of Applied Sciences St. Pölten, Austria.
- 2013 **Workshop Co-Chair:** Intl. Conf. on Information Systems for Crisis Response and Management: **GDACSmobile – Mobile Applications and Social Media in Crisis Management**. Baden-Baden, Germany. 12-16 May 2013.
Organised conjointly with University of Münster, Germany.
- 2012 **Workshop Chair & Organiser:** 2nd EC JRC ECML Workshop:
Map Interaction for Crisis Management – MapInteract 2012, Ispra, Italy. 11-12 October 2012.
- 2012 **Workshop Organiser:** 1st EC JRC ECML Workshop:
Interoperability of Mobile Devices for Crisis Management – MobileInterop 2012, Ispra, Italy. 12-13 March 2012.
- 2014 **Track Co-Chair:** Command and Control Studies - Collaborative Situation Reporting, ISCRAM 2014, Pennsylvania, PA, USA.
- 2013 **Scientific Reviewer:** Journal Computers & Graphics, Elsevier.
- 2013 **Scientific Reviewer:** IEEE Conf. on Visual Analytics Science and Technology – VAST 2013, Atlanta, GA, USA.
- 2012 **Scientific Reviewer:** ACM Conf. on Computer Supported Cooperative Work and Social Computing – CSCW 2013. San Antonio, Texas, USA.
- 2012 **Scientific Reviewer:** ACM Conf. on Designing Interactive Systems – DIS 2012, Newcastle, UK.
- 2012 **Scientific Reviewer:** ACM SIGCHI Conf. on Human Factors in Computing Systems – CHI 2012, Austin, Texas, USA.
- 2012 **Scientific Reviewer:** Asia Pacific Conf. on Computer Human Interaction – APCHI 2012. Matsue, Japan.
- 2011 **Program Committee Member:** Intl. Workshop on Visual Analytics – EuroVA 2011. Bergen, Norway.
- 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, NJ, USA.
- 2009 **Session Chair:** Intl. Workshop on Ontology Alignment and Visualization – OnAV 2009. Fukuoka, Japan.
- 2009 **Student Volunteers Coordinator:** Europ. 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:** Usability Conference, Austrian Computer Society (OCG). Vienna, Austria.
- 2006 **Scientific Reviewer:** Usability Conference, Austrian Computer Society (OCG). Vienna, Austria.
- 2006 **Scientific Reviewer:** Intl. Conf. on Beyond Time and Errors: Novel Evaluation Methods for InfoVis – BELIV '06. Venice, Italy.
- 2006 **Session Chair:** Design & Visualization, Usability Day IV. Dornbirn, Austria.

Publications and Talks

Science and Policy Reports, European Commission Joint Research Centre

RESTER, M., ET AL.: **Unmanned Aerial Systems for Rapid Mapping – UASRapidMap 2013**. Luxembourg: Publications Office of the European Union, 2013. 32 pp. EUR 26451, ISBN 978-92-79-35107-5, ISSN 1831-9424, doi:[10.2788/58375](https://doi.org/10.2788/58375)

RESTER, M., ET AL. (EDS.): **Collaborative Human-Computer Interaction with Big Wall Displays – BigWallHCI 2013**. Luxembourg: Publications Office of the European Union, 2013. 60 pp. EUR 26396, ISBN 978-92-79-34935-5, ISSN 1831-9424, doi:[10.2788/50183](https://doi.org/10.2788/50183)

RESTER, M., ET AL.: **Interoperability of Mobile Devices for Crisis Management**. Luxembourg: Publications Office of the European Union, 2012. 48 pp. EUR 25348 EN, ISBN 978-92-79-25032-3, ISSN 1831-9424, doi:[10.2788/2922](https://doi.org/10.2788/2922)

Publications in Conference Proceedings (Full-Text Double-Blind Peer-Reviewed)

- WILTNER, S., POHL, M., MIKSCH, S., RESTER, M., HINUM, K., POPOW, C., OHMANN, S.: **Exploring Information Visualization – Describing Different Interaction Patterns.** In: *Proceedings of the BELIV'10 Workshop*. New York, NY: ACM Press, 2010. pp. 16–23. ISBN 978-1-4503-0007-0
- POHL, M., RESTER, M., JUDMAIER, P.: **Interactive Game Based Learning: Advantages and Disadvantages.** In: *Proceedings of the 5th International Conference on Universal Access in Human-Computer Interaction (UAHCI'09)*, Vol. 5616 of Lecture Notes in Computer Science (LNCS), Berlin, Heidelberg: Springer, 2009, pp. 92–101. ISBN 978-3-642-02712-3
- LANZENBERGER, M., SAMPSON, J., RESTER, M.: **Visualization in Ontology Tools.** In: *Proceedings of Intl. 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., SANTUCCI, 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 Conf. 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 Peer-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 31st 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, 5 pp., 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, p. 1163. ISBN 972-98947-5-2

Journal Publications (Full-Text Double-Blind Peer-Reviewed)

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. ISSN 0948-695X

LANZENBERGER, M., SAMPSON, J., RESTER, M., NAUDET, Y., LATOUR, T.: **Visual ontology alignment for knowledge sharing and reuse**. In: *Journal of Knowledge Management*, 12(6):102–120. 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)*, 7(4):259–272. 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 – Special Issue on Visual Data Mining*, 11 (11) 1792–1805, 2005. ISSN 0948-695X

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

JUDMAIER, P., RESTER, M.: **Collaborative Situation Report Production on Big Wall Displays: the CoSitRepSys**. In: RESTER ET AL. (EDS.): *Collaborative Human-Computer Interaction with Big Wall Displays - BigWallHCI 2013*. Luxembourg: Publications Office of the European Union, 2013. pp. 40-46. ISBN 978-92-79-34935-5

DE GROEVE, T., RESTER, M. ET AL.: **CrisisWall - A Multi-Device, Multi-System Crisis Management Software**. In: RESTER ET AL. (EDS.): *Collaborative Human-Computer Interaction with Big Wall Displays - BigWallHCI 2013*. Luxembourg: Publications Office of the European Union, 2013. pp. 23-27. ISBN 978-92-79-34935-5

RESTER, M., DE GROEVE, T., ANNUNZIATO, A.: **Workshop Summary: Map Interaction for Crisis Management – 2nd JRC ECML Crisis Technology Workshop**. 20 pp. European Commission, Joint Research Centre, 2012. JRC 77960.

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)

- HELLINGRATH, B. AND RESTER, M.: **GDACSmobile – Mobile Applications and Social Media in Crisis Management.** Intl. Conf. on Information Systems for Crisis Response and Management – ISCRAM 2013, Baden-Baden, Germany. 12.05.–16.05.2013
- 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 InfoVis*. 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)*. Poster presentation. Villach, Austria, 29.09.–02.10.2004
- RESTER, M.: **Development of an E-learning System for Ecological Product Design.** *IADIS International Conference e-Society 2004*. Poster presentation. Avila, Spain, 15.07.–20.07.2004
- HOFKIRCHNER, W., LANZENBERGER, M., RESTER, M.: **Die unendliche Geschichte oder Technikfolgen in der Informationsgesellschaft.** *Workshop Computer als Medium "HyperKult 1000_2"*, 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., 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
- 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

Awards

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