

Stefan Sobernig

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Born March 8, 1981; Klagenfurt; Austria
Austrian citizenship

Current position

since Apr. 2015 *Postdoc researcher* (tenure track),
Institute for Information Systems and New Media,
Univ.Prof. Dr. Gustaf Neumann,
Vienna University of Economics and Business (WU Vienna),
<http://nm.wu.ac.at/>

Areas of specialisation

Model-driven software-language engineering (e.g. [DADA'14 workshop](#)), feature-oriented software development, software patterns (e.g. [MiniPLOP@ECSA'14 workshop](#)), middleware engineering

Technology Enhanced Learning (TEL, eLearning) in the course of two research projects under the 5th and 6th EU Framework Programmes:

2005-2008 *iCamp* (FP6/IST), <http://www.icamp.eu/>, technical coordinator for Work Package 3, *Information Systems Interoperability*

2004/2005 *ELENA* (FP5/IST), <http://www.elena-project.org/>, technical project contributor

Education

2009 *Doctor rerum socialium oeconomicarumque*, Vienna University of Economics and Business Administration

2004-2008 Doctoral studies, Vienna University of Economics and Business Administration

2004 *Magister rerum socialium oeconomicarumque* (Master equivalent) in the discipline

International Business Administration, Vienna University of Economics and Business Administration

- 2002-2003 Study visit at the University Paris XII -- Val de Marne, Paris, France
- 1999-2004 Magister studies (Master equivalent) in the discipline International Business Administration, Vienna University of Economics and Business Administration Specialisations in Information Systems (*Wirtschaftsinformatik*), Development Economics, and International Management
- 1999 University-Entrance Diploma (*Matura*) with distinction, Bundesgymnasium Klagenfurt-Viktring

Professional experiences

- Apr. 2015 - present Postdoc researcher (tenure track), Institute for Information Systems and New Media, WU Vienna
- Jan. 2009 - Mar. 2015 Postdoc researcher (non-tenure-track), Institute for Information Systems and New Media, WU Vienna
- Oct. 2008 - Dec. 2008 Scientific project assistant, *iCamp* (FP6/IST), <http://www.icamp.eu/>, Institute for Information Systems and New Media, WU Vienna
- Oct. 2004 - Oct. 2008 Research assistant, Institute for Information Systems and New Media, WU Vienna
- 2003-2004 IT-trainer for various course formats on behalf of the Austrian public employment services, i.e. the Arbeitsmarktservice (AMS) and the *bfi* vocational training institute.
- 2000-2002 Senior Developer for Unisys Austria plc; Focus areas: Development of a decision-support and controlling system (a pilot project on .NET in cooperation with Microsoft Austria); application development based on Hyper-G/Hyperwave Information Server; mobile application development (WAP/WML)
- Sept./ Oct. 1999 Member of staff; [scope1: information vs. meaning](#) – A conference on information systems and the future of knowledge

Publications & talks

Refereed articles in journals

1. Sobernig, Stefan, Bernhard Hoisl, and Mark Strembeck. "Extracting reusable design decisions for UML-based domain-specific languages: A multi-method study". In: *Journal of Systems and Software* 113 (Mar. 2016). ISI JCR: 1.2 (5-yrs avg.), Scimago SJR (5-yrs avg.): 1.1, WU journal rank (2009): A, pp. 140–172. DOI: [10.1016/j.jss.2015.11.037](https://doi.org/10.1016/j.jss.2015.11.037).
2. Sobernig, Stefan, Sven Apel, Sergiy S. Kolesnikov, and Norbert Siegmund. "Quantifying structural attributes of system decompositions in 28 feature-oriented software product lines: An exploratory study". In: *Empirical Software Engineering* (Oct. 2014). Online Preprint: Oct 29th, 2014. ISI JCR: 1.7 (5-yrs avg.), Scimago SJR (5-yrs avg.): 1.84. DOI: [10.1007/s10664-014-9336-6](https://doi.org/10.1007/s10664-014-9336-6).

3. Hoisl, Bernhard, Stefan Sobernig, and Mark Strembeck. "Modeling and enforcing secure object flows in process-driven SOAs: an integrated model-driven approach". In: *Software and Systems Modeling* 13.2 (May 2014). ISI JCR: 1.2 (5-yrs avg.), Scimago SJR (5-yrs avg.): 1.8, pp. 513–548. DOI: [10.1007/s10270-012-0263-y](https://doi.org/10.1007/s10270-012-0263-y).
4. Neumann, Gustaf, Stefan Sobernig, and Michael Aram. "Evolutionary Business Information Systems: Perspectives and challenges of an emerging class of information systems". In: *Business & Information Systems Engineering* 6.1 (Feb. 2014), pp. 33–38. DOI: [10.1007/s12599-013-0305-1](https://doi.org/10.1007/s12599-013-0305-1).
5. Assche, F. van, E. Duval, D. Massart, D. Olmedilla, B. Simon, S. Sobernig, S. Ternier, and F. Wild. "Spinning Interoperable Applications for Teaching & Learning using the Simple Query Interface". In: *Journal of Educational Technology & Society* 9.2 (Apr. 2006), pp. 51–67. URL: http://www.ifets.info/journals/9_2/5.pdf.

Refereed proceedings

Conferences

1. Sobernig, Stefan and Uwe Zdun. "Distilling Architectural Design Decisions and their Relationships using Frequent Item-Sets". In: *Proc. of the 13th Working IEEE/IFIP Conference on Software Architecture (WICSA 2016)*. Acceptance rate (full papers): 20.1% (30/149). IEEE Computer Society, Apr. 2016, pp. 61–70. DOI: [10.1109/WICSA.2016.9](https://doi.org/10.1109/WICSA.2016.9).
2. Haendler, Thorsten, Stefan Sobernig, and Mark Strembeck. "Deriving Tailored UML Interaction Models from Scenario-Based Runtime Tests". In: *Post-Conference Proc. of the 10th International Conference on Software Engineering and Applications (ICSOFT-EA 2015)*. Vol. 586. CCIS. Revised Selected Papers. Springer, Feb. 2016, pp. 326–348. DOI: [10.1007/978-3-319-30142-6_18](https://doi.org/10.1007/978-3-319-30142-6_18).
3. Hoisl, Bernhard and Stefan Sobernig. "Open-Source Development Tools for Domain-Specific Modeling: Results from a Systematic Literature Review". In: *49th Hawaii International Conference on System Sciences (HICSS 2016)*. IEEE Computer Society, Jan. 2016. In press.
4. Haendler, Thorsten, Stefan Sobernig, and Mark Strembeck. "An Approach for the Semi-automated Derivation of UML Interaction Models from Scenario-based Runtime Tests". In: *Proc. of the 10th International Conference on Software Engineering and Applications (ICSOFT-EA 2015)*. Acceptance rate (full papers): 11% (10/92). SciTePress, 2015, pp. 229–240. DOI: [10.5220/0005519302290240](https://doi.org/10.5220/0005519302290240).
5. Hoisl, Bernhard, Stefan Sobernig, and Mark Strembeck. "Comparing Three Notations for Defining Scenario-based Model Tests: A Controlled Experiment". In: *Proc. of the 9th International Conference on the Quality of Information and Communications Technology (QUATIC'14)*. Acceptance rate (full papers, main track): 17% (12/72). IEEE Computer Society, 2014, pp. 95–104. DOI: [10.1109/QUATIC.2014.19](https://doi.org/10.1109/QUATIC.2014.19).

6. Hoisl, Bernhard, Stefan Sobernig, and Mark Strembeck. "Natural-Language Scenario Descriptions for Testing Core Language Models of Domain-specific Languages". In: *Proc. of the 2nd International Conference on Model-Driven Engineering and Software Development (Modelsward'14)*. SciTePress, 2014, pp. 356–367. DOI: [10.5220/0004713703560367](https://doi.org/10.5220/0004713703560367).
7. Hoisl, Bernhard, Stefan Sobernig, and Mark Strembeck. "Higher-order Rewriting of Model-to-Text Templates for Integrating Domain-specific Modeling Languages". In: *Proc. of the 1st International Conference on Model-Driven Engineering and Software Development (Modelsward'13)*. Acceptance rate (full papers): 11% (8/76). SciTePress, 2013, pp. 49–61. DOI: [10.5220/0004321100490061](https://doi.org/10.5220/0004321100490061).
8. Schefer-Wenzl, Sigrid, Stefan Sobernig, and Mark Strembeck. "Evaluating a UML-based Modeling Framework for Process-related Security Properties: A Qualitative Multi-Method Study". In: *Proc. of the 21st European Conference on Information Systems (ECIS'13)*. ECIS 2013 Completed Research Paper 134. Acceptance rate (full papers): 30% (247/813). AIS Electronic Library, 2013. URL: http://aisel.aisnet.org/ecis2013_cr/134.
9. Sobernig, Stefan, Bernhard Hoisl, and Mark Strembeck. "Requirements-driven Testing of Domain-specific Core Language Models using Scenarios". In: *Proc. of the 13th International Conference on Quality Software (QSIC'13)*. Acceptance rate (full papers): 24% (19/78). IEEE, 2013, pp. 163–172. DOI: [10.1109/QSIC.2013.56](https://doi.org/10.1109/QSIC.2013.56).
10. Sobernig, Stefan, Mark Strembeck, and Andreas Beck. "Developing a Domain-Specific Language for Scheduling in the European Energy Sector". In: *Proc. of the 6th International Language on Software Language Engineering (SLE'13)*. Vol. 8225. LNCS. Acceptance rate (full papers): 33% (17/51). Springer, 2013, pp. 19–35. DOI: [10.1007/978-3-319-02654-1_2](https://doi.org/10.1007/978-3-319-02654-1_2).
11. Hoisl, Bernhard, Mark Strembeck, and Stefan Sobernig. "Towards a Systematic Integration of MOF/UML-based Domain-specific Modeling Languages". In: *Proceedings of the 16th IASTED International Conference Software Engineering and Application (SEA'12)*. ACTA Press, Nov. 2012, pp. 337–344. DOI: [10.2316/P.2012.790-045](https://doi.org/10.2316/P.2012.790-045).
12. Lytra, Ioanna, Stefan Sobernig, and Uwe Zdun. "Architectural Decision Making for Service-Based Platform Integration: A Qualitative Multi-Method Study". In: *Proc. of the Joint 10th Working IEEE/IFIP Conference on Software Architecture & 6th European Conference on Software Architecture (WICSA'12, ECSA'12)*. Acceptance rate (full papers): 20,8% (20/96). IEEE, Aug. 2012, pp. 111–120. DOI: [10.1109/WICSA-ECSA.2012.19](https://doi.org/10.1109/WICSA-ECSA.2012.19). URL: <http://nm.wu-wien.ac.at/research/publications/b954.pdf>.
13. Lytra, Ioanna, Stefan Sobernig, Huy Tran, and Uwe Zdun. "A Pattern Language for Service-based Platform Integration and Adaptation". In: *Proceedings of 17th Annual European Conference on Pattern Languages of Programming (EuroPLOP 2012)*. Ed. by Andreas Fiesser and Christian Kohls. Hillside, Mar. 2012. URL: <http://nm.wu-wien.ac.at/research/publications/b956.pdf>.

14. Sobernig, Stefan, Patrick Gaubatz, Mark Strembeck, and Uwe Zdun. "Comparing Complexity of API Designs: An Exploratory Experiment on DSL-based Framework Integration". In: *Proc. of the 10th International Conference on Generative Programming and Component Engineering (GPCE'11)*. Acceptance rate (full papers): 33% (18/55). ACM, Oct. 2011, pp. 157–166. DOI: [10.1145/2047862.2047890](https://doi.org/10.1145/2047862.2047890). URL: <http://nm.wu-wien.ac.at/research/publications/b880.pdf>.
15. Oberortner, Ernst, Stefan Sobernig, Uwe Zdun, and Schahram Dustdar. "Monitoring of Performance-related QoS Properties in Service-oriented Systems: A Pattern-based Architectural Decision Model". In: *Proceedings of the 16th European Conference on Pattern Languages of Programs (EuroPLoP)*. Ed. by Paris Avgeriou and Andreas Fiesser. ACM, July 2011, pp. D3/1–D3/38. URL: <http://nm.wu-wien.ac.at/research/publications/b957.pdf>.
16. Sobernig, Stefan and Uwe Zdun. "Evaluating Java Runtime Reflection for Implementing Cross-Language Method Invocations". In: *Proceedings of the 8th International Conference on the Principles and Practice of Programming in Java (PPPJ 2010)*. Ed. by Andreas Krall and Hanspeter Mössenböck. Acceptance rate (full papers): 38% (55/145). ACM, Sept. 2010, pp. 139–147. DOI: [10.1145/1852761.1852781](https://doi.org/10.1145/1852761.1852781). URL: <http://nm.wu-wien.ac.at/research/publications/b842.pdf>.
17. Sobernig, Stefan and Uwe Zdun. "Inversion-of-Control Layer". In: *Proc. of 15th Annual European Conference on Pattern Languages of Programming (EuroPLoP'10)*. ACM, July 2010. DOI: [10.1145/2328909.2328935](https://doi.org/10.1145/2328909.2328935). URL: <http://nm.wu-wien.ac.at/research/publications/b847.pdf>.
18. Sobernig, Stefan. "Feature Interaction Networks". In: *Proceedings of the 25th Symposium On Applied Computing (SAC 2010), Software Engineering Track*. Acceptance rate (full papers): 33% (2369/7126). ACM, Mar. 2010, pp. 2360–2364. DOI: [10.1145/1774088.1774574](https://doi.org/10.1145/1774088.1774574). URL: <http://nm.wu-wien.ac.at/research/publications/b838.pdf>.
19. Sobernig, Stefan and Uwe Zdun. "Invocation Assembly Lines: Patterns of Invocation and Message Processing in Object Remoting Middleware". In: *Proceedings of 14th Annual European Conference on Pattern Languages of Programming (EuroPLoP 2009)*. Ed. by Allan Kelly and Michael Weiss. Irsee, Germany, July 8–12, 2009: CEUR-WS.org (Vol-566), Mar. 2009. URL: http://ceur-ws.org/Vol-566/f3_invocation_assembly_line.pdf.
20. Wild, Fridolin and Stefan Sobernig. "Learning Tools in Higher Education: Products, Characteristics, Procurement". In: *2nd European Conference on Technology Enhanced Learning, CEUR-WS Proceedings, Vol. 280*. Ed. by Martin Wolpers, Ralf Klamma, and Erik Duval. Crete, Greece: Sun SITE Central Europe, Sept. 2007. URL: <http://ftp.informatik.rwth-aachen.de/Publications/CEUR-WS/Vol-280/p12.pdf>.
21. Simon, B. et al. "Building Blocks for a Smart Space for Learning". In: *Proceedings of the 6th IEEE International Conference on Advanced Learning Technologies*. Ed. by R. Koper and Kinshuk. IEEE, July 2006, pp. 309–313. DOI: [10.1109/ICALT.2006.1652431](https://doi.org/10.1109/ICALT.2006.1652431). URL: http://www.l3s.de/~olmedilla/pub/2006/2006_ICALT_Elena.pdf.

Workshops

1. Hoisl, Bernhard and Stefan Sobernig. “Consistency Rules for UML-based Domain-specific Language Models: A Literature Review”. In: *Joint Proceedings of the 8th International Workshop on Model-based Architecting of Cyber-physical and Embedded Systems and 1st International Workshop on UML Consistency Rules (ACES-MB 2015 & WUCOR 2015)*. CEUR Worksh. Proc. 1508. CEUR-WS.org, 2015, pp. 29–36. URL: <http://ceur-ws.org/Vol-1508/paper6.pdf>.
2. Hoisl, Bernhard and Stefan Sobernig. “Towards Benchmarking Evolution Support in Model-to-Text Transformation Systems”. In: *Proceedings of the 4th Workshop on the Analysis of Model Transformations (AMT@MoDELS 2015)*. Vol. 1500. CEUR Worksh. Proc. CEUR-WS.org, 2015, pp. 16–25. URL: <http://ceur-ws.org/Vol-1500/paper3.pdf>.
3. Langer, Philip, Stefan Sobernig, and Gustaf Neumann. “Towards a Foundational Framework for Developing and Testing Inter-organizational Business Processes”. In: *Proc. of the International Workshop on Modeling Inter-organizational Processes (MinoPro’14)*. Accepted for publication. Mar. 2014.
4. Adelsberger, Stephan, Stefan Sobernig, and Gustaf Neumann. “Towards assessing the complexity of object migration in dynamic, feature-oriented software product lines”. In: *Proc. 8th International Workshop on Variability Modelling of Software-intensive Systems (VaMoS’14)*. Jan. 2014, 17:1–17:8. DOI: [10.1145/2556624.2556645](https://doi.org/10.1145/2556624.2556645).
5. Kolesnikov, Sergiy S., Sven Apel, Norbert Siegmund, Stefan Sobernig, Christian Kästner, and Semah Senkaya. “Predicting quality attributes of software product lines using software and network measures and sampling”. In: *Proc. of the 7th Int. Workshop on Variability Modelling of Software-intensive Systems (VaMoS’13)*. ACM, 2013, 6:1–6:5. DOI: [10.1145/2430502.2430511](https://doi.org/10.1145/2430502.2430511).
6. Sobernig, Stefan, Gustaf Neumann, and Stephan Adelsberger. “Supporting Multiple Feature Binding Strategies in NX”. In: *Proc. of the 4th International Workshop on Feature-Oriented Software Development (FOSD’12)*. ACM, 2012, pp. 45–53. DOI: [10.1145/2377816.2377823](https://doi.org/10.1145/2377816.2377823). URL: <http://nm.wu-wien.ac.at/research/publications/b935.pdf>.
7. Hoisl, Bernhard, Stefan Sobernig, Sigrid Schefer-Wenzl, Mark Strembeck, and Anne Baumgraß. “Design Decisions for UML- and MOF-based Domain-specific Language Models: Some Lessons Learned”. In: *Proc. of the 2nd Workshop on Process-based approaches for Model-Driven Engineering (PMDE’12), Joint Proceedings of the 8th European Conference on Modelling Foundations and Applications (ECMFA’12)*. Technical University of Denmark (DTU), July 2012, pp. 303–314. URL: <http://wi.wu.ac.at/home/mark/publications/pmde12.pdf>.
8. Hoisl, Bernhard and Stefan Sobernig. “Integrity and Confidentiality Annotations for Service Interfaces in SoaML Models”. In: *Proceedings of the International Workshop on Security Aspects of Process-aware Information Systems (SAPAIS 2011) & of the Sixth International Conference on Availability, Reliability and Security (ARES 2011)*. IEEE, 2011, pp. 673–679. DOI: [10.1109/ARES.2011.105](https://doi.org/10.1109/ARES.2011.105). URL: <http://nm.wu-wien.ac.at/research/publications/b906.pdf>.

9. Wild, Fridolin, Steinn E. Sigurdarson, Stefan Sobernig, Christina Stahl, Ahmet Soyly, Vahur Rebas, Dariusz Górka, Anna Danielewska, and Antonio Tapiador. “An Interoperability Infrastructure for Distributed Feed Networks”. In: *Proceedings of the 1st International Workshop on Collaborative Open Environments for Project-Centered Learning*. Ed. by Stefano Ceri, Wolfgang Nejdl, Jan van Bruggen, and Frans Van Assche. Crete, Greece: CEUR WS, Volume 309, Sept. 2007. URL: <http://ftp.informatik.rwth-aachen.de/Publications/CEUR-WS/Vol-309/paper01.pdf>.
10. Aguirre, S. et al. “Corner Stones of Semantic Interoperability Demonstrated in a Smart Space for Learning”. In: *Proceedings of the 2nd European Semantic Web Conference - Poster and Software Demos*. Ed. by Stefan Decker and Heiner Stuckenschmidt. Heraklion, Greece, May 2005. URL: http://www.wu-wien.ac.at/usr/wi/bsimon/publikationen/eswc2005_elena_demo-v2005-04-20_final.pdf.
11. Miklós, Z. and S. Sobernig. “Query Translation between RDF and XML – A Case Study in the Educational Domain”. In: *WWW Workshop on Interoperability of Web-Based Educational - CEUR-WS 143*. Ed. by D. Olmedilla, N. Saito, and B. Simon. Chiba, Japan: Technical University of Aachen (RWTH), May 2005, pp. 27–35. URL: <http://sunsite.informatik.rwth-aachen.de/Publications/CEUR-WS/Vol-143/paper04.pdf>.

Miscellaneous

1. Harrison, Neil B., Uwe van Heesch, Stefan Sobernig, Peter Sommerlad, Martin Filipczyk, Alexander Fülleborn, Angelika Musil, and Juergen Musil. “Software architecture patterns: Reflection and Advances (Summary of the MiniPLOP Writers’ Workshop at ECSA’14)”. In: *ACM SIGSOFT Software Engineering Notes* 40.1 (2015). Post-workshop report, pp. 30–34. DOI: [10.1145/2693208.2693218](https://doi.org/10.1145/2693208.2693218).
2. Hoisl, Bernhard, Stefan Sobernig, Sigrid Schefer-Wenzl, Mark Strembeck, and Anne Baumgrass. *A Catalog of Reusable Design Decisions for Developing UML/MOF-based Domain-specific Modeling Languages*. Technical Report 2014/03. Vienna: Institute for Information Systems, New Media, WU Vienna University of Economics, and Business, 2014. URL: <http://epub.wu.ac.at/4312/>.
3. Sobernig, Stefan, Sven Apel, Sergiy Kolesnikov, and Norbert Siegmund. *Quantifying Structural Attributes of System Decompositions in 28 Feature-oriented Software Product Lines: An Exploratory Study*. Technical Report 2014/01. Vienna: Institute for Information Systems, New Media, WU Vienna University of Economics, and Business, 2014. URL: <http://epub.wu.ac.at/4328/>.
4. Sobernig, Stefan, Bernhard Hoisl, and Mark Strembeck. *Protocol for a Systematic Literature Review on Design Decisions for UML-based DSMLs*. Technical Report 2014/02. Vienna: Institute for Information Systems, New Media, WU Vienna University of Economics, and Business, 2014. URL: <http://epub.wu.ac.at/4311/>.
5. Sobernig, Stefan and Mark Strembeck. “DSL-based Architecting and DSL-based Architectures”. In: *Proc. of the ECSA 2014 Workshops & Tool Demos Track, European Conference on Software Architecture (ECSA’14)*. ACM, 2014. DOI: [10.1145/2642803.2642818](https://doi.org/10.1145/2642803.2642818).

6. Breu, Ruth et al. "Towards Living Inter-Organizational Processes". In: *Proc. of the 15th IEEE International Conference on Business Informatics (CBI'13)*. IEEE, 2013.
7. Hoisl, Bernhard, Stefan Sobernig, Sigrid Schefer-Wenzl, Mark Strembeck, and Anne Baumgrass. *A Catalog of Reusable Design Decisions for Developing UML/MOF-based Domain-Specific Modeling Languages*. Technical Report 2012/01. Vienna: Institute for Information Systems, New Media, WU Vienna University of Economics, and Business, 2012. URL: <http://epub.wu.ac.at/3578/>.
8. Lytra, Ioanna, Stefan Sobernig, and Uwe Zdun. *Architectural Decision Making for Service-Based Platform Integration: A Qualitative Multi-Method Study*. Technical Report. Vienna: Software Architecture Institute, University of Vienna, June 2012. URL: <http://eprints.cs.univie.ac.at/3478/>.
9. Neumann, Gustaf and Stefan Sobernig. "An Overview of the Next Scripting Toolkit". In: *Proceedings of the Eighteenth Annual Tcl/Tk Conference*. Ed. by Andreas Kupries and Ron Fox. Manassas, Virginia: Tcl Association Publications, Oct. 2011, pp. 183–216. URL: <http://nm.wu-wien.ac.at/research/publications/b885.pdf>.
10. Neumann, Gustaf and Stefan Sobernig. "XOTcl 2.0 – A Ten-Year Retrospective and Outlook". In: *Proceedings of the Sixteenth Annual Tcl/Tk Conference*. Ed. by Clif Flynt and Ron Fox. Portland, Oregon: Tcl Association Publications, Oct. 2009, pp. 179–204. URL: <http://nm.wu-wien.ac.at/research/publications/b806.pdf>.
11. Sobernig, Stefan, Fridolin Wild, Bernd Simon, and Barbara Kieslinger. "Adoption of Tools for Technology-Enhanced Learning in Austrian Higher Education". In: *Tagungsband der 13. fnm-austria Tagung*. 2007.
12. Sobernig, Stefan and Fridolin Wild. *Interoperability Framework Draft for the Distributed Open Virtual Learning Environment*. Deliverable 3.1. iCamp Consortium, 2006. URL: http://www.icamp.eu/wp-content/uploads/2007/05/d31___icamp___interoperability-framework-draft.pdf.
13. Sobernig, Stefan and Fridolin Wild. *Prototype of a Repository Network*. Deliverable 3.2. iCamp Consortium, 2006. URL: http://www.icamp.eu/wp-content/uploads/2007/05/d32___icamp___repository-network-prototype.pdf.

Talks

1. Sobernig, Stefan. *Assessing DSLs in industry: An empirical puzzle*. Invited talk given at the AVL List GmbH Researcher Networking Day, Graz, Austria. Mar. 2016.
2. Sobernig, Stefan, Sven Apel, and Sergiy Kolnesikov. *Can you have it all? On feature decomposition and modular structure in 28 software product lines*. Invited talk given at FOSD Meeting 2013, Dagstuhl. Feb. 2013.
3. Sobernig, Stefan, Sven Apel, and Sergiy Kolnesikov. *Analysing Structural Dependencies in Software Product Lines – Using Distribution and Network Statistics*. Invited talk given at FOSD Meeting 2012, Software Systems Engineering Institute, Technical University of Braunschweig. Mar. 2012. URL: <http://nm.wu-wien.ac.at/research/publications/b958.pdf>.

4. Sobernig, Stefan. *Feature Interaction Networks – A Gentle Introduction to Analysing Feature Interactions using Polymetric Network Analysis*. Invited talk given at the Chair for Programming, Department of Informatics and Mathematics, University of Passau. Sept. 2010. URL: <http://nm.wu-wien.ac.at/research/publications/b959.pdf>.
5. Neumann, Gustaf and Stefan Sobernig. *Learning XoWiki: A Tutorial to the XoWiki Toolkit*. Tutorial given at the International OpenACS and DotLRN Conference: International Conference and Workshops on Community Based Environments, Antigua, Guatemala. Feb. 2008. URL: <http://nm.wu-wien.ac.at/research/publications/b717.pdf>.
6. Neumann, Gustaf and Stefan Sobernig. *XOTcl for OpenACS: An Introduction to XOTcl and the basic infrastructure of xotcl-core*. Tutorial given at the International OpenACS and DotLRN Conference: International Conference and Workshops on Community Based Environments, Antigua, Guatemala. Feb. 2008. URL: <http://nm.wu-wien.ac.at/research/publications/b719.pdf>.
7. Sobernig, Stefan. *A Gentle Introduction to XOTcl SOAP*. Tutorial given at the 6th International OpenACS and DotLRN Conference: International Conference and Workshops on Community Based Environments, Antigua, Guatemala. Feb. 2008. URL: <http://nm.wu-wien.ac.at/research/publications/b725.pdf>.
8. Sobernig, Stefan. *Supporting Brokerage in Web Application Frameworks*. Talk at the 6th International OpenACS and DotLRN Conference: International Conference and Workshops on Community Based Environments, Antigua, Guatemala. Feb. 2008. URL: <http://nm.wu-wien.ac.at/research/publications/b724.pdf>.
9. Sobernig, Stefan. *xorb / xosoap - Remoting for OACS / .LRN*. Tutorial given at the International OpenACS and .LRN Fall Conference, Boston, 2006. Nov. 2006. URL: <http://nm.wu-wien.ac.at/research/publications/b670.pdf>.
10. Sobernig, Stefan and Fridolin Wild. *Interoperability in Technology Enhanced Learning*. Tutorial given at the ProLearn Summer School, Istanbul, Turkey, 2005. Sept. 2005. URL: <http://www.educanext.org/ubp/PUSH/search@srchDetailsLR?lrID=lr-wuw-wild-1126513506924>.

Qualification theses

1. Sobernig, Stefan. *Exploring Feature Variability in Object Remoting Middleware*. Doctoral thesis. Vienna: Institute of Information Systems, New Media, Vienna University of Economics, and Business, Feb. 2009.
2. Sobernig, Stefan. *Regulation & Wissen – Die Wirkung Neuer Informations- und Kommunikationstechnologien in Lateinamerika*. Diploma thesis. Abteilung für Außenhandel und Entwicklungsplanung, Wirtschaftsuniversität Wien, Nov. 2004.

Awards

2014 FFG Innovationsscheck (Project "MyGain", AIM Software GesmbH, €5 000)

- 2014 WU Board of Trustees Grant for Habilitation Candidates (€17 800)
- 2012/13 Global Colloquium on Participant-Centered Learning, Harvard Business School
- 2005 ProLearn Summer School, Istanbul, Turkey

Teaching

- 2013-present *Distributed Systems*, lecture course, Master program "Information Systems", Institute for Information Systems and New Media
- 2013-present *Information Systems Development*, lecture course, Master program "Information Systems", Institute for Information Systems and New Media
- 2012-present *Dynamic Programming Techniques*, lecture and laboratory course, Specialization "IS Engineering", Master program "Information Systems", Institute for Information Systems and New Media
- 2009-present *Computer Networks*, lecture, Institute for Information Systems and New Media
- 2015 *Laboratory Software Architectures*, laboratory course, Bachelor program "Computer Science and Business Informatics", Faculty of Computer Science, University of Vienna
- 2007-2008 *Social Software Systems*, proseminar, Institute for Information Systems and New Media in cooperation with IBM Research Almaden, Vienna University of Economics and Business Administration
- 2007 *Social Network Analysis for Collaboration Environments*, lecture, Adaptive Dynamic Online Educational Systems (aDeNu) Group, Universidad Nacional de Educación a Distancia, Madrid, Spain
- 2006-20011 *Advanced Object-Oriented Programming*, Advanced Course I in the specialisation program *New Media*, laboratory course, Institute for Information Systems and New Media, Vienna University of Economics and Business Administration
- 2005-2008 *Seminar New Media*, Institute for Information Systems and New Media, Vienna University of Economics and Business Administration
- 2005-2006 *Computer-Mediated Cooperative Work (CMCW)*, Advanced Course IV in the specialisation program *New Media*, proseminar, Institute for Information Systems and New Media, Vienna University of Economics and Business Administration

Supervised qualification theses

Master theses

1. Tahin, Daniel. *Design, Implementation, and Evaluation of an NX/Tcl code generator for Eclipse/Accleo*. Master thesis. Institute for Information Systems & New Media, Vienna University of Economics & Business, Sept. 2014.
2. Beck, Andreas. *Development of a domain specific language for scheduling in the energy sector*. Master thesis. Institute for Information Systems & New Media, Vienna University of Economics & Business, Aug. 2013.
3. Pfistershammer, Sebastian. *Testen von ASTRA/Webtransactions*. Master thesis. Institute for Information Systems & New Media, Vienna University of Economics & Business, 2012.
4. Gaubatz, Patrick. *Entwicklung von Embedded-DSLs für XML-basierte Sprachen am Beispiel von SAML*. Master thesis. Institute for Information Systems & New Media, Vienna University of Economics & Business, 2010.

Bachelor theses

1. Mad, Lukas. *DSLs for web-application development: An empirical evaluation using replication*. Bachelor thesis. Institute for Information Systems & New Media, Vienna University of Economics & Business, Sept. 2014.
2. Maurer, Michael. *Approaches to mobile application development – A systematic review*. Bachelor thesis. Institute for Information Systems & New Media, Vienna University of Economics & Business, 2013.
3. Scholz, Nicole. *Mixin-based inheritance – A language comparison*. Bachelor thesis. Institute for Information Systems & New Media, Vienna University of Economics & Business, 2010.

Services to the profession

2016 Reviewer, [Journal of Systems and Software \(JSS\)](#)

Reviewer, [Information and Software Technology \(IST\)](#)

Expert Reviewer, [31st IEEE/ACM International Conference on Automated Software Engineering \(ASE'16\)](#)

2015 Reviewer, [Business & Information Systems Engineering](#)

Shepherd, [22th Conference on Pattern Languages of Programs](#)

Reviewer, [LNCS Transactions on Pattern Languages of Programming](#)

Reviewer, [The Computer Journal](#)

- Reviewer, [Information and Software Technology \(IST\)](#)
- PC member, [2. Workshop zur Ereignismodellierung und -verarbeitung im Geschäftsprozessmanagement](#)
- 2014 Focus-group participant, [FP7/ICT Integrated Project ARTIST](#)
- Reviewer, [IEEE Software](#)
- Workshop organizer, [International Workshop on DSL Architecting and DSL-based Architectures \(DADA'14\)](#)
- Workshop organizer, [MiniPLOP@ECSA'14](#)
- Reviewer, [Information and Software Technology \(IST\)](#)
- Reviewer, [The Computer Journal](#)
- Reviewer, [29th IEEE/ACM International Conference on Automated Software Engineering \(ASE'14\)](#)
- PC member, [6th International Workshop on Feature-Oriented Software Development](#)
- PC member, [3rd International Conference on Model-Driven Engineering and Software Development \(Modelsward'15\)](#)
- Shepherd, [19th European Conference on Pattern Languages of Programs](#)
- PC member, [International Workshop on Modeling Inter-organizational Processes \(MinoPro'14\)](#)
- PC member, [1. Workshop zur Ereignismodellierung und -verarbeitung im Geschäftsprozessmanagement](#)
- 2013 PC member, [2nd International Conference on Model-Driven Engineering and Software Development \(Modelsward'14\)](#)
- Reviewer, [IEEE Software](#)
- PC member, [5th International Workshop on Feature-Oriented Software Development](#)
- Shepherd, [18th European Conference on Pattern Languages of Programs](#)
- Reviewer, [9th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering](#)

- Reviewer, [21st European Conference on Information Systems](#)
- 2012 Reviewer, [Information and Software Technology](#)
- Reviewer, [34th International Conference on Software Engineering \(Informal Tool Demonstrations track\)](#)
- Reviewer, [2012 Aspect-Oriented Software Development Conference](#)
- Shepherd, [19th Conference on Pattern Languages of Programs](#)
- Shepherd, [17th European Conference on Pattern Languages of Programs](#)
- PC member, [4th International Workshop on Feature-Oriented Software Development](#)
- Reviewer, [11. Internationale Tagung Wirtschaftsinformatik](#)
- 2011 PC member, [3rd International Workshop on Feature-Oriented Software Development](#)
- PC member, [10th International Conference on Software Composition](#)
- Reviewer, [25th European Conference on Object-Oriented Programming](#)
- Reviewer, [10. Internationale Tagung Wirtschaftsinformatik](#)
- 2010-
present Reviewer, [LNCS Transactions on Pattern Languages of Programming](#)
- Shepherd, [European Conference on Pattern Languages of Programs](#)
- 2010 Reviewer, [1st Workshop on Engineering SOA and the Web](#)
- 2007 Workshop organizer, [5th International Conference and Workshops on Community Based Environments, Vienna, April, 2007](#)
- 2006 Workshop/ session chair, [Session 73 Metadata for Learning Resources, 6th IEEE International Conference on Advanced Learning Technologies, Kerkrade, Netherlands, 2006](#)

Language proficiency

German: native

English: excellent speaking, writing, reading

French: excellent speaking, writing, reading

<http://nm.wu.ac.at/sobernig> -- last updated: Mar 2016