

# Stefan Oppl – Curriculum Vitae

Stefan Oppl is a full professor for technology-enhanced learning at Danube-University Krems, Austria. He graduated in *computer science* in 2004 at the Kepler University of Linz and earned an MBA degree in *applied knowledge management* in 2007. His master thesis was awarded a *grant for excellent Austrian students by the minister of research and education*. He earned his PhD in computer science from the technical University of Vienna in 2010. His thesis was *nominated for the GI Dissertationspreis*, an annual award for the best PhD thesis in computer science in German-speaking countries and received the *VÖWA-Wissenschaftspreis* for high practical and industrial relevance of a PhD thesis. The technical result of his PhD thesis has been further developed to a commercial product and was offered on the business process management market for nearly a decade since 2013. In 2016, he was granted an *Erwin-Schrödinger-Fellowship* by the Austrian Science Fund. In 2017, he was awarded with a Short-List-Nomination for the *Austrian National Prize Ars Docendi* for excellent academic teaching in recognition of his development and deployment of innovative teaching formats.

Since 2010, he has been a postdoc and assistant professor at the Johannes Kepler University of Linz with research visits to the Technical University in Darmstadt and the Ruhr-Universität in Bochum (Germany). From 2011 to 2015, he has been the *principal investigator and coordinating project manager* of the FP7 PEOPLE IAPP project IANES and the LLL LdV ToI project FARAW. Aside this, he has also two times organized the international ERASMUS intensive programme SURGEOM, a summer school teaching programme on socio-technical support of organizational work in 2013 and 2014. He has been responsible for the overall curriculum design and has also been involved in teaching. From May 2016 to February 2017, he has been a visiting researcher at Radboud University Nijmegen, The Netherlands, as an Erwin-Schrödinger-Fellow funded by the Austrian Science Fund. He defended his habilitation thesis in September 2017 and was subsequently promoted to the tenured position of an *associate professor* in business information systems at Johannes Kepler University. Since February 2018, he was contributing to establish a center of technology-enhanced learning at Johannes Kepler University. In September 2019, he joined the University for Continuing Education Krems as a full professor for technology-enhanced learning and head of the Department for Continuing Education Research and Educational Technology. Since 2021, he acts as the Dean of the faculty for Education, Arts and Architecture. He is currently involved in several collaboration projects to address challenges created in higher education by digital and societal transformation processes, among them *CodeAbility*, *DigiFit4All* and *MathSkillTest*.

Stefan Oppl has published more than 80 peer-reviewed articles in journals and at international conferences (Google Scholar metrics as of July 2022: 727 citations, h-index: 15) and has co-authored books on human-centered process digitization (German version published with Springer-Vieweg, extended English version published with Springer) and digital work design in organizational and educational settings (published with Palgrave Macmillan). He is active as a reviewer for conferences and journals in HCI, information systems and educational technologies, has co-organized the workshop on Models and their Role in Cooperation at eCSCW 2013, was the organization chair of S-BPM ONE 2012 and the workshop chair of S-BPM ONE 2018.

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## General Information

- Name: Stefan Oppl
- Date of Birth: August 10th, 1980
- Nationality: Austria
- Personal website: <http://www.oppl.info>



## Main Areas of Research

- Instruments for Supporting Collaborative Learning Processes
- Information Systems for Organizational Learning Support
- Supporting the Handling of Student Heterogeneity in Large-Scale Teaching Settings
- Methodological and Technical Support for Explicit Articulation Work in Organizations
- Scaffolding Abstraction and Algorithmic Thinking in Work Process Modeling

## Positions held in Academia

### Current Positions

- since 10.2021: Dean, Faculty of Education, Arts and Architecture, Danube-University Krems, Austria
- since 02.2020: Head of Department, Department of Continuing Education Research and Educational Technologies, Danube-University Krems, Austria
- since 09.2019: Full Professor for Technology-enhanced Learning, Danube-University Krems, Austria, Department of Continuing Education Research and Educational Technologies
- since 2007: Lecturer, University of Applied Sciences Upper Austria, School of Management

### Former Positions

- 11.2017 – 08.2019: Associate Professor, Johannes Kepler University of Linz, Austria, Department of Business Information Systems - Communications Engineering
- 02.2012 – 10.2017: Assistant Professor, Johannes Kepler University of Linz, Austria, Department of Business Information Systems - Communications Engineering
- 05.2016 - 02.2017: Erwin-Schrödinger-Fellow, Radboud University Nijmegen, The Netherlands
- 09.2011 - 01.2012: Researcher, Metasonic AG, Germany (4 months Marie-Curie fellowship via IAPP-project IANES)
- 2005 - 2011: Staff researcher and teacher, Johannes Kepler University of Linz, Department of Business Information Systems - Communications Engineering
- 2003 - 2005: Research project member, Johannes Kepler University of Linz, Department for Pervasive Computing

## Education

### Academic Education

- 2017: Venia Docendi in business informatics, Johannes Kepler University of Linz
- 2006 - 2010: PhD in computer science, Technical University of Vienna, passed with distinction

- 2005 - 2007: post-graduate MBA in applied knowledge management, Johannes Kepler University of Linz, passed with distinction
- 2000 - 2004: MSc in computer science, Johannes Kepler University of Linz, passed with distinction

### Further Professional Education

- 2006 - 2007: Hochschuldidaktischer Lehrgang (didactics for higher education), Johannes Kepler University of Linz
- 2002: Lehrgang „Gruppen führen und leiten“ (leadership in expert organizations), Fa. OE-263
- 1994 - 1999: Technical high school diploma in electronics and computer science, HTL Steyr, passed with distinction

### Scientific Publications

The following list contains all scientific publications (co-)authored by Stefan Oppl. They are categorized in journal articles, conference papers, workshop contributions, and book chapters. In addition, his theses and editorships are listed at the end of this document. All publications are sorted chronologically in each category with the most recent on top.

### Journal Articles

- J1) Blaschitz, E., Mayr, E., & Oppl, S. (2022). Too low motivation, too high authority? Digital media support for co-curation in local cultural heritage communities. *Multimodal Technologies and Interaction*, 6(5), 1–15. <https://doi.org/10.3390/mti6050033>
- J2) Dobiasch, M., Oppl, S., Stöckl, M., & Baca, A. (2022). Direct Mobile Coaching as a Paradigm for the Creation of Mobile Feedback Systems. *Applied Sciences*, 1–27.
- J3) Keser-Aschenberger, F., Radinger, G., Brachtl, S., Ipser, C., & Oppl, S. (2022). Physical Home Learning Environments for Digitally Supported Learning in Academic Continuing Education during COVID-19 Pandemic. *Learning Environments Research*.
- J4) Oppl, S., Stary, C., & Oppl, S. (2022). On the Ambiguous Nature of Theory in Educational Design-based Research – Reflecting and Structuring from an IS Perspective. *Educational Design Research*, 6(1), 1–31.
- J5) Dobiasch, M., Fellner, M., & Oppl, S. (2022). Digitale Kompetenzen in den Curricula und im Bildungsstandard für „Bewegung und Sport“ in Österreich. *Leipziger Sportwissenschaftliche Beiträge*, 63.
- J6) Oppl, S., Fuchs, W., & Dobiasch, M. (2021). Zur inhaltlichen Schwerpunktsetzung im Rahmen der verbindlichen Übung „Digitale Grundbildung“ an österreichischen Mittelschulen. *R&E-SOURCE*, 16, 1–16. <https://doi.org/10.53349/resource.2021.i16.a990>
- J7) Zak, K., & Oppl, S. (2021). Der Einsatz von Virtual-Reality Lernszenarien für Softskills-Trainings. *HMD - Praxis Der Wirtschaftsinformatik*. <https://doi.org/10.1365/s40702-021-00784-2>
- J8) Dobiasch, M., & Oppl, S. (2020). Modellabstraktionen und deren Wirkung im Sport – Ein Ausbildungsproblem? *Wirtschaftsinformatik & Management*. <https://doi.org/10.1365/s35764-020-00282-y>

- J9) Oppl, S., Schuster, P., & Prinz, T. (2019). A Method for Formative Multi-Context Boundary Profiling. *Journal of Interaction Science*, 7, 1–31. <http://doi.org/10.24982/jois.1812019.001>
- J10) Mühlburger, M., Oppl, S., & Sary, C. (2017). KMS re-contextualization – Recognizing learnings from OMIS research. *VINE Journal of Information and Knowledge Management Systems*, 47(3), 302-318. <https://doi.org/10.1108/VJIKMS-05-2016-0021>
- J11) Oppl, S. (2017). Adopting Principles of Freinet Pedagogy in Higher Education – A Report on the Design and Evaluation of a Didactical Experiment. *Momentum Quarterly*, 6(4).
- J12) Oppl, S., Reisinger, F., Eckmaier, A., & Helm, C. (2017). A flexible online platform for computerized adaptive testing. *International Journal of Educational Technology in Higher Education*, 14(1), 1–20. <http://doi.org/10.1186/s41239-017-0039-0>
- J13) Oppl, S. (2017). Evaluation of collaborative modeling processes for knowledge articulation and alignment. *Information Systems and E-Business Management*, 15(3), 717–749. <http://doi.org/10.1007/s10257-016-0324-9>
- J14) Oppl, S., Sary, C., & Vogl, S. (2017). Recognition of paper-based conceptual models captured under uncontrolled conditions. *IEEE Transactions on Human-Machine-Systems*, 47(2), 206-220. <http://doi.org/10.1109/THMS.2016.2611943>
- J15) Oppl, S. (2017). Supporting the collaborative construction of a shared understanding about work with a guided conceptual modeling technique. *Group Decision and Negotiation*, 26(2), 247-283. <http://doi.org/10.1007/s10726-016-9485-7>
- J16) Oppl, S., & Alexopoulou, N. (2016). Linking natural modeling to techno-centric modeling for the active involvement of process participants in business process design. *International Journal of Information System Modeling and Design*, 7(2).
- J17) Oppl, S. (2016). Articulation of work process models for organizational alignment and informed information system design. *Information & Management*, 53(5), 591–608.
- J18) Oppl, S. (2016). Selbstgesteuerte Reflexion und Gestaltung von Arbeitsprozessen. *Momentum Quarterly*, 5(4).
- J19) Sary, C., Neubauer, M., Oppl, S., & Weichhart, G. (2015). Stakeholder-centered Ontologies for Educational Designs. *Ontology of Designing*.
- J20) Oppl, S., & Sary, C. (2014). Facilitating shared understanding of work situations using a tangible tabletop interface. *Behaviour & Information Technology*, 33(6), 619–635.
- J21) Sary, C., & Oppl, S. (2007). Konsistente Navigation in stationären und mobilen web-basierten Lehr- & Lern-Umgebungen. *Z. f. eLearning*, 2(4).

#### Reviewed Conference Papers

- C1) Grundschober, I., & Oppl, S. (2022). Constructive Alignment in der agilen Lehrveranstaltungsentwicklung. In J. Buchner, C. F. Freisleben-Teutscher, I. Neiske, & K. Morisse (Eds.), *Inverted Classroom and beyond 2021* (pp. 90–97). Forum neue Medien in der Lehre Austria.

- C2) Aral, N. & Oppl, S. (2021). A Community Approach to Item Calibration for Testing Math-Skills in Engineering. *Proceedings of the 24th International Conference on Interactive Collaborative Learning*. Springer.
- C3) Dobiasch, M., & Oppl, S. (2021). Usage Patterns of an ePortfolio-Platform - On the Potential Conflict between Short- and Long-term Usage Scenarios of ePortfolios. *International Conference on Information Resources Management 2021 (Conf-IRM 2021)*.
- C4) Aistleithner, A., & Oppl, S. (2021). Polychronicity & Boundary Management - An exploratory study. *Proceedings of ECCE 2021*. ACM Press.
- C5) Aral, N. & Oppl, S. (2020). Towards comprehensive technology-supported formative assessment in math education - A literature review. *Proc. of the 10th Annual ERME Topic Conference on Mathematics Education in the Digital Age (MEDA 2020)* (pp. 411–412).
- C6) Oppl, S. (2020). Erstellung und Evolution offener Bildungsressourcen in und mit verteilten Versionsverwaltungssystemen. *Proc. of Inverted Classroom and beyond 2020*.
- C7) Oppl, S., Schachermayr, S., & Drews-Milalkovits, P. (2019). Zur Förderung erfahrungsbasierenden kollaborativen Lernens von NEET-Jugendlichen durch die Produktion von Erklär-Videos. *Proc. of Momentum Kongress 2019*.
- C8) Oppl, S., Gutmann, A., Lazic, I., & Mühlburger, F. (2019). Examining Audience Retention in Educational Videos - Potential and Method. *Proc. of the 18th International Conference on Information Technology Based Higher Education and Training (ITHET 2019)*. IEEE.
- C9) Hoppenbrouwers, S., Wilmont, I., van Loon, D., van der Geest, T., & Oppl, S. (2018). Measuring Process Experience: A Collaborative Modelling Instrument for Determining the Impact of a New Law on Public Service Experience. *Proc. of S-BPM ONE 2018*. ACM Press.
- C10) Hochleitner, F., & Oppl, S. (2018). Validation of Business Process Models through Interactively Enacted Simulation. *Proc. of S-BPM ONE 2018*. ACM Press.
- C11) Oppl, S. (2018). Which concepts do inexperienced modelers use to model work? – An exploratory study. *Proceedings of MKWI 2018*.
- C12) Oppl, S., Milas, A., Waid, M. (2017). Vielfältiges Lernen in universitären Großlehrveranstaltungen - Effekte von Flipped Classroom Formaten auf Partizipationsmöglichkeiten von Studierenden mit unterschiedlichen Bedürfnissen. *Proc. of Momentum Kongress 2017*.
- C13) Graf, D., Oppl, S., & Eckmaier, A. (2017). Towards BPM Skill Assessment using Computerized Adaptive Testing. *Proceedings of S-BPM ONE 2017*. ACM Press <http://doi.org/10.1145/3040565.3040567>
- C14) Oppl, S. (2017). Business Process Elaboration through Virtual Enactment. ACM Press *Proceedings of S-BPM ONE 2017*. <http://doi.org/10.1145/3040565.3040568>
- C15) Oppl, S., & Hoppenbrouwers, S. (2016). Scaffolding Stakeholder-Centric Enterprise Model Articulation. In *The Practice of Enterprise Modeling* (LNBIP vol. 267, pp. 133–147). [http://doi.org/10.1007/978-3-319-48393-1\\_10](http://doi.org/10.1007/978-3-319-48393-1_10)
- C16) Oppl, S. (2016). Towards scaffolding collaborative articulation and alignment of mental models. *Proc. of ICKM 2016, Procedia Computer Science, 99*, 124–145. Elsevier. <http://doi.org/10.1016/j.procs.2016.09.106>

- C17) Oppl, S. (2016). Adopting Concepts of Freinet Pedagogy in Higher Education – A Report on the Design and Evolution of a Didactical Experiment. Proc. of Momentum Kongress 2016.
- C18) Stary, C., Lerchner, H., Krenn, F., Neubauer, M., Oppl, S., & Wachholder, D. (2015). Towards a Stakeholder-Centric Design Language for Open Systems – Learning from Organizational Learning. Proceedings of ECCE 2015.
- C19) Oppl, S. (2015). Articulation of subject-oriented business process models. Proceedings of the 7th International Conference on Subject-Oriented Business Process Management, 1–11, ACM Press.
- C20) Oppl, S. (2015). Arbeitende im Spannungsfeld IT-unterstützter Arbeitsprozesse. Proc. of Momentum Kongress 2015.
- C21) Wachholder, D., & Oppl, S. (2014). Interactive Coupling of Process Models: A Distributed Tabletop Approach to Collaborative Modeling. ECCE '14: Proceedings of the ECCE 2014, 1–8, ACM Press.
- C22) Oppl, S., & Rothschädl, T. (2014). Separation of Concerns in Model Elicitation – Role-Based Actor-Driven Business Process Modeling. In Proceedings of S-BPM ONE 2014, Springer International Publishing.
- C23) Alexopoulou, N., Stary, C., & Oppl, S. (2014). Delineating Worker-Centered Organizational Work: Blending BPMS and Social Software Features. Proceedings of Conference Towards Organization . Advancements in Enterprise Social Networks.
- C24) Neubauer, M., Oppl, S., Stary, C., & Weichhart, G. (2013). Facilitating Knowledge Transfer in IANES - A Transactive Memory Approach. In Innovation through Knowledge Transfer 2012 (Smart Innovation, Systems and Technologies, Vol. 18, pp. 39–50). Springer.
- C25) Wachholder, D., & Oppl, S. (2012). Stakeholder-Driven Collaborative Modeling of Subject-Oriented Business Processes. In S-BPM ONE - Scientific Research (pp. 145–162). Springer.
- C26) Oppl, S. (2011). Subject-oriented Elicitation of distributed Business-Process Knowledge. Proc. S-BPM ONE 2011, 213(213), 16–33. Springer.
- C27) Oppl, S., & Stary, C. (2011). Effects of a Tabletop Interface on the Co-Construction of Concept Maps. Proceedings of INTERACT 2011.
- C28) Oppl, S., & Stary, C. (2011). Towards Informed Metaphor Selection for TUIs. Proceedings of ACM EICS 2011, 213(Chapter 2), 16–33. ACM Press.
- C29) Neubauer, M., Stary, C., & Oppl, S. (2011). Polymorph Navigation Utilizing Domain-Specific Metadata: Experienced Benefits for E-Learners. Proceedings of ECCE 2011.
- C30) Stary, C., Neubauer, M., & Oppl, S. (2010). Interactive Management of Change. Proceedings of the International Conference on Knowledge-Based Economy and Global Management.
- C31) Neubauer, M., Stary, C., & Oppl, S. (2009). Towards Topic Map-based e-Learning Environments. Proceedings of TMRA 2009.
- C32) Neubauer, M., Oppl, S., & Stary, C. (2009). Towards Intuitive Modeling of Business Processes: Prospects for Flow- and Natural-Language-Orientation. Proceedings of Tamodia 2009, LNCS 5963(Chapter 2), 15–27.
- C33) Oppl, S., & Stary, C. (2009). Tabletop Concept Mapping. Proceedings ACM TEI '09, 275, ACM press.

- C34) Oppl, S. (2008). Graspable Work Modeling. Proceedings of Mensch Und Computer 2008, Oldenburg Verlag.
- C35) Oppl, S., & Peherstorfer, P. (2007). Human Intervention in cross-organizational Process Development. Proceedings of ICKM 2007, (6), 317–326.
- C36) Furtmüller, F. G., & Oppl, S. (2007). A Tuple-Space based Middleware for Collaborative Tangible Interfaces. Proc. of WETICE '07, 400–405.
- C37) Oppl, S., Stary, C., & Auinger, A. (2006). Towards Tangible Work Modeling. Proceedings of Mensch Und Computer 2006, 400–405.
- C38) Weichhart, G., Stary, C., & Oppl, S. (2006). Modelling of Complex Supply Networks. Proceedings of WETICE '06, 265–268.
- C39) Oppl, S. (2006). Towards Intuitive Work Modeling with a Tangible Collaboration Interface Approach. Proceedings of WETICE '06, 400–405.
- C40) Oppl, S., & Stary, C. (2005). Towards Human-Centered Design of Diagrammatic Representation Schemes. Proceedings of TAMODIA 2005, 55–62.
- C41) Ferscha, A., Holzmann, C., & Oppl, S. (2005). Team awareness in personalised learning environments. Mobilelearning Anytimeeverywhere.
- C42) Ferscha, A., Holzmann, C., & Oppl, S. (2004). Context awareness for group interaction support. Proceedings of MobiWAC 2004, 88–97.

#### Reviewed Workshop Contributions

- W1) Schuster, P., & Oppl, S. (2018). A Method for Multi-Context Boundary Profiling for Individual Communication Management. *Workshop-Proceedings of S-BPM ONE 2018*. ceur-ws vol. 2074.
- W2) Oppl, S., & Hoppenbrouwers, S. (2017). Introducing Fundamental Concepts of Process Modeling through Participatory Simulation. Proceedings of Advanced Information Systems Engineering Workshops (LNBIP vol. 286), 110-122. [https://doi.org/10.1007/978-3-319-60048-2\\_11](https://doi.org/10.1007/978-3-319-60048-2_11)
- W3) Kannengiesser, U., & Oppl, S. (2015). Business Processes to Touch: Engaging Domain Experts in Process Modelling. Demo-Proceedings of BPM 2015.
- W4) Oppl, S. (2013). Towards Role-distributed Collaborative Business Process Elicitation. In A. Nolte, M. Prilla, P. Rittgen, & S. Oppl, Proceedings of the Workshop on Models and their Role in Collaboration (pp. 33–40). ceur-ws.
- W5) Oppl, S. (2009). Konsistente Verwendung von Metaphern als Erfolgskriterium für komplexe Tangible User Interfaces. Workshop-Proceedings Der 9. Fachübergreifenden Konferenz Mensch Und Computer 2009.
- W6) Oppl, S. (2008). Begreifbare Modellierung von Arbeit. Workshop-Proceedings Der 8. Fachübergreifenden Konferenz Mensch Und Computer 2008.
- W7) Oppl, S. (2007). Spielen Sie noch? - Bausteine im Unternehmenskontext. Workshop-Proceedings Mensch Und Computer 2007.
- W8) Stary, C., Stary, E., & Oppl, S. (2006). Inclusive Design of Ambient Knowledge Transfer. Proceedings of 9th ERCIM Workshop “User Interfaces for All,” (4397).
- W9) Oppl, S., & Weichhart, G. (2005). Requirements for Collaborative Process Design. Workshop-Proceedings Mensch Und Computer 2005, 197, 15–22.

#### Other Conference and Workshop Contributions

- O1) Dobiasch, M., Aral, N., & Oppl, S. (2021). A gap in the education of future sport scientists? *Journal of Science & Cycling*, 1–3.



- O2) Oppl, S. (2019). Wirkung von Incentives zur aktiven Partizipation in universitären LVA ohne Anwesenheitspflicht. *Proc. of the 8. Tag der Lehre der FH St. Pölten*.
- O3) Oppl, S. (2019). Sektorenübergreifendes Lernen durch learner-generated Content am Beispiel der Unterstützung bei VWAs. *Proc. of Hochschule digital.innovativ - #digiPH 2*.
- O4) Oppl, S. (2018). Zum Umgang mit Heterogenität in gestaltungsorientierten Lehrveranstaltungen durch Flipped-Classroom-Formate und Design-Thinking-Projekte. In J. Weißenböck, W. Gruber, C. Freisleben-Teutscher, & J. Haag (Eds.), (pp. 27–40). *Proceedings of 7. Tag der Lehre an der FH St. Pölten*.
- O5) Oppl, S. (2018). Social Video Learning im Inverted Classroom. *Proceedings of digiPH Conference 2018*. Forum Neue Medien Austria.
- O6) Oppl, S. (2009). Using a Tangible Tabletop Interface to facilitate Articulation Work. *Proceedings of the STELLAR Alpine Rendez-Vous Workshop on Tabletops for Education and Training*.
- O7) Oppl, S. (2009). Unterstützung expliziter Articulation Work - Statement of Interest for Participation in the Session on disruptive or seamless HCI in eLearning. *Proceedings of IATEL (Interdisciplinary Approaches to Technology-Enhanced Learning)*.
- O8) Oppl, S. (2009). A Tabletop Interface to support Concept Mapping. *Proceedings of EduMedia 2009*.

### Books

- B1) Fleischmann, A., Oppl, S., Schmidt, W., Stary, C. (2020). Contextual Process Digitization: Changing Perspectives – Design Thinking – Value-Led Design. Springer
- B2) Oppl, S., Stary, C. (2019). Designing Digital Work: Concepts and Methods for Human-Centred Digitization. Palgrave Macmillan.
- B3) Fleischmann, A., Oppl, S., Schmidt, W., Stary, C. (2018). Ganzheitliche Digitalisierung von Prozessen: Perspektivenwechsel – Design Thinking – Wertegeleitete Interaktion. Springer Vieweg.

### Book Chapters

- Ch1) Fellner, M., Pausits, A., Pfeffer, T., & Oppl, S. (2022). Herausforderungen und Chancen bei der Gestaltung von Anerkennungs- und Validierungsverfahren an Hochschulen. In M. Fellner, A. Pausits, T. Pfeffer, & S. Oppl (Eds.), *Validierung und Anerkennung non-formal und informell erworbener Kompetenzen an Hochschulen* (pp. 9–22). Waxmann.
- Ch2) Rechberger, S., & Oppl, S. (2021). Selecting processes for RPA - A study of relevant key process indicators in the finance industry. In C. Czarnecki & P. Fettke (Eds.), *Robotic Process Automation*. De Gruyter.
- Ch3) Oppl, S. (2017). Arbeitsprozesse artikulieren - auf dem Weg zu einem gemeinsamen Verständnis. In P. Wimmer (Ed.), *Wissen verändert*.
- Ch4) Nolte, A., Prilla, M., Rittgen, P., & Oppl, S. (2013). MoRoCo 2013: Models and their Role in Collaboration. In M. Korn, T. Colombino, & M. Lewkowicz (Eds.), *ECSCW Adjunct Proceedings* (pp. 90–97). Dept. of Computer Science Aarhus University.

- Ch5) Oppl, S. (2012). Unterstützung expliziter Articulation Work - Interaktive Externalisierung und Abstimmung mentaler Modelle. In S. Hölldober et al., *Ausgezeichnete Informatikdissertationen 2010* (Vol. 11, pp. 231–240). Gesellschaft für Informatik (GI).
- Ch6) Oppl, S., & Sary, C. (2012). Be-greifbare Gestaltung von eLearning-Szenarien. In B. Robben & H. Schelhowe, *Be-greifbare Interaktionen*. transcript Verlag.
- Ch7) Oppl, S., Steiner, C. M., & Albert, D. (2011). Supporting Self-regulated Learning with Tabletop Concept Mapping. In *Interdisciplinary approaches to technology-enhanced learning*. Waxmann Verlag.
- Ch8) Oppl, S. (2010). Unterstützung expliziter Articulation Work durch Externalisierung von Arbeitswissen. In M. F. Peschl & H. Risku, *Kognition und Technologie im kooperativen Lernen* (pp. 33–56). Vandenhoeck & Ruprecht.
- Ch9) Oppl, S., Peherstorfer, P., & Sary, C. (2010). The User Perspective. In N. Mehandjiev & P. Grefen, *Advanced Information and Knowledge Processing* (pp. 133–150). London: Springer.
- Ch10) Fessl, K., Carpenter, M., Oppl, S., Peherstorfer, P., Bittner, W., Owrak, A., et al. (2010). Automotive Industry Case Studies. In *Advanced Information and Knowledge Processing* (pp. 171–198). London: Springer.
- Ch11) Weichhart, G., Oppl, S., & Waefler, T. (2005). Flexible and responsive cross-organisational Interoperability. In M. Taisch & K. D. Thoben, *Advanced Manufacturing - an ICT and Systems Perspective* (pp. 158–170). Network of Excellence on Intelligent Manufacturing Systems.

### Published Studies & Reports

- S1) Pausits, A., Oppl, S., Schön, S., Fellner, M., Campbell, D., & Dobiasch, M. (2021). *Distance Learning an österreichischen Universitäten und Hochschulen im SS 2020 und WS 2020/21*. Bundesministerium für Bildung, Wissenschaft und Forschung

### Theses

- T1) Oppl, S. (2017). *Facilitating organizational alignment through people-centric articulation of knowledge about work*. Habilitation Thesis. University of Linz.
- T2) Oppl, S. (2010). *Unterstützung expliziter Articulation Work -- Interaktive Externalisierung und Abstimmung mentaler Modelle*. PhD Thesis. Technical University of Vienna.
- T3) Oppl, S. (2007). *Flexibility of Content for Organisational Learning - A Topic Map Approach*. Master Thesis. University of Linz.
- T4) Oppl, S. (2004). *Context-aware Group-Interaction*. Master Thesis. University of Linz.

### Editorship

- E1) Fellner, M., Pausits, A., Pfeffer, T. & Oppl, S. (2022). *Validierung und Anerkennung non-formal und informell erworbener Kompetenzen an Hochschulen (Studienreihe Hochschulforschung Österreich)*. Münster: Waxmann.
- E2) Oppl, S. (2018). *Proceedings of the Workshops and Work-in-Progress Contributions at S-BPM ONE 2018*. (S. Oppl). ceur-ws vol. 2074.

- E3) Nolte, A., Prilla, M., Rittgen, P., & Oppl, S. (2013). Proceedings of the Workshop on Models and their Role in Collaboration. (A. Nolte, M. Prilla, P. Rittgen, & S. Oppl). ceur-ws vol. 1037.
- E4) Oppl, S., & Fleischmann, A. (2012). S-BPM ONE - Education and Industrial Developments. Proceedings of the 4th International Conference on S-BPM. (S. Oppl & A. Fleischmann) (CCIS Vol. 284). Springer.

### Academic Prizes and Awards

- Best Paper Award at the 9<sup>th</sup> International Conference on Subject-Oriented Business Process Management 2017 for contribution “Business Process Elaboration through Virtual Enactment”
- Ars Docendi 2017 Shortlist Nomination for excellent academic teaching in category “Combining digital teaching and learning elements with traditional course formats” for “Advancing Flipped Classroom in the lecture Communications Engineering”
- Erwin-Schrödinger-Fellowship for project proposal “Scaffolds for Work Modeling” granted in 2016
- Best Paper Award at the 6<sup>th</sup> International Conference on Subject-Oriented Business Process Management 2014 for contribution “Separation of Concerns in Model Elicitation – Role-Based Actor-Driven Business Process Modeling”
- VÖWA-Wissenschaftspreis 2011, prize for high practical and industrial relevance of PhD-thesis
- Nominee to GI Dissertationspreis 2010, annual award for best PhD-thesis in computer science in German-speaking countries
- Würdigungspreis der Bundesministerin für Bildung, Wissenschaft und Kunst 2005, Austrian federal prize for outstanding graduation, awarded to two students per university and year
- 3 scholarships for excellent performance in undergraduate studies (2002-2004)

### Scientific Community Services

- Track-Co-Chair for Track “Digital Information Systems in the Public Sector, Telecommunications, Transport and Education” at AIS Conf-IRM 2021
- Track-Co-Chair for Track “Automation, Collaboration and Intelligent technologies” at ECCE 2021
- Co-Organizer of symposium „Validierung und Anerkennung non-formal und informell erworbener Kompetenzen an Hochschulen“ targeting Austrian Higher Education Institutions, 2021.
- Workshop Chair at S-BPM One 2018
- Co-Organizer of Aeolion-Workshop at IS4IS Summit Vienna 2015
- Organizer of Aeolion-Workshop at ECCE 2014
- Co-Organizer MoRoCo-Workshop at ECSCW 2013
- Organization Chair at S-BPM One 2012
- Member of Organization Committee at Pervasive 2003
- Member of Programme Committees: INTERACT 2013, A-BPM 2014-19, S-BPM ONE 2017-19, EMMSAD 2014-15
- Reviewer for international conferences (selection): ITS 2010-12, INTERACT 2011-15, ECIS 2012, EICS 2012, IUI 2012, NordiCHI 2012-14, S-BPM One 2012-20, InKT 2013,

MoRoCo 2013, MobileHCI 2014, EMMSAD 2014-15, ICIS 2015, BITA 2016-18, CBI 2016-22, MKWI 2017, ECIS 2018, BPM 2018, WI 2019, ECIS 2019, Conf-IRM 2021

- Reviewer for journals: European Journal of Information Systems, Springer Personal and Ubiquitous Computing, IEEE Transactions on Human-Machine Systems, Emerald VINE Journal of Information and Knowledge Management Systems, Springer International Journal of Educational Technology in Higher Education, SAGE Journal of Educational Computing Research

## Memberships

- OCG – Austrian Computer Society
- GI – Gesellschaft für Informatik – Fachgruppe CSCW
- ÖFEB – Österreichische Gesellschaft für Forschung und Entwicklung im Bildungswesen
- EACE – European Association of Cognitive Ergonomics

## Faculty Services

- Member of Selection Board for Professorship “Computational Perception”, Johannes Kepler University of Linz
  - Student Member during 2003/2004
- Deputy Head of Department at Institut für Wirtschaftsinformatik – Communications Engineering, Johannes Kepler University of Linz
  - Position held 2011-2019
- Deputy Head of Department at Zentrum für Wissensmanagement, Johannes Kepler University of Linz
  - Position held 2011-2019
- Member of the Curriculum Commission for Business Informatics (Wirtschaftsinformatik), Johannes Kepler University of Linz
  - Full Member from 2013-2016
  - Alternate Member from 2010-2013 and since 2016
- Member of the Curriculum Commission “Universitätslehrgänge”, Johannes Kepler University of Linz
  - Alternate Member from 2013-2019
- Member of Selection Board for Professorship “Supply Chain Management”, University of Applied Sciences Upper Austria
  - 2015
- Member of the Faculty Assembly “Sozial- und Wirtschaftswissenschaften”, Johannes Kepler University of Linz
  - Alternate Member from 2016-2019
- Member of preparation group for re-accreditation of bachelor- and master-curricula Wirtschaftsinformatik
  - 2015-2016
- Member of Habilitation Committee Dr.<sup>in</sup> Iris Groher (“Angewandte Informatik”), Johannes Kepler University of Linz
  - 2017
- Member of development team for curriculum on “Agrartechnologie und –management”, University of Applied Sciences Upper Austria
  - 2017-2018

- Member of development team for curriculum on “Digital Logistics Technology & Management”, University of Applied Sciences Upper Austria
  - 2018
- Member of development team for re-accreditation of curriculum on “Internationales Logistik Management”, University of Applied Sciences Upper Austria
  - 2018
- Member of Habilitation Committee Dr. Christoph Helm (“Bildungsforschung”), Johannes Kepler University of Linz
  - 2018-2019
- Program Director for Bachelor Program “Wirtschaftsinformatik” in the JKU Business School
  - 2019
- Member of Curriculum Commission at the University for Continuing Education Krems
  - from 2019 onward
- Member of Committee for Equal Opportunities at the University for Continuing Education Krems
  - from 2019 onward
- Chairman of the Appointment Committee for the Professorship for Higher Education Research and Higher Education Development at the University for Continuing Education Krems
  - 2019-2020
- Chairman of the Appointment Committee for the Professorship for Continuing Education Processes in digitally supported Teaching and Learning Environments at the University for Continuing Education Krems
  - 2019-2020
- Member of the Development Team for the PhD programme on Technology, Innovation and Cohesive Societies at the University for Continuing Education Krems
  - 2020-2021
- Member of the Development Team for the PhD programme on Cultural Heritage at the University for Continuing Education Krems
  - 2020-2022
- Head of the Development Team for the PhD programme on Continuing Education and Lifelong Learning at the University for Continuing Education Krems
  - 2020-2022
- Member of the Steering Group and of several Working Groups for managing the Reform of Continuing Academic Education at the University for Continuing Education Krems
  - from 2021

## Grants

The following list contains all grants Stefan Oppl has successfully applied for or was part of the submitting teams of principal investigators. Overall acquired third party funding managed under his responsibility amounts to approx. 2,77 Mio.

- IANES – Interactive Articulation, Negotiation and Enactment of Subject-Oriented Business Process Knowledge
  - EU FP7 PEOPLE IAPP (Industry-Academia Partnerships and Pathways), 2011

- proposal development lead
  - overall funding approx. EUR 1,6 Mio
- FARAW – Facilitating Articulation and Reflection about Work
  - EU LLL LdV ToI (Transfer of Innovation in Vocational Training Institutions), 2012
  - proposal development lead
  - overall funding approx. EUR 300.000,-
- SURGEOM 2013 – Subject-driven Role-guided Externalization of Organizational Models
  - EU LLL ERASMUS IP (Intensive Programme), 2012
  - proposal development lead
  - overall funding approx. EUR 40.000,-
- SURGEOM 2014 – Subject-driven Role-guided Externalization of Organizational Models
  - EU LLL ERASMUS IP (Intensive Programme), 2013
  - proposal development lead
  - overall funding approx. EUR 40.000,-
- FLY – Financial Literary for You
  - EU Erasmus+ Strategic Partnership, 2014
  - contributions to proposal as project partner
  - partner funding approx. EUR 55.000,-
- Scaffolds for Work Process Modeling
  - FWF Erwin-Schrödinger-Fellowship, 2015
  - sole proposal author
  - overall funding approx. EUR 34.000,-
- Talent Praktika
  - BMVIT program for internships of high school students, 2011-2019
  - sole proposal author and supervisor
  - overall funding approx. EUR 12.000,- (11 fellowships)
- DigiFit4All
  - Austrian Federal Ministry of Education Science and Research, Call for HEI-projects on addressing challenges of the digital and social transformation, 2019
  - contributions to proposal as project partner
  - partner funding approx. EUR 174.000,-
- TRANSFORM
  - Austrian Federal Ministry of Education Science and Research, Call for HEI-projects on addressing challenges of the digital and social transformation, 2019
  - contributions to proposal as project partner
  - partner funding approx. EUR 95.000,-
- CodeAbility Austria
  - Austrian Federal Ministry of Education Science and Research, Call for HEI-projects on addressing challenges of the digital and social transformation, 2019
  - contributions to proposal as project partner
  - partner funding approx. EUR 149.000,-
- MathSkillTest

- Austrian Federal Ministry of Education Science and Research, Call for HEI-projects on addressing challenges of the digital and social transformation, 2019
- contributions to proposal as project partner
- partner funding approx. EUR 160.000,-
- DDM4SME
  - EU Erasmus+ Strategic Partnership, 2020
  - contributions to proposal as project partner
  - partner funding approx. EUR 20.000,-
- Study “Distance Learning in Austria in times of COVID-19”
  - Austrian Federal Ministry of Education Science and Research, Study, 2021
  - contributions to proposal as project partner
  - partner funding approx. EUR 10.000,-
- Concept Development “Kompetenzsiegel”
  - Federal Government of Lower Austria, Study, 2021
  - proposal development lead
  - funding approx. EUR 20.000,-
- Study “Erreichbarkeit von Eltern und Jugendlichen in Bezug auf die berufliche Orientierung in Niederösterreich”
  - Federal Government of Lower Austria, Study, 2021
  - proposal development lead
  - funding approx. EUR 30.000,-
- Studies “Digitale Universitäten” and “Strategielandkarte Digitalisierung im Bildungssystem“ as a part of „Digitaler Aktionsplan Austria“
  - Austrian Federal Ministry of Digital and Economic Affairs, Study, 2021
  - contributions as project partner
  - funding approx. EUR 50.000,-
- Tender Project “Digitalization of the Austrian Education System”
  - European Union, 2021
  - scientific lead partner
  - funding approx. EUR 100.000,-
- T.E.S.T.
  - EU Erasmus+ Strategic Partnership, 2021
  - contributions to proposal as project partner
  - partner funding approx. EUR 55.000,-

## Participation in Academic Projects

- MobiLearn
  - NML (Neue Medien in der Lehre – Austrian funding scheme for development of innovative teaching)
  - 2003-2005
  - support of project coordinator, staff researcher
- CrossWork – Cross-Organisational Workflow Formation and Enactment
  - EU FP6 ICT
  - 2004-2006
  - local partner coordinator, staff researcher
- SUDDEN – SMEs Undertaking Design of Dynamic Ecosystem Networks

- EU FP6 ICT
  - 2006-2009
  - local partner coordinator, staff researcher
- TM4Scholion – A topic map engine for flexible content in learning support systems
  - internal project at the Department of Business Information Systems at JKU
  - 2006 – 2007
  - researcher, lead developer
- Comprehend – A tangible tabletop interface supporting explicit articulation work
  - internal project at the Department of Business Information Systems at JKU
  - since 2006 (PhD project until 2010, continued as an internal project later on)
  - principal investigator, lead developer (until 2010)
- SMARTtransformation
  - FFG Basisprogramm (Austrian national funding scheme for applied research)
  - 2010-2011
  - project member
- IANES – Interactive Articulation, Negotiation and Enactment of Subject-Oriented Business Process Knowledge
  - EU FP7 PEOPLE IAPP (Industry-Academia Partnerships and Pathways)
  - 2011-2015
  - coordinator and principal investigator
- FARAW – Facilitating Articulation and Reflection about Work
  - EU LLL LdV Tol (Transfer of Innovation in Vocational Training Institutions)
  - 2012-2014
  - coordinator and principal investigator
- SURGEOM – Subject-driven Role-guided Externalization of Organizational Models
  - EU LLL ERASMUS IP (Intensive Programme)
  - 2012-2014
  - coordinator, head of curriculum development, and teacher
- AEOLION - Articulation Engineered for Organizational Learning in Interoperable, Open Networks
  - internal project at the Department of Business Information Systems at JKU
  - since 2014
  - project member
- Computerized Adaptive Testing Platform
  - internal project at the Department of Business Information Systems at JKU  
in cooperation with the Department of Educational Psychology at JKU
  - since 2015
  - coordinator, lead developer
- Scaffolds for Work Process Modeling
  - FWF Erwin-Schrödinger-Fellowship
  - 2016-2017
  - coordinator and principal investigator
- uLearn - an online learning support platform for diverse educational settings
  - internal project at the Department of Business Information Systems at JKU
  - since 2005: member of project team (prior version of the platform were named Scholion and Nymphaea)
  - 2016-2019: coordinator, product owner, lead user



- Unterstützungsinstrumente zur Arbeit an vorwissenschaftlichen Arbeiten
  - cooperation with Europagymnasium Auhof, initially backed by BMVIT Talent fellowships
  - 2018-2019
  - coordinator, teacher and supervisor
- Interactive Digital Training Materials on Gender & Diversity
  - internal project at the University for Continuing Education Krems
  - 2020-2021
  - coordinator, teacher
- Seamless Learning – Schulbuch der Zukunft
  - FFG Qualifizierungslehrgang
  - 2020-2021
  - scientific head
- LIS – Learning Innovation Spaces
  - internal research group project at the University for Continuing Education Krems
  - 2020-2021
  - member of research team
- DigiFit4All
  - Austrian Federal Ministry of Education Science and Research, Call for HEI-projects on addressing challenges of the digital and social transformation
  - 2020-2023
  - partner coordinator, member of PI team
- TRANSFORM
  - Austrian Federal Ministry of Education Science and Research, Call for HEI-projects on addressing challenges of the digital and social transformation
  - 2020-2023
  - partner coordinator, member of PI team
- Codeability Austria
  - Austrian Federal Ministry of Education Science and Research, Call for HEI-projects on addressing challenges of the digital and social transformation
  - 2020-2024
  - partner coordinator, member of PI team
- MathSkillTest
  - Austrian Federal Ministry of Education Science and Research, Call for HEI-projects on addressing challenges of the digital and social transformation
  - 2020-2023
  - partner coordinator, member of PI team
- Study “Distance Learning in Austria in times of COVID-19”
  - Austrian Federal Ministry of Education Science and Research, Study, 2021
  - 2021
  - member of PI team
- Concept Development “Kompetenzsiegel”
  - Federal Government of Lower Austria, Study, 2021
  - 2021
  - PI

- Study “Erreichbarkeit von Eltern und Jugendlichen in Bezug auf die berufliche Orientierung in Niederösterreich“
  - Federal Government of Lower Austria, Study, 2021
  - 2021
  - PI
- Studies “Digitale Universitäten” and “Strategielandkarte Digitalisierung im Bildungssystem“ as a part of „Digitaler Aktionsplan Austria“
  - Austrian Federal Ministry of Digital and Economic Affairs, Study, 2021
  - 2021
  - member of PI team
- T.E.S.T.
  - EU Erasmus+ Strategic Partnership, 2021
  - 2022-2024
  - member of PI team
- DDM4SME
  - EU Erasmus+ Strategic Partnership, 2020
  - 2021-2023
  - member of PI team

## Teaching

The following list outlines all academic courses Stefan Oppl has given starting from 2004. The courses are categorized along the curricula they are part of. For each course, the number of times it has been held is given as well as the course format (lecture, lab, seminar, proseminar, etc.) and the number of ECTS awarded to students for successful completion. The second part lists all diploma, master and bachelor theses Stefan Oppl has (co-)supervised. In the last part of the section, his contributions to curriculum and course design are listed.

### Courses held at Danube-University Krems

#### eEducation (Master)

- Bildungstechnologien
  - lecture + seminar, master level
  - 6 ECTS
  - held once
- Medientechnik Grundlagen
  - seminar, master level
  - 3 ECTS
  - held twice
- Wissenschaftliches Arbeiten
  - seminar, master level
  - 3 ECTS
  - held three times
- Forschungsmethoden
  - seminar, master level
  - 3 ECTS
  - held three times
- Wissensmanagement

- lecture + seminar, master level
  - 3 ECTS
  - held twice
- Kollaboratives Lernen und Communities of Practice
  - lecture + seminar, master level
  - 3 ECTS
  - held once
- Masterthesen-Seminar
  - seminar, master level
  - 3 ECTS
  - held three times

#### Chief Digital Officer (Master)

- Internet of Things
  - lecture + seminar, master level
  - 3 ECTS
  - held once
- Forschungsmethoden
  - seminar, master level
  - 3 ECTS
  - held once

#### Professional MBA (Master)

- Digitale Realität in Organisationen
  - lecture + seminar, master level
  - 3,5 ECTS
  - held once

#### Courses held at the Johannes Kepler University of Linz

##### Wirtschaftsinformatik (Diploma, Bachelor, Master)

- VL Prozess- und Kommunikationsmodellierung
  - lecture, bachelor level
  - 3 ECTS
  - held 8 times (taught in English once)
- UE Prozess- und Kommunikationsmodellierung
  - lab, bachelor level
  - 3 ECTS
  - held 13 times
- VL Communications Engineering
  - lecture, bachelor level
  - 3 ECTS
  - held 9 times
- UE Communications Engineering
  - lab, bachelor level
  - 3 ECTS
  - held 11 times
- SE Communications Engineering
  - seminar, diploma program

- 3 ECTS
- held 7 times
- PS Communications Engineering
  - proseminar (introduction to scientific work practices), bachelor level
  - 3 ECTS
  - held 16 times
- KT Communications Engineering
  - competence training (development of practical IT skills), bachelor level
  - 3 ECTS
  - held once
- PJ IT-Projekt Wirtschaftsinformatik
  - IT project (group work to solve practical problems), bachelor level
  - 6 ECTS
  - supervised 16 projects with 39 participants over 15 terms
- PE Spezielle Wirtschaftsinformatik – Theorie und Praxis
  - bachelor seminar, bachelor level
  - 12 ECTS
  - held 4 times
- KV Advanced Business Engineering & Management
  - combination of lecture and lab, master level
  - 3 ECTS
  - held 3 times
- PR Business Engineering & Management
  - solving practical socio-technical problems, master level
  - 6 ECTS
  - supervised 29 projects with 57 participants over 20 terms
- SE Diplomandenseminar
  - diploma / master seminar, master level
  - 12 ECTS
  - held once

#### Wirtschaftswissenschaften (Diploma)

- SE Wissensmanagement
  - seminar, diploma program
  - 3 ECTS
  - held once

#### Angewandtes Wissensmanagement (Master)

- Konzeptionen von Wissensmanagement und deren Einsatzmöglichkeiten
  - combination of lecture and lab, master level
  - 3 ECTS
  - held once
- Web-basiertes Contentmanagement
  - combination of lecture and lab, master level
  - 3 ECTS
  - held 4 times
- Web Engineering
  - combination of lecture and lab, master level

- 1,5 ECTS
- held once
- Techniken der sozialen Vernetzung
  - combination of lecture and lab, master level
  - 1,5 ECTS
  - held 5 times

#### Courses held at the University of Applied Sciences Upper Austria

Aside his teaching at Danube University and JKU, Stefan Oppl has given courses at the University of Applied Sciences Upper Austria since summer term 2007. The following list gives an overview about the taught courses:

##### Marketing and Electronic Business (Bachelor)

- Übung IT 1 – Internet Grundlagen
  - lab, bachelor level
  - 1,5 ECTS
  - held 5 times
- Vorlesung IT 3 – Daten Management 2 (Betriebliche Datenverwaltung)
  - lecture, bachelor level
  - 1,5 ECTS
  - held 10 times (5 terms for full-time and part-time students)
- Übung IT 3 - Daten Management 2 (Betriebliche Datenverwaltung)
  - lab, bachelor level
  - 1,5 ECTS
  - held once
- Übung Datenmanagement 2 (Data Analytics)
  - lab, bachelor level
  - 3 ECTS
  - held once
- Vorlesung IT 4 – Mobile Computing
  - lecture, bachelor level
  - 1,5 ECTS
  - held 10 times (5 terms for full-time and part-time students)
- Übung IT 5 – Internet Security
  - lab, bachelor level
  - 1,5 ECTS
  - held 16 times (8 terms for full-time and part-time students)
- Seminar Bachelorarbeit 1 (held 6 times)

##### Digital Business Management (Master)

- Vorlesung Web Engineering
  - lecture, master level
  - 3 ECTS
  - held twice

##### Digitales Transport- und Logistik-Management (Master)

- Kurs Enterprise Architecting und Business Process Management
  - lecture+lab, master level
  - 1,5 ECTS

- held four times
- Kurs Computer-Supported Collaborative Work
  - lecture+lab, master level
  - 1,5 ECTS
  - held three times
- Kurs Distributed Systems Design
  - lecture+lab, master level
  - 1,5 ECTS
  - held three times

#### Kommunikation, Wissen, Medien (Bachelor)

- Übung Wissensmanagement
  - lab, bachelor level
  - 1,5 ECTS
  - held once

#### Global Sales Management (Bachelor)

- Vorlesung IT 1 – IT Grundlagen
  - lecture, bachelor level, taught in English
  - 1,5 ECTS
  - held three times
- Übung IT 1 – Algorithmen und Datenstrukturen
  - lab, bachelor level, taught in English
  - 3 ECTS
  - held 6 times (3 terms with two groups each term)
- Übung IT 2 – Standardsoftware
  - lab, bachelor level, taught in English
  - 3 ECTS
  - held 4 times

#### Internationales Logistik-Management (Bachelor)

- Vorlesung IT 1 – IT Grundlagen & Datenmanagement
  - lecture, bachelor level
  - 1,5 ECTS
  - held twice

#### (Co-)Supervised Theses

The following theses have been (co-)supervised by Stefan Oppl. Co-supervision was done with his supervisor Christian Stary for all theses listed below in the curricula of Wirtschaftsinformatik and Wirtschaftswissenschaften at JKU.

#### PhD Theses Education (JKU)

- Nilay Aral: Crowdsourcing of item calibration for computerized adaptive testing, ongoing (primary supervisor)
- Birgit Albaner: The digitality of teaching – Support systems for educators in a digital-analogue context of interconnectedness, ongoing (secondary supervisor)

#### PhD Theses Wirtschaftsinformatik (JKU)

- Florian Krenn: Erschließung von Prozessmodellen durch Multiperspektivität, 2018 (co-examiner)

- Harald Lerchner: Externalisierung und Modellierung von Prozesswissen von ExpertInnen, ongoing (co-examiner)
- Dominik Wachholder: Adding Value to Self-regulated Learning through Situative Learning Support, 2017 (internal co-supervision)

#### PhD Theses Verkehrssystemplanung (TU Wien)

- Markus Pajones: Auswahl von nachhaltigen Logistikstandorten, 2021 (co-examiner)

#### Diploma/Master Theses Wirtschaftsinformatik (JKU)

- Dennis Akkoyun: Der Einfluss der Gestaltung von Benutzerschnittstellen auf die Erlernbarkeit der Bedienung von touchscreenbasierten Eingabegeräten, 2021
- Sara Bartos: Inquiry-based Learning mit OpenCroquet, 2008
- Peter Baumann: Automatisierte Item- Auswertung für eine Computerized Adaptive Testing Plattform, 2018
- Stefan Berger-Schützeneder, Gernot Hammerle: Konzeption und Implementierung eines Informationsportals anhand der Communications Engineering Website, 2007
- Patrick Demel: Webgestützte Abwicklung von 3D-Druckprozessen, 2020
- Eva Doppelhammer: Konzept und prototypische Implementierung eines Plugins zum Erfassen von Metadaten und deren Repräsentation in einem Wiki, 2007
- Markus Eggenreiter: Application of scalable Workflow-Management- Systems in 3D printing, 2021
- Franz Emberger: Energy Efficiency in Small-Scale Server Settings, 2013
- Thomas Feiner: Modelleditor auf Basis dynamischer Metamodelle zur Unterstützung partizipativer Modellerfassung und –reflexion, 2008
- Matthias Freudenberger: Implementierung eines Werkzeuges zur kooperativen, verteilten Erstellung semantisch offener Modelle, 2011
- Florian Furtmüller: Implementierung eines Frameworks für berührbare Benutzungsschnittstellen, 2007
- Bernhard Hirsch: Entwicklung einer ECM-Lösung mit semantischen Dokumentenbeziehungen und kontextabhängiger Datenpublikation, 2009
- Felix Hochleitner: Validation of Business Process Models Through Virtual Enactment, 2017
- Helge Hosiner: Implementierung eines Bibliotheksprogrammes CE-Biblio+ unter Verwendung von Workflow- und Usability-Methoden, 2011
- Linus Jiryes: Quality Indicators for Selecting a Modeling Approach Based on Model Quality Frameworks, 2012
- Gerald Kernstock: Eine Ontologie zur Beschreibung von Arbeitsabläufen, 2013
- Martina Kremsmayr: Auditives Erlernen eines Songtextes, 2021
- Manuela Maier: Organizational Memories – Konzepte und Realisierungen, 2008
- Georg Mayrhauser: Abbildung der Content-Struktur einer E-Learning-Plattform auf semantische Netze, 2010
- Florian Mühlburger: Computerized Adaptive Testing in Geogebra, 202
- Matthias Neubauer: Abbildung generischer Modeller auf Topic Maps, 2008
- Sonja Polt: Process Understandability, 2021
- Theresa Prinz: Ein mobiles Werkzeug zur Erstellung von Boundary Profiles, 2019
- Armin Sanders: Ein Portalentwicklungszyklus dargestellt anhand der Neukonstruktion der Seiten „Aufbaustudium Angewandtes Wissensmanagement“ und „Zentrum für Wissensmanagement“, 2008

- Günther Seiringer: Entwicklung eines Editors für die Erstellung und Visualisierung von Topic Maps, 2008
- Maximilian Silber: Semantic Interpretation of Spatial Arrangements of card-based Conceptual Models, 2017
- Hans-Peter Wagner: Grafische und diagrammatische Arbeitsmodellierungssprachen – Konzepte und Realisierungen, 2009
- Patrick Wahlmüller: Evaluation eines Werkzeugs zur Unterstützung von Articulation Work in der Praxis, 2010
- Nicole Wolfsteiner: Gestaltung eines Freinet-orientierten eLearning-Kurses, 2015

#### Diploma Theses Wirtschaftswissenschaften (JKU)

- Stanislava Kobzova: Abbildung individueller Sichtweisen auf Arbeitsabläufe und deren Zusammenhänge in Organisationalen Gedächtnissystemen, 2013

#### Master Theses Digital Business Management (JKU/FH OÖ)

- Dieter Böhm: Functional Size Measurement im agilen Vorgehensmodell SCRUM, 2016
- Martina Reifetshammer: Geschäftsmodell-Erweiterung der VKB-Bank um Online Kanäle, 2014
- Johannes Schuhmann: Mobile Payment – Akzeptanz von Technologien und Geschäftsmodellen, 2013

#### Master Theses Supply Chain Management (FH OÖ)

- Jürgen Steinbichler: Neue Geschäftsmodelle in bestehenden Unternehmen – Die digitale Transformation , 2016

#### Master Theses Digitales Transport- und Logistik-Management (FH OÖ)

- Katalin-Viktoria Borbely: Highly automated transport systems for in-house supply of critical maintenance parts, 2020

#### Master Theses eEducation (UWK)

- Todo

#### Master Theses Chief Digital Officer (UWK)

- Todo

#### Master Theses eGov (UWK)

- Todo

## Curriculum and Course Development

Aside his teaching activities, Stefan Oppl was also engaged in curriculum and course development during his career so far. The following list summarizes all activities, in which curricula or courses were designed from ground up or underwent a major re-design in terms of teaching methodology or content.

### Curriculum-level development

- **Erasmus Intensive Programme SURGEOM (2012-2014):** Leading the development of a two-week international summer school curriculum on subject-centric elicitation of organizational work models. Responsible for the overall course design, co-ordinating the individual teacher's contributions and contributing to teaching.
- **Re-Accreditation of Curriculum "Wirtschaftsinformatik" Bachelor & Master (2015-2016):** Participation in the preparatory team for the re-accreditation (by AQAS quality assurance agency) of the bachelor and master curricula of business informatics at



Johannes Kepler University Linz. Contributions to reporting on curriculum structure, students' questionnaires and alumni career statements.

- **FH-Curriculum “Agrar-Technologie & -Management” (2017-18):** Participation in the development team for a novel curriculum on agricultural technology and management to be offered by the university of applied sciences Upper Austria. Contributions to modules “technical foundations” and “digitization in agriculture”.
- **FH-Curriculum “Digital Transport- & Logistics-Management” (2018):** Participation in the development team for a novel curriculum on dealing with digitization in logistics to be offered by the university of applied sciences Upper Austria. Contributions to modules “technical foundations” and “enterprise architecting”.
- **Program Director “Bachelor Wirtschaftsinformatik” (2019):** Responsible for coordinating the faculty teaching in the bachelor program “Wirtschaftsinformatik” in JKU's newly founded business school. Main areas of activity: maintaining focus of program, setting up clear study paths, and designing appropriate curriculum-wide socio-technical support instruments for teaching and learning.
- **Curriculum “eEducation” (2020):** Participation in the development team for an update of a curriculum dealing with educational technologies and digitally supported teaching and learning processes at the University for Continuing Education Krems. Development of the overall curriculum concept and contributions to technology-oriented modules.
- **Curriculum “Online Media Marketing” (2020):** Participation in the development team for an update of a curriculum dealing with online marketing methods and tools at the University for Continuing Education Krems. Contribution of the overall curriculum concept.
- **Curriculum “PhD Continuing Education and Lifelong Learning” (2020-21):** Lead of the development team for an accredited PhD-curriculum on continuing education and lifelong learning at the University for Continuing Education Krems. Contribution to of the overall curriculum concept and lead in the technology-oriented modules, coordination of accreditation process.

#### Course-level development

- **Proseminar Communications Engineering (2010-2019):** Design of a competence-oriented seminar in the bachelor curriculum Wirtschaftsinformatik at JKU on fundamental scientific work practices designed to facilitate self-directed and collaborative learning and skill development.
- **Mentoring concept for labs Communications Engineering and Prozess- und Kommunikationsmodellierung (2010-2015):** Contribution to the design of an experiential learning concept based on mentoring small groups of collaborating students in the two labs of the Department of Business Information Systems – Communications Engineering in the bachelor curriculum Wirtschaftsinformatik at JKU.
- **Lecture recording infrastructure for courses of the Department of Business Information Systems – Communications Engineering (since 2010):** Concept development, implementation and maintenance of the CE Mediathek (<http://mediathek.ce.jku.at>) to host video recordings of courses for on-site viewing and podcast delivery. Iterative development of portable recording setups that allow

for course recording by the lecturer on various levels of sophistication (e.g., audio only, screen+audio, screen+camera+audio).

- **Course Techniken der Sozialen Vernetzung for Applied Knowledge Management (since 2008):** Development of an experiential-learning based course on socio-technical instruments for collaboration in an organizational context.
- **Course Web-based Content Management for Applied Knowledge Management (since 2009):** Development of a course block on Semantic Networks and Topic Maps. Creation of lecture notes and development of the pedagogical concept.
- **Lecture and lab Communications Engineering (since 2016):** Re-design of a module (lecture + lab) in the bachelor curriculum Wirtschaftsinformatik at JKU on distributed socio-technical system design. Implementing a flipped-classroom-approach for the lecture, which is intertwined with the phases of practical exploration embedded in the lab. Updating the content of the lecture and writing new lecture notes to be published as an Open Educational Resource.
- **Lecture and lab Prozess- und Kommunikationsmodellierung (since 2017):** Re-design of a module (lecture + lab) in the bachelor curriculum Wirtschaftsinformatik at JKU on business process modelling fundamentals. Implementing a flipped-classroom-approach for the lecture, which is intertwined with the phases of practical exploration embedded in the lab. Updating the content of the lecture and writing new lecture notes to be published as an Open Educational Resource.
- **Course Enterprise Architecting and Business Process Management (since 2018):** Design of a course in the master curriculum Digitales Transport- und Logistikmanagement at FH OÖ on fundamentals of enterprise architecting and business process management. Implementing a flipped-classroom-approach for the course, in which self-directed conceptual learning is intertwined with of practical exploration in presence-based phases. Partially re-uses content produced as OER in other courses, newly created content also published as an Open Educational Resource.
- **Materials for teaching learning scientific work practices on different educational levels (since 2018):** Design of intertwined text-based and video-based learning materials on the fundamentals of scientific work practices. Developed and produced in cooperation with Europagymnasium Auhof Linz to prepare pupils for their “VWA” (a short project documented in a scientific report). Results have been published as an Open Educational Resource and are currently deployed in schools and in various courses across disciplines at Johannes Kepler University Linz.
- **Course on Gender and Diversity for Continuing Education Programs (since 2020):** Coordination of inter-faculty initiative to develop a course and according materials to anchor Gender and Diversity as topics in continuing education curricula throughout the University for Continuing Education Krems. Content needed to be adaptable to domain-specific needs and be available in formats enabling blended learning implementations.

#### University-level development

- **Scientific head of JKU digital learning support centre (2018-2019):** Contributions to strategy development for digital learning and teaching support initiatives at university level for Johannes Kepler University Linz. Design and implementation of pilot studies in JKU’s business school and medical school.

- **Member of strategic development group “Flexible Learning” at the University for Continuing Education Krems (since 2020):** Development of concepts for more flexible curricula in terms of content and delivery formats for continuing education. Exploration of options and contributions to pilot implementations.
- **Member of strategic development group “Open Educational Resources” at the University for Continuing Education Krems (since 2021):** Development of university-wide guidelines and strategies for the development and deployment of open educational resources. Exploration of options and contributions to pilot implementations.
- **Member of the steering committee and several working groups of the REFINED programme at the University for Continuing Education Krems (since 2021):** Contributions to planning and implementing the fundamental revision of the universities educational offers in the light of the transformation of the Austrian academic continuing education sector to become fully Bologna-compliant (including the development of concepts for bachelor programs in continuing education, university-wide modularization of offers and establishing standard for teaching formats).

## Talks, Demos and Practitioner Workshops

The following lists contain all talks, demos and practitioner workshops given by Stefan Oppl. They are categorized in presentations given at scientific conferences, talks given in the course of scientific colloquia (i.e., (semi-)public scientific talks not accompanied by a written article), as well as talks, demos and practitioner workshops given for a non-academic audience. All contributions are ordered by date in each category with the most recent on top.

### Presentations at scientific conferences

- Polychronicity & Boundary Management - An exploratory study. Presented at ECCE 2021, Siena, Italy
- Erstellung und Evolution offener Bildungsressourcen in und mit verteilten Versionsverwaltungssystemen, Presented at Conference Inverted Classroom and beyond 2020, Baden/Wien, Austria
- Zur Förderung erfahrungsbasierenden kollaborativen Lernens von NEET-Jugendlichen durch die Produktion von Erklär-Videos, Presented at Momentum Kongress 2019, Hallstatt, Austria
- Which concepts do inexperienced modelers use to model work? – An exploratory study. Presented at Multikonferenz Wirtschaftsinformatik 2018, Lüneburg, Germany.
- Vielfältiges Lernen in universitären Großlehrveranstaltungen. Presented at Momentum Kongress 2017, Hallstatt, Austria.
- Introducing Fundamental Concepts of Process Modeling through Participatory Simulation, Presented at T4SIS4T Workshop at CAISE 2017, Essen, Germany.
- Scaffolding Stakeholder-Centric Enterprise Model Articulation, Presented at PoEM 2016, Skövde, Sweden.
- Towards scaffolding collaborative articulation and alignment of mental models. Presented at ICKM 2016, Vienna, Austria.

- Adopting Concepts of Freinet Pedagogy in Higher Education – A Report on the Design and Evolution of a Didactical Experiment. Presented at Momentum Kongress 2016, Hallstatt, Austria.
- AEOLION - Articulation Engineered for Organizational Learning in Interoperable, Open Networks, Presented at ISIS Summit 2015, Vienna, Austria.
- Arbeitende im Spannungsfeld IT-unterstützter Arbeitsprozesse, Presented at Momentum Kongress 2015, Hallstatt, Austria.
- Articulation of subject-oriented business process models. Presented at the 7th International Conference on Subject-Oriented Business Process Management 2015, Kiel, Germany.
- Low Cost UX Design in Knowledge Articulation, Presented at Workshop on Low Cost User Experience UX Design at ECCE 2014, Vienna, Austria.
- Towards Role-distributed Collaborative Business Process Elicitation. Presented at the Workshop on Models and their Role in Collaboration at ECSCW 2013, Paphos, Cyprus.
- Facilitating Knowledge Transfer in IANES - A Transactive Memory Approach. Presented at INFER Workshop at the Conference on Innovation through Knowledge Transfer 2012, Bournemouth, UK.
- Subject-oriented Elicitation of distributed Business-Process Knowledge. Presented at S-BPM ONE 2011, Ingolstadt, Germany.
- Effects of a Tabletop Interface on the Co-Construction of Concept Maps. Presented at INTERACT 2011, Lisbon, Portugal.
- Towards Informed Metaphor Selection for TUIs. Presented at ACM EICS 2011, Pisa, Italy.
- Using a Tangible Tabletop Interface to facilitate Articulation Work, Presented at the STELLAR Alpine Rendez-Vous Workshop on Tabletops for Education and Training 2009, Garmisch-Partenkirchen, Germany.
- Unterstützung expliziter Articulation Work. Presented in in the Session on disruptive or seamless HCI in eLearning at IATEL Symposium 2009, Darmstadt, Germany.
- Tabletop Concept Mapping. Presented at ACM Tangible and Embedded Interaction 2009, Cambridge, UK.
- Konsistente Verwendung von Metaphern als Erfolgskriterium für komplexe Tangible User Interfaces. Presented at Workshop “Be-greifbare Interaktion” at Mensch Und Computer 2009, Lübeck, Germany.
- Graspable Work Modeling. Presented at Mensch Und Computer 2008, Lübeck, Germany.
- Begreifbare Modellierung von Arbeit. Presented at Workshop “Be-greifbare Interaktion” at Mensch Und Computer 2008. Berlin, Germany.
- Spielen Sie noch? - Bausteine im Unternehmenskontext. Presented at Workshop “Lebensbegleitendes E-Learning” at Mensch Und Computer 2007. Weimar, Germany.
- Towards Tangible Work Modeling. Presented at Mensch Und Computer 2006, Gelsenkirchen, Germany
- Towards Intuitive Work Modeling with a Tangible Collaboration Interface Approach. Presented at WETICE 2006, Manchester, UK.

- Towards Human-Centered Design of Diagrammatic Representation Schemes. Presented at TAMODIA 2005, Gdansk, Poland.
- Requirements for Collaborative Process Design. Presented at Workshop at Mensch Und Computer 2005, Linz, Austria.
- Team awareness in personalised learning environments. Presented at Mobilelearning Anytimeeverywhere 2004, Rome, Italy.

#### Invited Keynotes

- Alles Digital? – eine sozio-technische Annäherung an die Zukunft der wissenschaftlichen Weiterbildung. Keynote given at e-Learning-Tage Rheinland Pfalz, Zentrum für Fernstudien im Hochschulverbund, 2022, online

#### Talks at scientific colloquia

- Forschung als Exploration von Potentialen mit konkreter Anwendung in der Bildungspraxis. Inaugural lecture given at the University for Continuing Education Krems. 2021, Krems, Austria.
- Potentiale und Herausforderungen in der Gestaltung hochschulischer Informationssysteme zur Förderung von Studienfortschritt und -abschluss. Presentation given at ÖFG Workshop „Studierende zum Abschluss motivieren“. 2021, Baden/Wien, Austria.
- Facilitating organizational alignment through people-centric articulation of knowledge about work. Presentation given in the course of defending my habilitation thesis. 2017, Linz, Austria.
- Facilitating organizational alignment through people-centric articulation of knowledge about work. Presentation for members of the Fachbereich BWL/WIN at the Johannes Kepler University of Linz in the course of submitting my habilitation thesis. 2016, Linz, Austria.
- Articulation and Alignment of Knowledge about Organizational Work. Presented at Colloquium of the Faculty of Applied Informatics at the University of Bamberg, 2016, Bamberg, Germany.
- Results from a decade of design science research on supporting reflection-on-action for organizational design via collaborative conceptual modeling techniques. Presented at Colloquium of ICA Research Group at HAN University of Applied Sciences, 2016, Arnhem, Netherlands.
- Unterstützung expliziter Articulation Work - Interaktive Externalisierung und Abstimmung mentaler Modelle. Presented at Colloquium of GI Dissertationspreis 2012, Dagstuhl, Germany.
- Unterstützung expliziter Articulation Work - Interaktive Externalisierung und Abstimmung mentaler Modelle. Presented at Colloquium of the Telecooperation Group at TU Darmstadt, 2011, Darmstadt, Germany.
- Ein Tabletop Interface zur Unterstützung expliziter Articulation Work. Presented at Colloquium of the Department of Interactive Media Systems at the Technical University of Vienna, 2009, Vienna, Austria.

#### Talks, Demos and Workshops for non-academic audiences

- Alter Wein in neuen Schläuchen – warum uns digitale Präsenz nicht weiterbringt, Presented at Conference Inverted Classroom and beyond 2021, St. Pölten, Austria

- Informierte Werkzeug-Auswahl für technologiegestütztes Lernen mittels der Media-Synchronicity-Theory, Talk given at digiPH3 Conference 2020, Austria
- Wirkung von Incentives zur aktiven Partizipation in universitären LVA ohne Anwesenheitspflicht, Talk given at the 8. Tag der Lehre at FH St. Pölten, Austria.
- Sektorenübergreifendes Lernen durch learner-generated Content am Beispiel der Unterstützung bei VWAs, Talk given at digiPH2 Conference 2019, Austria.
- Vorwissenschaftliche Arbeiten – Eine praxisorientierte Einführung. Workshop given for students of Europagymnasium Auhof, Linz, Austria.
- Zum Umgang mit Heterogenität in gestaltungsorientierten Lehrveranstaltungen durch Flipped-Classroom-Formate und Design-Thinking-Projekte. Talk given at the 7. Tag der Lehre at FH St. Pölten, Austria.
- Social Video Learning im Inverted Classroom. Talk given at digiPH Conference 2018, Austria.
- Über den Umgang mit Heterogenität in Großlehrveranstaltungen. Talk and Panel Discussion given at Dialog zur hochschulischen Lehre - Teil 3: Digitalisierung und digitale Kompetenzen in der hochschulischen Lehre, Graz, Austria
- Arbeitsprozesse artikulieren. Talk and Workshop given at Wissensmanagement-Tage Krems 2015, Krems, Austria.
- AEOLION - Articulation Engineered for Organizational Learning in Interoperable, Open Networks. Demo given at BFI Perspektive 2015, Linz, Austria.
- FARAW – Facilitating Articulation and Reflection about Work. Talk given at EVBB annual conference 2014, Zagreb, Croatia.
- FARAW – Facilitating Articulation and Reflection about Work. Talk and Workshop given at the JKU centre of knowledge management, 2014, Linz, Austria.
- Comprehend – Concepts, Methods and Tools. Invited talk at HAN University of Applied Sciences, 2013, Arnhem, Netherlands.
- Comprehend - Warum sich Menschen bei der Arbeit missverstehen ... und was man dagegen tun kann. Talk and Workshop given in the course of the JKU goes School initiative, 2013, Linz, Austria.
- Mobility heute und morgen. Invited talk given at FWI Event on mobile ERP and CRM solutions, 2013, Vienna, Austria.
- tangible interaction, tangible information - Perspektiven in Österreich? Talk and Demo given at meeting of Initiative Be-greifbare Interaktion Österreich, 2012, Linz, Austria.
- Abstimmung von Arbeitsprozessen mit Comprehend, Talk given at FameLab 2011, Vienna, Austria.
- Tabletop Concept Mapping, Talk and Demo given at OCG Treffpunkt Kulturinformatik 2009, Vienna, Austria.
- A Tabletop Interface to support Concept Mapping. Talk and Demo given at EduMedia 2009, Salzburg, Austria.
- Tangible Modeling with Comprehend. Demo given at ICKM 2007, Vienna, Austria.

#### Public outreach

- Participation in public radio discussion round “Kremser Kamingsgespräche” on the topic “Bildung – ausgebildet – zukunftsfit” in 2020.

- Contribution to TV show „Österreichbild“ on the history of and current developments at the University for Continuing Education Krems in 2021.