Curriculum Vitae

Personal Details

Name	Knut Hinkelmann

Current Position

FHNW University of Applied Sciences and Arts Northwestern Switzerland, School of Business

- Professor for Information Systems
- Head of MSc in Business Information Systems (https://www.fhnw.ch/msc-bis)
- Head of BSc in Business Artificial Intelligence
- Deputy Head of MSc Medical Informatics
- Leader of Research Group Intelligent Information Systems

Qualification

Diploma in Computer Science, University of Kaiserslautern, January 1988

Dr. rer. nat. (PhD), University of Kaiserslautern, January 1995

Professional Experience

1988 –1990	Research Institute for Application-oriented Knowledge Processing, Ulm, Researcher
1990 - 1998	German Research Center for Artificial Intelligence, DFKI, Kaiserslautern
	1990-95 Dept. of Intelligent Engineering Systems, Researcher
	1995-98 Deputy Head of Department Information Management and Document Analysis, Head of Knowledge Management Research
1992	Sabbatical at the University of Texas at Austin
1998 – 2000	Insiders Information Management GmbH, Kaiserslautern; Product Manager and Head of Innovation Group
1999 – 2000	Künstliche Intelligenz Beteiligungen GmbH, CEO
since 2000	FHNW University of Applied Sciences and Arts Northwestern Switzerland, Professor for Information Systems
	2002-08 Head of BSC in Business Information Technology,
	2006-12 Head of Competence Center Information and Knowledge Management
	since 2008 Head of MSc in Business Information Systems / Leader of Research Group Intelligent Information Systems
	since 2019 Deputy Head of MSc Medical Informatics
	since 2023 Head of BSc Business Artificial Intelligence
since 2015	University of Pretoria, Department of Informatics: Research Associate
since 2015	University of Camerino, Visiting Professor
since 2020	Managing Director of OMiLAB gGmbH (NGO)

PUBLICATIONS

Journals:

Ahmed, S. , Hinkelmann, K. , Corradini, F. (2020). Development of Fake News Model Using Machine Learning through Natural Language Processing. World Academy of Science, Engineering and Technology, Open Science Index 168, International Journal of Computer and Information Engineering, 14(12), 454 - 460

Martin, A., Emmenegger, S., Hinkelmann, K. and Thönssen, B. (2016). A viewpoint-based case-based reasoning approach utilising an enterprise architecture ontology for experience management. Enterprise Information Systems Journal. http://dx.doi.org/10.1080/17517575.2016.1161239

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Hinkelmann, K., Probst, F., Thönssen, B. (2005): Referenzmodellierung für E-Government-Services. Wirtschaftsinformatik, 47 (2005) 5, S. 356–366

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Abecker, A.; Bernardi, A.; Hinkelmann, K.; Kühn, O.; Sintek, M. (1998): Towards a Well-Founded Technology for Organizational Memories. IEEE Intelligent Systems and their Applications, Vol. 13, Nummer 3, S. 40 - 48, May/June 1998. Reprint in: James W. Cortada, John A. Woods (Eds.), The Knowledge Management Yearbook 1999-2000, Butterworth-Heinemann, pp. 185-199

Hinkelmann, K. (1998): Optimaler Einsatz geistiger Ressourcen: Vom Geschäftsprozessmanagement zum Wissensmanagement - Grundaktivitäten des Ablaufs, Hilfe durch ein Organizational Memory. Wissenschaftsmanagement - Zeitschrift für Innovation, 4.Jahrgang, Heft 3, S. 30 - 36, Mai/Juni 1998.

Hinkelmann, K.; Hintze, H. (1997): State-Saving Transformations for Efficient Bottom-Up Evaluation of Logic Programs and Rule-Based Systems. In: Annals of Mathematics and Artificial Intelligence, Vol. 20, S. 335-356

Boley, H.; Hanschke, P.; Hinkelmann, K.; Meyer, M. (1995): COLAB - A Hybrid Knowledge Representation and Compilation Laboratory. Annals of Operations Research, Vol. 55, S. 11 - 79.

Hinkelmann, K.; Meyer, M.; Schmalhofer, F. (1994): Knowledge-Base Evolution for Product and Production Planning. AI Communications, June 1994.

Hinkelmann, K.; Karagiannis, D. (1992): Context-sensitive office tasks - a generative approach. Decision Support Systems, Vol. 8, June 1992.

Peer-Reviewed Conference Papers and Book Chapters

Montecchiari, D., Hinkelmann, K. (2023). Validating Enterprise Architecture Principles Using Derivation Rules and Domain Knowledge. In: Hinkelmann, K., Lopez-Pellicer, F.J., Polini, A. (eds) Perspectives in Business Informatics Research, BIR 2023 (pp. 244-259). Lecture Notes in Business Information Processing, vol 493. Springer, Cham. https://doi.org/10.1007/978-3-031-43126-5_18

Unternährer, C., Hinkelmann, K., Schlick, S. (2023) Semantically annotated learning paths. Workshop on Domain-specific Modelling Methods and Tools. 22nd International Conference on Perspectives in Business Informatics Research (BIR 2023), September 15, 2023, Ascoli Piceno, Italy

Afonina, V., Hinkelmann, K., Montecchiari, D. (2023). Enriching Enterprise Architecture Models with Healthcare Domain Knowledge. In: Ruiz, M., Soffer, P. (eds) Advanced Information Systems Engineering Workshops. CAiSE 2023. Lecture Notes in Business Information Processing, vol 482. Springer, Cham. https://doi.org/10.1007/978-3-031-34985-0_2

Baumann, F., Hinkelmann, K., Montecchiari, D. (2023, June). Supporting Reuse of Business Process Models by Semantic Annotation. In: Ruiz, M., Soffer, P. (eds) Advanced Information Systems Engineering Workshops. CAiSE 2023. Lecture Notes in Business Information Processing, vol 482. Springer, Cham. https://doi.org/10.1007/978-3-031-34985-0_3

Telesko, R., Spahic-Bogdanovic, M., Hinkelmann, K., Pande, C. (2023, April). A new approach for teaching programming: Model-based Agile Programming (MBAD). In Proceedings of the 2023 8th International Conference on Information and Education Innovations (pp. 13-18). https://doi.org/10.1145/3594441.3594445

Eichele, S., Hinkelmann, K., Spahic-Bogdanovic, M. (2023). Ontology-Driven Enhancement of Process Mining With Domain Knowledge. In A.Martin, K.Hinkelmann, H.-G.Fill, A.Gerber, D.Lenat, R.Stolle, F.vanHarmelen(Eds.), Proceedings of the AAAI 2023 Spring Symposium on Challenges Requiring the Combination of Machine Learning and Knowledge Engineering (AAAI-MAKE2023), San Francisco, California, USA, March 27-29, 2023.

Montecchiari, D. and Hinkelmann, K. (2022). Towards Ontology-based Validation of EA Principles. 13th IFIP WG 8.1 working conference on the Practice of Enterprise Modelling POEM 2022, London, UK, November 23-25.

Spahic-Bogdanovic, M. and Hinkelmann, K. (2022). Enterprise Maps: Zooming in and out of Enterprise Models. In Proceedings of the 24th International Conference on Enterprise Information Systems - Volume 2: ICEIS, Scitepress, 515-526. https://doi.org/10.5220/0011063700003179

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Ahmed S., Balla K., Hinkelmann K., Corradini F. (2021). Fact Checking: Detection of Check Worthy Statements Through Support Vector Machine and Feed Forward Neural Network. In: Arai K. (eds) Advances in Information and Communication. FICC 2021. Advances in Intelligent Systems and Computing, vol 1364. Springer, Cham. https://doi.org/10.1007/978-3-030-73103-8_37

Mehli, C., Hinkelmann, K., Jüngling, S. (2021). Decision Support combining Machine Learning, Knowledge Representation and Case-Based Reasoning, AAAI-MAKE 2021: Combining Machine Learning and Knowledge Engineering, AAAI Spring Symposium, 22-24 March 2021.

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Hinkelmann, K. and Onufrienko, N. (2014). Explicitly Modelling Relationships of Risks on Business Architecture. In *eChallenges 2014 Conference Proceedings*.

Hinkelmann, K. & Pierfranceschi, A. (2014). Combining Process Modelling and Case Modeling. In 8th International Conference on Methodologies, Technologies and Tools enabling e-Government MeTTeG14. Udine.

Kaufmann, M., Wilke, G., Portmann, E. & Hinkelmann, K. (2014). Interactive Concept Browsing by Combining Induction and Deduction of Knowledge Structures. In *The 7th International Conference on Knowledge Science, Engineering and Management KSEM 2014*.

Hinkelmann, K. & Pasquini, A. (2014). Supporting Business and IT Alignment by Modeling Business and IT Strategy and its Relations to Enterprise Architecture. In *2nd IEEE Conference on Enterprise Systems*. Shanghai, 1-2 August 2014.

Emmenegger, S.; Hinkelmann, K.; Laurenzi, E. and Thönssen, B. (2013). *Towards a Procedure for Assessing Supply Chain Risks Using Semantic Technologies.* In: Fred, Ana; Dietz, Jan L.G., Liu, Kecheng, Filipe, Joaquim (Eds): Knowledge Discovery, Knowledge Engineering and Knowledge Management. Springer-Verlag Berlin Heidelberg, pp. 393-409

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Brander, S.; Hinkelmann, K.; Hu, B.; Martin, A.; Riss, U. V.; Thönssen, B.; Witschel, H.-F. (2011): Refining process models through the analysis of informal work practice. 9th International Conference on Business Process Management.

Böhlen, R.; Hinkelmann, K. (2011): Application and Evaluation of the Multi-dimensional Knowledge Framework Approach. Maier, Ronald (Hrsg.): 6th Conference on Professional Knowledge Management - From Knowledge to Action. GI-Edition, Lecture Notes in Informatics, Volume P-182, pp. 170-179.

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Hinkelmann, K.; Karagiannis, D. (1990): Vorgangsaspekte im Dienstleistungsbereich. In A. Reuter (Ed.), GI - 20. Jahrestagung II: Informatik auf dem Weg zum Anwender, S. 166-180. Springer-Verlag.

Books and Booklets:

Hinkelmann, K.; Thönssen, B. (2009): DMS Dokumentenmanagement. 3. Auflage, ISBN 978-3-905413-01-4, BPX-Edition, Rheinfelden.

Hinkelmann, K.; Urech, R. (2010): ECM - Enterprise Content Management, ISBN 978-3-905413-54-0, BPX-Edition, Rheinfelden.

Abecker, A.; Hinkelmann, K.; Maus, H.; Müller, H.J. (Hrsg.) (2002): Geschäftsprozessorientiertes Wissensmanagement - Effektive Wissensnutzung bei der Planung und Umsetzung von Geschäftsprozessen ISBN 3-540-42970-0. Springer-Verlag.

Hinkelmann, K. (1995): Transformation von Hornklausel-Wissensbasen: Verarbeitung gleichen Wissens durch verschiedene Inferenzen. Dissertationen zur Künstlichen Intelligenz, Band 81, infix-Verlag.

Proceedings:

Hinkelmann, K., Lopez-Pellicer, F.J., Polini, A. (eds) (2023) Perspectives in Business Informatics Research. 22nd International Conference on Business Informatics Research, BIR 2023, Ascoli Piceno, Italy, September 13-15, 2023, Lecture Notes in Business Information Processing, vol 493. Springer, Cham. https://doi.org/10.1007/978-3-031-43126-5

Hinkelmann, K. and Gerber, A. (Eds.). (2023). *Proceedings of the Society 5.0 Conference 2023*. EPiC Series in Computing, Volume 84. Easychair.

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Martin, A.; Hinkelmann, K.; Fill, H.G.; Gerber, A.; Lenat, D.; Stolle, R.; and van Harmelen, F. (2021). Combining Machine Learning and Knowledge Engineering, Proceedings of the AAAI 2022 Spring Symposium (AAAI-MAKE 2021), March 22-24, 2022. http://ceur-ws.org/Vol-2846/

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Hinkelmann, K. and Thönssen, B. (Eds.) (2015). Proceedings Third International Conference on Enterprise Systems, Basel, Switzerland, 14-15 October, https://ieeexplore.ieee.org/xpl/conhome/7403800/proceeding

Koenig, A.; Dengel, A.; Hinkelmann, K.; Kise, K.; Howlett, R.J.; Jain, L.C. (Eds.) (2011): Knowledge-Based and Intelligent Information and Engineering Systems, parts 1-4, 15th International Conference, KES 2011, Kaiserslautern, Germany, September 12-14, 2011. Springer-Verlag, LNAI6881, LNAI6882, LNAI6883, LNAI6884

Hinkelmann, K. and Thönssen, B. (Eds.) (2010): MeTTeG10 - Proceedings of the 4th International Conference on Methodologies, Technologies and Tools Enabling E-Government. edition gesowip.

Hinkelmann, K. and Wache, H. (2009): WM2009: 5th Conference on Professional Knowledge Management. GI-Edition Lecture Notes in Informatics (LNI) - Proceedings, Volume P-145

Thönssen, B.; Hinkelmann, K.; Endl, R. and Reimer, U. (Ed.) (2007): TED Conference on e-Government (TCGOV-2007) - Enhancing Public Administration Back-Offices. Poznan, Poland, April 27th 2007, Universitätsverlag Rudolf Trauner, Linz, Schriftenreihe Informatik, Band 23.

Hepp, M.; Hinkelmann, K.; Karagiannis, D.; Klein, R. and Stojanovic, N. (Ed.) (2007): Proceedings of the Workshop on Semantic Business Process and Product Lifecycle Management held in conjunction with the 3rd European Semantic Web Conference (ESWC 2007) Innsbruck, Austria, June 7, 2007, CEUR Workshop Proceedings, Vol-251

Abecker, A.; Hinkelmann, K.; Maus, H.; Müller, H.J. (Hrsg.) (2001): Geschäftsprozessorientiertes Wissensmanagement - Von der Strategie zum Content Proceedings des Workshops anlässlich der 1. Konferenz "Professionelles Wissensmanagement" WM'2001 in Baden-Baden, 14-16 März 2001, CEUR Workshop Proceedings, Vol-37, (Eine Printversion wurde als DFKI-Dokument D-01-02 veröffentlicht)

SELECTED PROJECTS

OSSY – Office Support Systems; Lead project at FAW, September 1988 until January 1990

ARC-TEC – Acquisition, Representation and Compilation of Technical Knowledge, funded by German Ministry of Research and Technology BMFT, Feb. 1990 until December 1994

VEGA – Validierung und Exploration von Wissensbasen, gefördert vom Bundesministerium für Forschung und Technologie BMFT

PASCAL 2000 – Development of an Information System for blind people, funded by Stiftung Rheinland-Pfalz für Innovation; research awarded in the Innovationswettbewerb 1996 des Landes Rheinland-Pfalz

KnowMore – Knowledge Management for Learning Organisations; funded by German Ministry of Eduction and Research BMBF, April 1997 until September 1998

PROMOTE - Process-oriented Methods and Tools for Knowledge Management, funded by the European Commission. October 2000 until September 2002

KM-SISO: Feasibility Study for Knowledge Management in Tunnel Construction Project. Funded by softnet; project partner: SISO SA, Fribourg, October 2002 until October 2003

OntoGov – Ontology-enabled e-Gov Service Configuration; funded by the European Commission IST-507237 and the Swiss Federal Office for Education and Science; April 2004 until June 2006

FIT - Fostering self-adaptive e-government service improvement using semantic technologies;funded by the European Commission, IST-2004-27090, http://www.fit-project.org/, January 2006 until October 2008

MATURE - Continuous Social Learning in Knowledge Networks, Integrated Project, funded by the European Commission, IST-216356, http://mature-ip.eu, since April 2008 until March 2012

PLUG-IT - Business and IT Alignment using a Model-Based Plug-in Framework, funded by the European Commission, IST-231430, http://plug-it-project.eu/, March 2009 until February 2012

APPRIS – Integrated Management and Information System for the efficient and effective dealing with Supply Risk, CTI Project

LearnPAd - Model-Based Social Learning for Public Administrations, funded by the European Commission, Grant Agreement No 619583, February 2014 - January 2017

CloudSocket - Business and IT-Cloud Alignment using a Smart Socket, Grant Agreement No 644690, Horizon 2020, January 2015 - December 2017

ACTIVITIES IN THE RESEARCH COMMUNITY

- Conference Chair
  - BIS 2023 - 22nd International Conference on Perspective in Business Informatics Research, 13-15 September 2023, Ascoli Piceno, Italy
  - Society 5.0 - Human centeredness in a cyber-physical society, 5-7 June 2023, Pretoria, South Africa
  - Society 5.0 - Integrating Digital World and Real World to Resolve Challenges in Business and Society, 21-23 June 2022, Windisch, Switzerland
  - Society 5.0 - Integrating Digital World and Real World to Resolve Challenges in Business and Society, 22-24 June 2021
  - ES 2015, Third International IEEE Conference on Enterprise Systems. Basel, Switzerland, 14-15 October 2015.
  - KES 2011 - 15th International Conference on *Knowledge-Based and Intelligent Information & Engineering Systems*, Kaiserslautern, Germany, 12-14 September 2011
  - 4th International Conference on Methods, Technologies and Tools for E-Government MeTTeG10, 1./2. Juli 2010, Olten, http://conferences.cs.unicam.it/metteg10/
  - 5th Conference Professional Knowledge Management; 25.-27. März 2009, Solothurn, http://www.km-conference2009.org
  - TED Conference on e-Government: Enhancing Public Administration Back-Offices, April, 2007 in Poznan, Poland
- Co-Chair of International Symposia and Workshops
  - AAAI-MAKE 2023 Spring Symposium Machine Learning and Knowledge Engineering for Hybrid Intelligence; March 27-29, 2023, https://aaai-make.info/
  - AAAI-MAKE 2022 Spring Symposium Machine Learning and Knowledge Engineering for Hybrid Intelligence; March 21-23, 2022, https://aaai-make.info/
  - AAAI-MAKE 2021 Spring Symposium Integration Machine Learning and Knowledge Engineering; March 22-25, 2021, https://aaai-make.info/
  - AAAI-MAKE 2019 Spring Symposium Integration Machine Learning and Knowledge Engineering; March 25–27, 2019, Stanford University, Palo Alto, California, USA, https://2019.aaai-make.info/
  - 1st International Workshop on Advanced Enterprise Modelling - AEM 2017. In conjunction with the International Conference on Enterprise Information Systems ICEIS 2017. 27 April 2017, Porto, Portugal.
  - AAAI 2011 Spring Symposium AI for Business Agility; 21-22 March 2011, Stanford University, California, http://web.fhnw.ch/plattformen/ai4ba2011/
  - 2nd International Workshop on Advanced Enterprise Architecture and Repositories AER2010 at the 12th International Conference on Enterprise Information Systems, 8 - 12 June, 2010 in Funchal, Madeira (Portugal)
  - 1st Workshop on Advanced Enterprise Repositories AER2009at the 11th International Conference on Enterprise Information Systems 6-10, May 2009, Milan, Italy
  - AAAI 2008 Spring Symposium AI meets Business Rules and Business Process Management; 24-26 March 2008, Stanford University, California, http://www.fhnw.ch/iwi/aibr2008
  - Semantics for Business Process and Product Lifecycle Management 2006, Workshop at the 4th European Semantic Web Conference (ESWC 2007), 7 June 2007, Innsbruck, Austria
  - Semantics for Business Process Management 2006, Workshop at the European Semantic Web Conference 2006 in Budva, Montenegro

- Reviewer for International Journals

- Member of Programme Committees of more than 60 International Conferences and Workshops

PhD Supervision

- Daniela Wolff. Kontextsensitive Unterstützung wissensintensiver Geschäftsprozesse (Context-sensitive Support of Knowledge-intensive Business Processes). University of Oldenburg, September 2012

- Barbara Thönssen. Automatic, Format-independent Generation of Metadata for Documents Based on Semantically Enriched Context Information. University of Camerino, January 2013.

- Andreas Martin. A combined Case-Based Reasoning and Process Execution Approach for Knowledge-Intensive Work. University of South Africa, May 2017.

- Alessandro Bettacchi. Process Mining for Business Process Evolution Applied to Production Chain Improvement. University of Camerino, October 2017.

- Claudio Giovanoli. A Cloud Service Quality Model for Cloud Service Mediation,. University of Camerino, May 2019.

- Sabrina Kurjakovic. Specification of Functional Requirements for Cloud Service Selection based on Enterprise Architecture. University of Camerino, January 2020

- Emanuele Laurenzi. An Agile and Ontology-Aided Approach for Domain-Specific Adaptations of Modelling Languages. University of Pretoria, May 2020

- Marco Peter. An Ontology-Aided Computer-Based Approach for Business Model Innovation Ideation. University of Camerino, September 2021

- Sajad Ahmed, Combining Text Classification and Fact Checking to Detect Fake News, University of Camerino, August 2022

- Prajakta Diwanji, A chatbot for building intrinsic motivation among students in a flipped classroom setting, University of Camerino, July 2023

Master Theses Supervision

- More than 80 master theses in the MSc Business Information Systems at FHNW University of Applied Sciences and Arts Northwestern Switzerland

- 10 master theses in the dual degree programme of FHNW University of Applied Sciences and Arts Northwestern Switzerland and University of Camerino

Teaching

- FHNW University of Applied Sciences and Arts Northwestern Switzerland.
  - Master of Science in Business Information Systems (Alignment of Business and IT, Enterprise Architecture, Business Process Management, Knowledge Engineering and Knowledge Technologies, Research Methodology)
  - Bachelor of Science in Business Information Technology (Business Process Management, Knowledge Management, Information Retrieval and Knowledge Organisation)
  - Bachelor of Science in Business Artificial Intelligence (Artificial Intelligence, Knowledge Representation and Reasoning)
  - Continuous Education and Executive Programmes (Business Process Management, Information Management, Knowledge Management)

- University of Camerino, Italy
  - Master of Science in Computer Science (Alignment of Business and IT, Knowledge Processing and Business Intelligence, Business Information Systems, Research Methodology)
  - PhD programme (Research Methods for Computer Science)

- University of Vienna, Austria
  - Bachelor of Science in Wirtschaftsinformatik, Master of Science in Wirtschaftsinformatik (Knowledge Management, Semantic Web, Business Intelligence)