

Gabriele Peters

Photographic Artist

Founder

Former Professor
for Human-Computer Interaction

Contact

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Areas of Expertise

Art, Photography, Artificial Intelligence, Self-Organization, Distance Teaching, Bitcoin

Work Experience

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| since 2025 | Artist and Founder
Development of a framework on Bitcoin that solves major challenges faced by artists and rebuilds the global art market |
| 2010-2025 | Professor and Founder of the Chair for Human-Computer Interaction, FernUniversität in Hagen, Germany
(FernUniversität in Hagen is Germany's State Distance-Learning University) |
| 1999-2025 | Freelance Artist
International exhibitions and contributions to the global art community
(see see separate document <i>Artist Resume</i>) |
| 2007-2010 | Research Professor, Founder, and Head of the Visual Computing Group, University of Applied Sciences and Arts Dortmund, Germany |
| 2004, 2005 | Visiting Professor at the Computational Vision Group, California Institute of Technology, Pasadena, USA |
| 2001-2007 | Postdoctoral Scientist at the Chair of Computer Graphics, TU Dortmund University, Germany |
| 1998, 1999 | Visiting Scientist at the Institute of Information Theory and Automation, Academy of Sciences of the Czech Republic, Prague, Czech Republic |

- 1996-2001 Doctoral Research Assistant at the Institute for Neural Computation, Ruhr-University Bochum, Germany
- 1991-1996 Student Assistant at the Institute for Neural Computation and the Biopsychology Group, Faculty of Psychology, Ruhr-University Bochum, Germany
- 1988-1991 Vocational training as a Mathematical-Technical Assistant, Hoesch AG in Dortmund, Germany

Education

- 2024 “Bitcoin Masterclass” at 21 Lectures, Zurich, Switzerland
- 2022 “Film and Cut Workshop” with Gero Breloer, Berlin, Germany
(theory from planning to execution of film productions, hands on training in a team, complete cut workflow on basis of Final Cut Pro X)
- 2017 Masterclass “Introspective Photography - In search of transcending photography” with Michael Ackerman at Eyes in Progress, Berlin, Germany (hands on work with shooting sessions, individual assignments, daily group discussions, and editing sessions)
- 2011 Executive Leadership Program at the SGMI Management Institut, St. Gallen, Switzerland
(St. Gallen Management Model: holistic, ethical, normative issues of management)
- 2009 „Media Training for Scientists – Individual camera- and interview training“, Deutscher Hochschulverband
- 2002 Doctoral degree (Dr. rer. nat.) from the Faculty of Technology, Bielefeld University, Germany
Thesis: "A View-Based Approach to Three-Dimensional Object Perception"
- 1996-1999 Photographic education at the Artistic Center of Ruhr-University Bochum, Germany
- 1991-1996 Diploma studies of Mathematics (minor subject: Psychology), Ruhr-University Bochum, Germany
Diploma in Mathematics, Thesis: "Lernen lokaler Objektmerkmale mit Bananen-Wavelets"
- 1988-1991 Vocational training as a Mathematical-Technical Assistant, Hoesch AG in Dortmund, Germany
- 1988 High school diploma, Heinrich-von-Kleist-Gymnasium, Bochum, Germany

International Experience

- Proposal and chairing of the topic *Machine Consciousness* for the Japanese-German Frontiers of Science Symposium of the Alexander von Humboldt Foundation in Kyoto, Japan, 2015-2016
- Visiting Professor at Caltech, Pasadena, USA, twice, co-developing an advanced technique for photographic panoramas, 2004/05
(see "Work Experience")
- Numerous contributions to the global art community in roles such as juror for art competitions (e.g., at SIGGRAPH's SpaceTime Competition, USA) or as portfolio reviewer (e.g. at Les Rencontres de la Photographie d'Arles, France), since 2004
(see separate document *Artist Resume*)
- Numerous photographic exhibitions at museums, galleries, fairs, or art associations in USA, Spain, UK, Switzerland, Germany, since 1999
(full list of exhibitions in separate document *Artist Resume*)
- Visiting Scientist at Academy of Sciences of the Czech Republic, Prague, Czech Republic, twice, 1998/99
(see "Work Experience")
- Numerous scientific talks given internationally (e.g., USA, Japan, Dubai, China, Europe), since 1997

Selected Honors

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| 2003 | Rudolf Chaudoire-Award of TU Dortmund University for outstanding scientific achievements |
| last 25 years | Several best paper and poster awards and nominations on international computer science conferences
(full publication list in the attachment) |

Selected Activities

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| since 2023 | Public Lectures on Art, Bitcoin, AI, and Photography (e.g., at the Constance Art Association, the Annual Meeting of the German Association for Coaching in Siegburg or a FREELENS meeting in Dortmund, Germany) |
| 2018 | Invited Expert for Artificial Intelligence on the joint AI Summit of the Ministry of Economics and the Ministry of Science of the State of North Rhine-Westphalia |
| since 2017 | Frequent Jury Member for the International SpaceTime Student Art Competition and Exhibition of SIGGRAPH, Los Angeles, USA |
| 2015 | Portfolio Reviewer at Les Rencontres de la Photographie d'Arles, Arles, France |

2015 / 2016	Proposal and chairing of the topic Machine Consciousness for the Japanese-German Frontiers of Science Symposium of the Alexander von Humboldt Foundation in Kyoto, Japan, 2016
since 2017	Member of the Advisory Board of Platonite, a company dedicated to vision based on the brain's neural code
since 2016	Deputy Spokesperson of the Steering Committee of the Professor Advisory Board (GIBU) of the Gesellschaft für Informatik (GI)
since 2012	Member of the Steering Committee of the Professor Advisory Board (GIBU) of the Gesellschaft für Informatik (GI)
2011-2019	Liaison Officer of the German Research Foundation (DFG) for FernUniversität in Hagen
since 2010	Development of one of Germany's first comprehensive distance teaching system with online courses and programming internships for large cohorts of students on Human-Computer-Interaction, Computer Generated Art, and Cooperative Algorithmic Art with over 15,000 students supervised (see Fernunireport_2023.pdf)
2007-2010	Liaison Professor of the Gesellschaft für Informatik (GI) for the University of Applied Sciences and Arts Dortmund
2004-2009	Member of the Presidium of the Gesellschaft für Informatik
since 1999	Reviewing for several Science Journals and Organizations, e.g., German Research Foundation (Deutsche Forschungsgemeinschaft (DFG)), Alexander von Humboldt Foundation, Netherlands Organization for Scientific Research (NWO), Austrian Research Promotion Agency (FFG), United States-Israel Binational Science Foundation (BSF)

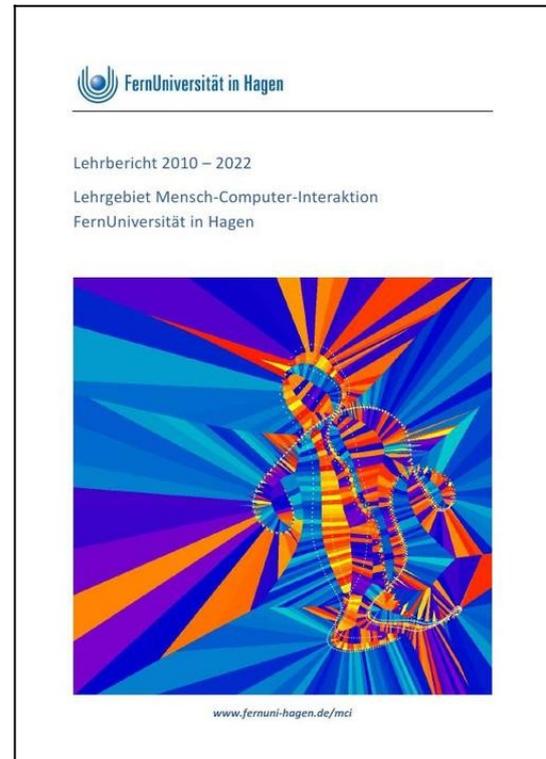
Social Engagement

2021-2022	Filing three lawsuits against my University for abuse of power by superiors and excessive bureaucracy imposed on German universities by EU regulations (see blog post Die schwarze Kali)
2021-2022	Engagement in the interdisciplinary research group "7 Argumente", a joint cooperation of 81 Professors from Germany, Austria, and Switzerland, for open discussions and public education with regards to COVID mandates, including the successful open letter to the members of the German Bundestag to prevent a general vaccination mandate

Selected References

*"The good readability of the teaching letters,
the multimedia teaching offer with videos,
further literature, online self-test,
varied teaching materials,
the fun conveyed in the HCI group,
the creation of enthusiasm,
the gender-sensitive language.
The module has the best teaching letters,
I have seen so far."*

from the student evaluation of the course
"Introduction to Human-Computer Interaction",
WS 2021/22



(see also report on our [distance teaching system](#))



Dark Days – New York, Art Gallery „Slow Art“, SIGGRAPH 2008, Los Angeles

"Pointing to an estranged reality and isolation fostered in a fast-paced contemporary urban environment, these photographs illustrate lone figures in a tonal and textural space that could only be accomplished by combining the analogue with the digital."

"Compelling images, aesthetic sophistication, and a strong commitment to experimentation of process and thinking are evident in this work."

"Certainly a compelling theme, and the combined [analog-digital] processes seem to have produced something really unique with both a vintage feel and yet unique effects."

from the reviews of the SIGGRAPH jury

Links:

Artist website: www.gabrielepeters.art

Private website: www.gabrielepeters.net

Blog: www.gabrielepeters.net/blog/

LinkedIn: www.linkedin.com/in/gabriele-peters-562a313a9/

Researchgate: www.researchgate.net/profile/Gabriele-Peters

YouTube: www.youtube.com/@kunstbitcoinfreiheit

X: www.x.com/gabrielepeters_

Nostr: avalatara@nostrplebs.com

[Report on the developed distance teaching system](#)

[Video of the lecture „Art and Bitcoin“ 2025](#)

[Video of the lecture „AI and Photography“ 2023](#)

Publications

Journal Articles

- Jens Garstka, Simone Eidam, and Gabriele Peters, A Virtual Presence System Design with Indoor Navigation Capabilities for Patients with Locked-In Syndrome, *Int. J. on Advances in Life Sciences*, Vol. 8 (3/4), pp. 175-183, 2016.
- Jochen Kerdels and Gabriele Peters, Analysis of High-Dimensional Data Using Local Input Space Histograms, *Neurocomputing*, Vol. 169, pp. 272-280, 2015.
- Klaus Häming and Gabriele Peters, Towards a Self-Learning Agent: Using Ranking Functions as a Belief Representation in Reinforcement Learning, *Neural Processing Letters*, Vol. 38 (2), pp. 117-129, Springer US, 2013.
- Klaus Häming and Gabriele Peters, Iterated Revisions in Large and Noisy State Spaces Using Ranking Functions, *Int. J. of Engineering Intelligent Systems*, Vol. 20 (1/2), 2012.
- Gabriele Peters, Criteria for the Creation of Aesthetic Images for Human-Computer Interfaces - A Survey for Computer Scientists, *Int. J. of Creative Interfaces and Computer Graphics*, Vol. 2 (1), pp. 68-98, 2011.
- Klaus Häming and Gabriele Peters, The Structure-from-Motion Reconstruction Pipeline - A Survey with Focus on Short Image Sequences, *Kybernetika*, Vol. 46 (5), pp. 926-937, 2010.
- Gabriele Peters and Klaus Häming, Fast Freehand Acquisition of 3D Objects and their Visualization, *J. of Communication and Computer*, Vol. 7 (3), 2010.
- Gabriele Peters and Martin Kluger, Adaptive Object Tracking in Dynamic Environments With User Interaction, *Transactions on Computers and Intelligent Systems*, Vol. 1 (1), pp. 1-16, 2009.
- Jyrki Joutsensalo, Timo Hämäläinen, and Gabriele Peters, The Closed Form Algorithm for QoS Supported Scheduling, *Transactions on Communications and Networking*, Vol. 3 (1), 2009.
- Gabriele Peters, A Vision System for Interactive Object Learning, *Transactions on Intelligent Systems*, Vol. 2(2), pp. 18-25, 2008.
- Gabriele Peters and Thomas Leopold, Dynamic Learning of Action Patterns for Object Acquisition, *Int. J. of Intelligent Systems Technologies and Applications*, Vol. 2 (2/3), pp. 113-124, 2007.

- Gabriele Peters,
Efficient Pose Estimation Using View-Based Object Representations, *Machine Vision and Applications*, Special Issue on ICVS 2003, Vol. 16(1), pp. 59-63, 2004.
- Gabriele Peters, Barbara Zitova, and Christoph von der Malsburg,
How to Measure the Pose Robustness of Object Views, *Image and Vision Computing, Special Issue: British Machine Vision Conference 1999*, Vol. 20(5-6), pp. 341-348, 2002.
- Gabriele Peters, Barbara Zitova, and Christoph von der Malsburg,
How to Measure the Pose Robustness of Object Views, *Image and Vision Computing*, Vol. 20(4), pp. 249-256, 2002.
- Norbert Krüger and Gabriele Peters,
ORASSYL: Object Recognition with Autonomously Learned and Sparse Symbolic Representations Based on Metrically Organized Local Line Detectors, *Computer Vision and Image Understanding*, Vol. 77(1), pp. 48-77, 2000.
- Barbara Zitova, Jaroslav Kautsky, Gabriele Peters, and Jan Flusser,
Robust Detection of Significant Points in Multiframe Images, *Pattern Recognition Letters*, Vol. 20(2), pp. 199-206, 1999.

Conference Articles

- Frederik Timme, Jochen Kerdels, and Gabriele Peters,
On the Robustness of Convolutional Neural Networks Regarding Transformed Input Images, *Proceedings of the 12th International Joint Conference on Computational Intelligence - NCTA*, pp. 396-403, 2020.
- Jochen Kerdels and Gabriele Peters,
Challenging the Intuition About Memory and Computation in Theories of Cognition, *Proceedings of the 11th International Joint Conference on Computational Intelligence - NCTA (IJCCI 2019)*, pp. 522-527, 2019.
- Jochen Kerdels and Gabriele Peters,
A Grid Cell Inspired Model of Cortical Column Function, *Proc. of the 10th Int. Joint Conference on Computational Intelligence - IJCCI*, pp. 204-210, 2018.
- Jens Garstka and Gabriele Peters,
Self-Learning 3D Object Classification, *Proc. of the 7th International Conference on Pattern Recognition Applications and Methods - ICPRAM*, pp. 511-519, 2018.
▶ **best poster award**
- Jochen Kerdels and Gabriele Peters,
Entorhinal Grid Cells May Facilitate Pattern Separation in the Hippocampus, *Proceedings of the 9th International Joint Conference on Computational Intelligence - IJCCI*, pp. 141-148, 2017.
- Jochen Kerdels and Gabriele Peters,
Modelling the Grid-like Encoding of Visual Space in Primates, *Proc. of the 8th Int. Joint Conf. on Computational Intelligence - NCTA, (IJCCI 2016)*, pp. 42-49, 2016.
▶ **best paper award**

- Jochen Kerdels and Gabriele Peters,
Noise Resilience of an RGNG-based Grid Cell Model, *Proceedings of the 8th International Joint Conference on Computational Intelligence - NCTA, (IJCCI 2016)*, pp. 33-41, 2016.
▶ **nominated for best paper award**
- Jochen Kerdels and Gabriele Peters,
A Sparse Representation of High-Dimensional Input Spaces Based on an Augmented Growing Neural Gas, *2nd Global Conference on Artificial Intelligence (GCAI 2016)*, pp. 303–313, 2016.
- Jens Garstka and Gabriele Peters,
Evaluation of Local 3-D Point Cloud Descriptors in Terms of Suitability for Object Classification, *Proceedings of the 13th International Conference on Informatics in Control, Automation and Robotics - Volume 2: ICINCO*, pp. 540-547, 2016.
- Simone Eidam, Jens Garstka, and Gabriele Peters,
Towards Regaining Mobility Through Virtual Presence for Patients with Locked-in Syndrome, *8th International Conference on Advanced Cognitive Technologies and Applications (COGNITIVE 2016)*, pp. 120-123, 2016.
▶ **best paper award**
- Jochen Kerdels and Gabriele Peters,
A New View on Grid Cells Beyond the Cognitive Map Hypothesis, *Proceedings of the 8th Conference on Artificial General Intelligence (AGI 2015)*, pp. 283-292, Berlin, Germany, July 22-25, 2015.
- Jens Garstka and Gabriele Peters,
Fast and Robust Keypoint Detection in Unstructured 3-D Point Clouds, *Proceedings of the 12th International Conference on Informatics in Control, Automation and Robotics - Volume 2: ICINCO*, pp. 131-140, 2015.
▶ **best paper award**
- Jens Garstka and Gabriele Peters,
Adaptive 3-D Object Classification with Reinforcement Learning, *Proc. of the 12th International Conference on Informatics in Control, Automation and Robotics - Volume 2: ICINCO*, pp. 381-385, 2015.
- Jochen Kerdels and Gabriele Peters,
Supporting GNG-based Clustering with Local Input Space Histograms, *Proc. of the 22nd European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN 2014)*, pp. 559-564, 2014.
- Jens Garstka and Gabriele Peters,
Learning Strategies to Select Point Cloud Descriptors for 3D Object Classification: A Proposal, *35th Annual Conference of the European Association for Computer Graphics (Eurographics 2014)*, pp. 11-12, 2014.
- Jochen Kerdels and Gabriele Peters,
A Computational Model of Grid Cells based on Dendritic Self-Organized Learning, *Proceedings of the 5th International Joint Conference on Computational Intelligence - NCTA, (IJCCI 2013)*, pp. 420-429, 2013.
▶ **nominated for best paper award**

- Jochen Kerdels and Gabriele Peters, Exploratory Modeling of Complex Information Processing Systems, *Proceedings of the 10th International Conference on Informatics in Control, Automation and Robotics - Volume 2: ICINCO*, 2013.
- Klaus Häming and Gabriele Peters, Making a Reinforcement Learning Agent Belief, *22nd International Conference on Artificial Neural Networks (ICANN 2012)*, pp. 435-442, 2012.
- Gabriele Peters, Kerstin Bunte, Marc Strickert, Michael Biehl, and Thomas Villmann, Visualization of Processes in Self-Learning Systems, *10th Annual International Conference on Privacy, Security and Trust (PST 2012)*, pp. 244-249, 2012.
- Gabriele Peters, Six Necessary Qualities of Self-Learning Systems - A Short Brainstorming, *Proceedings of the International Conference on Neural Computation Theory and Applications - NCTA, (IJCCI 2011)*, pp. 358-364, 2011.
- Klaus Häming and Gabriele Peters, Improved Revision of Ranking Functions for the Generalization of Belief in the Context of Unobserved Variables, *Proc. of the International Conference on Neural Computation Theory and Applications - NCTA, (IJCCI 2011)*, pp. 118-123, 2011.
- Klaus Häming and Gabriele Peters, Ranking Functions in Large State Spaces, *Proceedings of the 7th International Conference on Artificial Intelligence Applications and Innovations (AIAI 2011)*, pp. 219-228, 2011.
- Jens Garstka and Gabriele Peters, View-dependent 3D Projection using Depth-Image-based Head Tracking, *Proceedings of the 8th IEEE International Workshop on Projector-Camera Systems (PROCAMS 2011) in conjunction with IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2011)*, 2011.
- Klaus Häming and Gabriele Peters, A Hybrid Learning System for Object Recognition, *Proceedings of the 8th International Conference on Informatics in Control, Automation, and Robotics-Volume 1: ICINCO*, pp. 329-332, 2011.
- Klaus Häming and Gabriele Peters, An Alternative Approach to the Revision of Ordinal Conditional Functions in the Context of Multi-Valued Logic, *20th International Conference on Artificial Neural Networks (ICANN 2010)*, pp. 200-203, 2010.
- Klaus Häming and Gabriele Peters, Learning Scan Paths for Object Recognition with Relational Reinforcement Learning, *7th International Conference on Signal Processing, Pattern Recognition and Applications (SPPRA 2010)*, 2010.
- Klaus Häming and Gabriele Peters, Relational Reinforcement Learning Applied to Appearance-Based Object Recognition, *11th International Conference on Engineering Applications of Neural Networks (EANN 2009)*, pp. 301-312, 2009.

- Gabriele Peters and Klaus Häming, Take Three Snapshots - An Intuitive Tool for Fast Freehand Acquisition of 3D Objects and their Visualization, *12th IFIP TC13 Conference on Human-Computer Interaction (INTERACT 2009)*, 2009.
- Gabriele Peters, Parallels and Crossings, *submitted to: 36th International Conference and Exhibition on Computer Graphics and Interactive Techniques (SIGGRAPH 2009)*, 2009.
- Thomas Leopold, Gabriele Kern-Isberner, and Gabriele Peters, Combining Reinforcement Learning and Belief Revision Interactive Object Recognition, *18th European Conference on Artificial Intelligence (ECAI 2008)*, pp. 65-69, 2008.
- Gabriele Peters and Matthias Petke, Content-Based Selection of Methods for Image Segmentation, *10th International Conference on Signal and Image Processing (SIP 2008)*, pp. 76-81, 2008.
- Gabriele Peters, Dark Days – New York, *35th International Conference and Exhibition on Computer Graphics and Interactive Techniques (SIGGRAPH 2008)*, p. 72, 2008.
- Thomas Leopold, Gabriele Kern-Isberner, and Gabriele Peters, Belief Revision with Reinforcement Learning for Interactive Object Recognition, *18th European Conference on Artificial Intelligence (ECAI 2008)*, pp. 65-69, 2008.
- Jochen Kerdels and Gabriele Peters, A Topology-Independent Similarity Feature for High-Dimensional Feature Spaces, *Int. Conf. on Artificial Neural Networks (ICANN 2007)*, pp. 331-340, 2007.
- Gabriele Peters and Jochen Kerdels, Image Segmentation Based on Height Maps, *12th Int. Conf. on Computer Analysis of Images and Patterns (CAIP 2007)*, pp. 612-619, 2007.
- Gabriele Peters, Aesthetic Primitives of Images for Visualization, *11th Int. Conf. on Information Visualisation (IV 2007)*, pp. 275-279, 2007.
- Klaus Häming and Gabriele Peters, Extension of the Generalized Image Rectification - Catching the Infinity Cases, *4th Int. Conf. on Informatics in Control, Automation, and Robotics (ICINCO 2007)*, pp. 275-279, 2007.
- Lars Heyden, Rolf Würtz, and Gabriele Peters, Supplementing Bundle Adjustment with Evolutionary Algorithms, *Int. Conf. on Visual Information Engineering (VIE 2006)*, pp. 533-536, 2006.
- Klaus Häming and Gabriele Peters, An Object Acquisition Library for Uncalibrated Cameras in C++, *Fifth International WorkShop on Information Optics (WIO 2006)*, pp. 520-526, 2006.
- Gabriele Peters, A Vision System for Interactive Object Learning, *IEEE Int. Conf. on Computer Vision Systems (ICVS 2006)*, 2006.

- Lihl Zelnik-Manor, Gabriele Peters, and Pietro Perona, Squaring the Circle in Panoramas, *10th IEEE Int. Conf. on Computer Vision (ICCV 2005)*, pp. 1292-1299, 2005.
- Gabriele Peters and Thomas Leopold, Dynamic Learning of Action Patterns for Object Acquisition, *Int. Workshop on Automatic Learning and Real-Time (ALaRT 2005)*, pp. 15-22, 2005.
- Gabriele Peters, Thomas Leopold, Claus-Peter Alberts, Markus Briese, Sebastian Entian, Christian Gabriel, Zhiqiang Gao, Alexander Klandt, Jan Schultze, Jeremias Spiegel, Jürgen Thyen, Martina Vaupel, Peter Voß, and Qing Zhu, Adaptive Object Acquisition, *Workshop Self Organization and Emergence, 18th Int. Conf. on Architecture of Computing Systems (ARCS 2005)*, pp. 117-121, 2005.
- Gabriele Peters, Object Structure from Noisy Images, *5th Int. Conf. on Signal and Image Processing (SIP 2003)*, pp. 411-416, 2003.
- Gabriele Peters, Efficient Pose Estimation Using View-Based Object Representations, *3rd Int. Conf. on Computer Vision Systems (ICVS 2003)*, edited by J. L. Crowley, J. H. Piater, M. Vincze, L. Paletta, pp. 12-21, 2003.
- Gabriele Peters and Christoph von der Malsburg, Learning Sparse Representations of Three-Dimensional Objects, *10th European Symp. on Artificial Neural Networks (ESANN 2002)*, pp. 245-250, 2002.
- Gabriele Peters and Christoph von der Malsburg, View Reconstruction by Linear Combination of Sample Views, *12th British Machine Vision Conf. (BMVC 2001)*, edited by T. Cootes and C. Taylor, pp. 223-232, 2001.
- Gabriele Peters and Christoph von der Malsburg, Interpolation of Novel Object Views from Sample Views, *Int. Congr. on Engineering of Natural and Artificial Intelligent Systems (ENAI 2001)*, pp. 800-805, 2001.
- Barbara Zitova, Jan Flusser, Jaroslav Kautsky, and Gabriele Peters, Feature Point Detection in Multiframe Images, *Czech Pattern Recognition Workshop 2000*, pp. 117-122, 2000.
- Gabriele Peters, Barbara Zitova, and Christoph von der Malsburg, Two Methods for Comparing Different Views of the Same Object, *10th British Machine Vision Conf. (BMVC 1999)*, pp. 493-502, 1999.
- Christoph von der Malsburg, Kurt Reiser, Gabriele Peters, Jan Wieghardt, and Kazunori Okada, 3D Object Representation by 2D Views, *6th ATR Symp. on Face and Object Recognition 1999*, pp. 11-12, 1999.
- Jaroslav Kautsky, Barbara Zitova, Jan Flusser, and Gabriele Peters, Feature Point Detection in Blurred Images, *Image & Vision Comp. (IVCNZ)*, 1998.
▶ **3rd award for best poster**
- Gabriele Peters, Christian Eckes, and Christoph von der Malsburg, Tracking of Rotating Objects, *7th Int. Workshop on Structural and Syntactic Pattern Recognition, (SSPR 1998)*, pp. 390-396, 1998.

- Norbert Krüger, Gabriele Peters, and J. Schwemer, Artificial Object Recognition with Autonomously Learned Representations, *Association for Research in Vision and Ophthalmology Annual Meeting, (ARVO 1998)*, Vol. 39(4), p. 853, 1998.
- Gabriele Peters and Norbert Krüger, Learning Object Representations by Clustering Banana Wavelet Responses, *Int. Workshop on Statistical Techniques in Pattern Recognition (STIPR 1997)*, pp. 113-118, 1997.
▶ **best poster award**
- Norbert Krüger and Gabriele Peters, Object Recognition with Banana Wavelets, *5th European Symp. on Artificial Neural Networks (ESANN 1997)*, pp. 61-66, 1997.

Books And Book Chapters

- Jochen Kerdels and Gabriele Peters, Grundlagen der Interaktion, Textbook 63311-01-SoSe2025, Einführung in Mensch-Computer-Interaktion, Lektion 1, Fakultät für Mathematik und Informatik, FernUniversität in Hagen, 94 pages, Hagen, Germany, 2025.
- Jochen Kerdels and Gabriele Peters, Zwei Richtungen der Informationsübertragung, Textbook 63311-02-SoSe2025, Einführung in Mensch-Computer-Interaktion, Lektion 2, Fakultät für Mathematik und Informatik, FernUniversität in Hagen, 59 pages, Hagen, Germany, 2025.
- Gabriele Peters, Wahrnehmung des Menschen, Textbook 63311-03-SoSe2025, Einführung in Mensch-Computer-Interaktion, Lektion 3, Fakultät für Mathematik und Informatik, FernUniversität in Hagen, 68 pages, Hagen, Germany, 2025.
- Jochen Kerdels and Gabriele Peters, Gestaltung der Informationsdarstellung, Textbook 63311-04-SoSe2025, Einführung in Mensch-Computer-Interaktion, Lektion 4, Fakultät für Mathematik und Informatik, FernUniversität in Hagen, 68 pages, Hagen, Germany, 2025.
- Jens Garstka, Jochen Kerdels, and Gabriele Peters, Entwurfsmethoden für interaktive Systeme, Textbook 63311-05-SoSe2025, Einführung in Mensch-Computer-Interaktion, Lektion 5, Fakultät für Mathematik und Informatik, FernUniversität in Hagen, 91 pages, Hagen, Germany, 2025.
- Jens Garstka and Gabriele Peters, Implementierung Interaktiver Systeme, Textbook 63311-06-SoSe2025, Einführung in Mensch-Computer-Interaktion, Lektion 6, Fakultät für Mathematik und Informatik, FernUniversität in Hagen, 70 pages, Hagen, Germany, 2025.
- Jens Garstka and Gabriele Peters, Evaluation Interaktiver Systeme, Textbook 63311-07-SoSe2025, Einführung in Mensch-Computer-Interaktion, Lektion 7, Fakultät für Mathematik und Informatik, FernUniversität in Hagen, 74 pages, Hagen, Germany, 2025.

- Jochen Kerdels and Gabriele Peters, Grundlagen der Signalverarbeitung, *Textbook 63312-I-01-SoSe2025, Interaktive Systeme I: Konzepte und Methoden des Computersehens, Lektion 1, Fakultät für Mathematik und Informatik, FernUniversität in Hagen*, 71 pages, Hagen, Germany, 2025.
- Jochen Kerdels and Gabriele Peters, Fourier-Analyse, *Textbook 63312-I-02-SoSe2025, Interaktive Systeme I: Konzepte und Methoden des Computersehens, Lektion 2, Fakultät für Mathematik und Informatik, FernUniversität in Hagen*, 75 pages, Hagen, Germany, 2025.
- Jochen Kerdels and Gabriele Peters, Verarbeitung visueller Signale, *Textbook 63312-I-03-SoSe2025, Interaktive Systeme I: Konzepte und Methoden des Computersehens, Lektion 3, Fakultät für Mathematik und Informatik, FernUniversität in Hagen*, 93 pages, Hagen, Germany, 2025.
- Jochen Kerdels and Gabriele Peters, Erweiterte Signalverarbeitung, *Textbook 63312-I-04-SoSe2025, Interaktive Systeme I: Konzepte und Methoden des Computersehens, Lektion 4, Fakultät für Mathematik und Informatik, FernUniversität in Hagen*, 90 pages, Hagen, Germany, 2025.
- Jens Garstka and Gabriele Peters Geometrische Grundlagen, *Textbook 63312-II-01-SoSe2025, Interaktive Systeme II: Konzepte und Methoden bildbasierter 3D-Rekonstruktion, Lektion 1, Fakultät für Mathematik und Informatik, FernUniversität in Hagen*, 77 pages, Hagen, Germany, 2025.
- Jens Garstka and Gabriele Peters, Die Geometrie von zwei Kameras, *Textbook 63312-II-02-SoSe2025, Interaktive Systeme II: Konzepte und Methoden bildbasierter 3D-Rekonstruktion, Lektion 2, Fakultät für Mathematik und Informatik, FernUniversität in Hagen*, 89 pages, Hagen, Germany, 2025.
- Jens Garstka and Gabriele Peters, Von Bildern zu Objekten, *Textbook 63312-II-03-SoSe2025, Interaktive Systeme II: Konzepte und Methoden bildbasierter 3D-Rekonstruktion, Lektion 3, Fakultät für Mathematik und Informatik, FernUniversität in Hagen*, 67 pages, Hagen, Germany, 2025.
- Jens Garstka and Gabriele Peters, Mehr Punkte, mehr Kameras, *Textbook 63312-II-04-SoSe2025, Interaktive Systeme II: Konzepte und Methoden bildbasierter 3D-Rekonstruktion, Lektion 4, Fakultät für Mathematik und Informatik, FernUniversität in Hagen*, 74 pages, Hagen, Germany, 2025.
- Jochen Kerdels and Gabriele Peters, Efficient Approximation of a Recursive Growing Neural Gas, in: *Computational Intelligence: International Joint Conference, IJCCI 2018, Revised Selected Papers, Studies in Computational Intelligence*, Vol. 893. Springer, pp. 109-127, 2021.

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