Verzeichnis wissenschaftlicher Publikationen

List of Publications

The following overview shows the list of publications, structured according to the type of publication. Authors who have contributed equally to a publication are marked with an asterisk (*). All publications are sorted by date in descending order.

Conference Full Papers (C01-11) and Journal Articles (J01-02)

[C11] **A comparative Study of an OpenAirInterface 5G NR UE Implementation and a Commercial 5G UE**
Zhitao Lin, Konstantin Klamka
In IEEE International Mediterranean Conference on Communications and Networking (MeditCom) 2026. IEEE, 2026.

[J02] **Augmented Dynamic Data Physicalization: Blending Dynamic Data Sculptures with Virtual Content for Interactive Visualization**
Severin Engert, Andreas Peetz, Konstantin Klamka, Pierre Surer, Tobias Isenberg, Raimund Dachselt
In IEEE Transactions on Visualization and Computer Graphics, Vol. 31, No. 10, pp. 7580-7597, Oct. 2025. IEEE, 2025.

[C10] **CleAR Sight: Exploring the Potential of Interacting with Transparent Tablets in Augmented Reality**
Katja Krug, Wolfgang Büschel*, Konstantin Klamka, Raimund Dachselt*
In Proceedings of the 21st IEEE International Symposium on Mixed and Augmented Reality. ISMAR '22, Singapore. IEEE, 196-205, 2022.

[C09] **STRAIDE: A Research Platform for Shape-Changing Spatial Displays based on Actuated Strings**
Severin Engert, Konstantin Klamka, Andreas Peetz, Raimund Dachselt
In Proceedings of the 2022 ACM Conference on Human Factors in Computing Systems. CHI '22, New Orleans, USA. ACM.

[C08] **BodyStylus: Freehand On-Body Design and Fabrication of Epidermal Interfaces**
Narjes Pourjafarian, Marion Koelle, Bruno Fruchard, Sahar Mavali, Konstantin Klamka, Daniel Groeger, Paul Strohmeier, Jürgen Steimle
In Proceedings of the 2021 ACM Conference on Human Factors in Computing Systems. CHI '21, Yokohama, Japan. ACM.

[C07] **Watch+Strap: Extending Smartwatches with Interactive StrapDisplays**
Konstantin Klamka, Tom Horak*, Raimund Dachselt*
In Proceedings of the ACM Conference on Human Factors in Computing Systems. CHI '20, Honolulu, Hawaii, USA. ACM.

[C06] **Rapid Iron-On User Interfaces: Hands-on Fabrication of Interactive Textile Prototypes**
Konstantin Klamka, Raimund Dachselt, Jürgen Steimle
In Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems. CHI '20, Honolulu, Hawaii, USA. ACM, 2020.

[C05] **CHARM: Cord-based Haptic Augmented Reality Manipulation**
Konstantin Klamka, Patrick Reipschläger, Raimund Dachselt
In 21st International Conference on Human-Computer Interaction - Virtual, Augmented and Mixed Reality. Multimodal Interaction. HCII '19, Orlando, Florida, USA. Springer International Publishing, 96-114, 2019.

[C04] **fastvpn – Secure and Flexible Networking for Industry 4.0**
Andreas Bluschke, Wolfgang Büschel, Michael Hohmuth, Frieder Jehring, Rainer Kaminski, Konstantin Klamka, Stefan Köpsell, Adam Lackorzynski, Tim Lackorzynski, Michael Matthews, Philipp Rietzsch, Alexander Senier, Peter Sieber, Volker Ulrich, Rainer Wiggers, Jean Wolter
In Broadband Coverage in Germany; 12. ITG-Symposium. 12th ITG-Symposium, Berlin, Germany. VDE Verlag GmbH - Berlin - Offenbach, 28-35, 2018.

[J01] **GraSp: Combining Spatially-aware Mobile Devices and a Display Wall for Graph Visualization and Interaction**
Ulrike Kister, Konstantin Klamka, Christian Tominski, Raimund Dachselt
In Computer Graphics Forum (Volume 36, Number 3). 503-514, 2017.

[C03] **IllumiPaper: Illuminated Interactive Paper**
Konstantin Klamka, Raimund Dachselt
In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems. CHI '17, Denver, CO, USA. ACM, 5605-5618, 2017.

[C02] **Look & Pedal: Hands-free Navigation in Zoomable Information Spaces through Gaze-supported Foot Input**
Konstantin Klamka, Andreas Siegel, Stefan Vogt, Fabian Göbel, Sophie Stellmach, Raimund Dachselt
In Proceedings of the 17th International Conference on Multimodal Interaction. ICMI '15, Seattle, USA. ACM 123-130, 2015.

[C01] **Elasticcon: Elastic Controllers for Casual Interaction**
Konstantin Klamka, Raimund Dachselt
In Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services. MobileHCI '15, Copenhagen, Denmark. ACM, 410-419, 2015

Short Paper, Poster Presentations and Late-Breaking Works (P01-09)

[P09] **"A Watering Can That Never Runs Empty": A Case Study on Human-Robot Collaboration for Professional Gardeners**
Paul Auerbach, Marek Holovac, Julius Schlicht, Markus Böhme, Konstantin Klamka
In Adjunct Proceedings of the 5th Annual Symposium on Human-Computer Interaction for Work (CHIWORK). ACM, 2026.

[P08] **V-TRAD: A Visually-Augmented Testbed for Research in Autonomous Driving.**
Paul Auerbach, Konstantin Klamka
In Proceedings of the Mensch und Computer 2025. MuC '25, Chemnitz, Germany. ACM, 777–782 2025.

[P07] **Growing Green Habits: Unobtrusive Gamified Eco-Feedback to Motivate Sustainable Behavior**
Fabian Plichta, Annett Mitschick, Konstantin Klamka, Raimund Dachselt
In Mensch und Computer 2023 - Tagungsband. MuC '23, Rapperswil, Switzerland. ACM, 2023.

[P06] **Bendable Color ePaper Displays for Novel Wearable Applications and Mobile Visualization**
Konstantin Klamka, Raimund Dachselt
In the 34th Annual ACM Symposium on User Interface Software and Technology Adjunct Proceedings. UIST '21, Virtual Event, USA. ACM, 2021.

[P05] **BodyHub: A Reconfigurable Wearable System for Clothing**
Andreas Peetz, Konstantin Klamka*, Raimund Dachselt*
In the 32nd Annual ACM Symposium on User Interface Software and Technology Adjunct Proceedings. UIST '19, New Orleans, Louisiana, USA. ACM, 2019.

[P04] **Pushables: A DIY Approach for Fabricating Customizable and Self-Contained Tactile Membrane Dome Switches**
Konstantin Klamka, Raimund Dachselt
In the 31st Annual ACM Symposium on User Interface Software and Technology Adjunct Proceedings. UIST '18, Berlin, Germany. ACM, 1-4, 2018.

[P03] **HANDle: A Novel Tangible Device for Hand Therapy Exergames**
Konstantin Klamka, Annett Mitschick, Raimund Dachselt
In Mensch und Computer 2018 - Tagungsband. MuC '18, Dresden, Germany. Gesellschaft für Informatik e.V., 303-307, 2018.

[P02] **ARCord: Visually Augmented Interactive Cords for Mobile Interaction**
Konstantin Klamka, Raimund Dachselt
In Proceedings of the 2018 CHI Conference Extended Abstracts on Human Factors in Computing Systems. CHI '18, Montreal, QC, Canada. ACM, 2018.

[P01] **Supporting Graph Exploration Tasks on Display Walls using Spatially-aware Mobile Devices**
Ulrike Kister, Konstantin Klamka, Raimund Dachselt
In Poster Program of the 2016 IEEE Conference on Information Visualization (InfoVis '16). Baltimore, MD, USA. IEEE, 2 pages, 2016.

Demonstrations and Interactivities (D01-11)

[D11] **Context-Aware Secret Key Generation Demonstrator based on Physical Layer Security**
Amitha Prakasha Mayya, Yash Richhariya, Ali Khandan Boroujeni, Sebastian Vorberg, Maximilian Matthé, Rafael Vinz, Linda Senigagliesi, Konstantin Klamka, Arsenia Chorti
In IEEE Conference on Standards for Communications and Networking (CSCN). IEEE, 2025.

[D10] **Demonstrating CleAR Sight: Transparent Interaction Panels for Augmented Reality**
Wolfgang Büschel, Katja Krug, Konstantin Klamka, Raimund Dachselt
In Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems. CHI '23, Hamburg, Germany. ACM 2023.

[D09] **Demonstrating Rapid Iron-On User Interfaces: Hands-on Fabrication of Interactive Textile Prototypes**
Konstantin Klamka, Raimund Dachselt, Jürgen Steimle
In Proceedings of the 2020 CHI Conference Extended Abstracts on Human Factors in Computing Systems. CHI '20, Honolulu, Hawaii, USA. ACM, 2020.

[D08] **ScaleDial: A Novel Tangible Device for Teaching Musical Scales & Triads**
Konstantin Klamka, Jannik Wojnar, Raimund Dachselt
In CHI Conference on Human Factors in Computing Systems Extended Abstracts. CHI '19, Glasgow, UK, Scotland. ACM 2019.

[D07] **Illuminated Interactive Paper with Multiple Input Modalities for Form Filling Applications**
Konstantin Klamka, Wolfgang Büschel, Raimund Dachselt
In Proceedings of the 2017 ACM International Conference on Interactive Surfaces and Spaces. ISS '17, Brighton, UK. ACM, 434-437, 2017.

[D06] **IllumiPaper: Printed Displays for Novel Digital Pen-and-Paper User Interfaces**
Konstantin Klamka, Raimund Dachselt
In Mensch und Computer 2017 - Workshopband. Gesellschaft für Informatik e.V., 625-628, 2017.

[D05] **Demonstrating IllumiPaper: Illuminated Interactive Paper.**
Konstantin Klamka, Raimund Dachselt
Accompanying CHI 2017 Interactivity Research Demo of the SIGCHI Conference on Human Factors in Computing Systems. CHI '17, Denver, CO, USA. ACM, 2017.

[D04] **Demonstrating Elasticcon: Elastic Controllers for Casual Interaction**
Konstantin Klamka, Raimund Dachselt
Accompanying Interactivity Research Demo at the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services. MobileHCI '15, Copenhagen, Denmark. ACM, 2015.

[D03] **Rekonstruktion der Ersten Allgemeinen Deutschen Kunstausstellung Dresden 1946**
Konstantin Klamka, Thomas Schmalenberger
In Mensch & Computer 2013 - Workshopband. MuC '13, Bremen, Germany. Oldenbourg Verlag, 519-522, 2013.

[D02] **Gaze-supported Foot Interaction in Zoomable Information Spaces**
Fabian Göbel, Konstantin Klamka, Andreas Siegel, Stefan Vogt, Sophie Stellmach, Raimund Dachselt
In Proceedings of the Conference on Human Factors in Computing Systems - Extended Abstracts. CHI '13, Paris, France. ACM, 3059-3062, 2013.

[D01] **Ein Experimentalraum zur Untersuchung von Bildräumlichkeit**
Esther Lapczyna, Franziska Hannß, Konstantin Klamka, Marcus Kirsch, Benny Thomä, Rainer Groh
In Mensch & Computer 2012 – Workshopband: Interaktiv informiert – allgegenwärtig und allumfassend!?. MuC '12, Konstanz, Germany. Oldenbourg Verlag, 529-532, 2012.

Book Chapters (B01)

[B01] **Sensors and Actuators**
Ercan Altinsoy, Thomas Hulin, Uwe Vogel, Tina Bobbe, Raimund Dachselt, Konstantin Klamka, Jens Krzywinski, Simone Lenk, Lisa-Marie Lüneburg, Sebastian Merchel, Andreas Nocke, Harsimran Singh, Anna Schwendicke, Hans Winger
In: Fitzek, Frank H P; Li, Shu-Chen; Speidel, Stefanie; Strufe, Thorsten; Simsek, Meryem; Reisslein, Martin (Ed.): Tactile Internet with Human-in-the-Loop, Chapter 10, pp. 229-254, Academic Press, 2021.

Workshop Papers (W01-05) and Magazine Article (M01-02)

[M02] **Flexibles Lötlicht**
Konstantin Klamka
MAKE Magazin 06/2025, Hannover. Kreativ mit Technik | Make - Heise; Maker Media GmbH, 22-26, 2025.

[W05] **Discussing Facets of Hybrid User Interfaces for the Medical Domain**
Katja Krug, Ricardo Langner, Konstantin Klamka
In Proceedings of 2023 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct). ISMAR '23, Sydney. IEEE, 2023.

[W04] **Tailored but versatile, simple but powerful: Challenges and Insights of Wearable Toolkit Design**
Andreas Peetz, Konstantin Klamka, Raimund Dachselt
In CHI 2022 Workshop on Toolkits & Wearables - Developing Toolkits for Exploring Wearable Designs. New Orleans, LA, USA. 2022.

[M01] **Folientaster selbstgemacht – von Hand oder mit der Maschine**
Konstantin Klamka, Raimund Dachselt
MAKE Magazin 01/2019, Hannover. Kreativ mit Technik | Make - Heise; Maker Media GmbH, 84-85, 2019.

[W03] **The Future Role of Visual Feedback for Unobtrusive E-Textile Interfaces**
Konstantin Klamka, Raimund Dachselt
In CHI 2018 Workshop: (Un)Acceptable!?! — Re-thinking the Social Acceptability of Emerging Technologies. CHI '18, Montreal, QC, Canada. 2018.

[W02] **Logging in Visualizations: Challenges of Interaction Techniques Beyond Mouse and Keyboard**
Tom Horak, Ulrike Kister, Konstantin Klamka, Ricardo Langner, Raimund Dachselt
In VIS '16 Workshop: Logging Interactive Visualizations & Visualizing Interaction Logs (LIVVIL). Baltimore, MD, USA. 2 pages.

[W01] **Gaze-supported Foot Interaction in Zoomable Information Spaces**
Fabian Göbel, Konstantin Klamka, Andreas Siegel, Stefan Vogt, Sophie Stellmach, Raimund Dachselt
In CHI 2013 Workshop on Gaze Interaction in the Post-WIMP World. CHI '13, Paris, France. 2013.