

## 1. Publication list

The full, up-to-date list is available on my Google Scholar page, [https://scholar.google.de/citations?&user=SDpgS\\_MAAAAJ](https://scholar.google.de/citations?&user=SDpgS_MAAAAJ). (citation count: 1538, h-index: 20, i10-index: 48; as of July 16th, 2019).

## 1.1 PEER-REVIEWED PUBLICATIONS IN INTERNATIONAL JOURNALS

- [1] Alois Ferscha, Manfred Hechinger, Marcos dos Santos Rocha, Rene Mayrhofer, Andreas Zeidler, Andreas Riener, and Marquart Franz. Building flexible manufacturing systems based on peer-its. *EURASIP Journal on Embedded Systems*, October 2007.
- [2] Alois Ferscha, Manfred Hechinger, Andreas Riener, Marcos dos Santos Rocha, Andreas Zeidler, Marquart Franz, and Rene Mayrhofer. Peer-it: Stick-on solutions for networks of things. *Pervasive and Mobile Computing Journal (PMC)*, 4(3):448–479, June 2008.
- [3] Andreas Riener. Influence of Age and Gender on the Reaction Performance in Human-Vehicle Interaction. *i-com, Zeitschrift für interaktive und kooperative Medien*, 8(2):34–39, August 2009.
- [4] Andreas Riener, Guido Kempster, Timo Saari, and Kenneth Revett. Subliminal Communication in Human-Computer Interaction (Editorial to the Special Issue). *Advances in Human-Computer Interaction*, 2011, Article ID 156028:3, May 2011.
- [5] Andreas Riener. Assessment of Simulator Fidelity and Validity in Simulator and On-the-road Studies. *International Journal On Advances in Systems and Measurements*, 3(3 & 4):110–124 (15), February 2011. ISSN: 1942-261x.
- [6] Andreas Riener. Display content adaptation using a force sensitive office chair. *International Journal of Ambient Computing and Intelligence (IJACI)*, 3(3):8–17 (10), July 2011. ISSN: 1941-6237.
- [7] Reinhard Müllner and Andreas Riener. An energy efficient pedestrian aware Smart Street Lighting system. *International Journal of Pervasive Computing and Communications (IJPC)*, 7(2):147–161 (15), July 2011. ISSN: 1742-7371.
- [8] Andreas Riener. Subliminal persuasion and its potential for driver behavior adaptation. *Intelligent Transportation Systems, IEEE Transactions on*, 13(1):71–80, March 2012.
- [9] Andreas Riener. Gestural interaction in vehicular applications. *Computer, IEEE Computer Society*, 45:42–47, 2012.
- [10] Andreas Riener, Kashif Zia, Alois Ferscha, Cristina Beltran Ruiz, and Juan Jesus Minguez Rubio. Traffic flow harmonization in expressway merging. *Personal and Ubiquitous Computing (PUC)*, 17:519–532, February 2013.
- [11] Andrew L. Kun, Linda Ng Boyle, Bryan Reimer, and Andreas Riener. AutomotiveUI: Interacting with Technology in Vehicles. *IEEE Pervasive Computing*, 12(2):80–82, April-June 2013. ISSN: 1536-1268.
- [12] Kashif Zia, Kate (Katayoun) Farrahi, Andreas Riener, and Alois Ferscha. An Agent-Based Parallel Geo-Simulation of Urban Mobility during City-scale Evacuation. *Simulation: Transactions of the Society for Modeling and Simulation International, SAGE*, 0(0):29, May 2013.
- [13] Andreas Riener, Mohamed Aly, and Alois Ferscha. Driver Emotional State Recognition. *Elsevier International Journal of Psychophysiology*, –:33, 2014. *under review*.
- [14] Ethiopia Nigusie, Andreas Riener, and Liang Guang. Introduction to the Special Issue on Context-aware Architectures and Services on Emerging Infrastructures. *Scalable Computing: Practice and Experience*, 14(3):3–4, October 2013. ISSN: 1895–1767.
- [15] Andreas Riener and Andreas Sippl. Head Pose Based Attention Recognition on Large Public Display. *IEEE Computer Graphics & Applications*, 34(1):32–41 (10), January-February 2014.
- [16] Andreas Riener, Matthew Fullerton, Kashif Zia, Christian Maag, Christian Mark, Cristina Beltran Ruiz, and Juan Jesus Minguez Rubio. Modular simulation-based physical and emotional assessment of ambient intelligence in traffic. *IEEE Transactions on Human-Machine Systems*, 44(2):286–292 (7), March 2014. ISSN: 2168-2291, Technical correspondence.
- [17] Andreas Riener, Myoungsoon Jeon, and Miriam Reiner. Theory and technological implications of subliminal perception research. *Presence: Teleoperators and Virtual Environments, Special issue on subliminal/unaware cues and perception of presence in virtual, telepresence, and automotive environments, Guest editors' introduction*, 23(1):iii–vii (5), May 2014. ISSN: 1054-7460.
- [18] Andreas Riener, Pierre Chalfoun, and Claude Frasson. The Potential of Subliminal Information Displays to Change Driver Behavior. *Presence: Teleoperators and Virtual Environments, Special issue on subliminal/unaware cues and perception of presence in virtual, telepresence, and automotive environments*, 23(1):51–70 (20), April 2014. ISSN: 1054-7460.
- [19] Andreas Riener, Myoungsoon Jeon, Ignacio Alvarez, and Franco Zambonelli. Special Issue on The Social Car: Socially-inspired Mechanisms for Future Mobility Services, Editorial. In Behrooz Shirazi, editor, *Pervasive and Mobile Computing*, volume 14, pages 66–70. Elsevier B.V., Amsterdam, The Netherlands, October 2014. ISSN: 1574-1192.
- [20] Sally A. Applin and Andreas Riener Mike D. Fischer. Extending driver-vehicle interface research into the mobile device commons : Transitioning to (non)driving passengers and their vehicles. *IEEE Consumer Electronics Magazine*, 4(4):101–106, Oct 2015.
- [21] Philipp Wintersberger and Andreas Riener. Trust in technology as a safety aspect in highly automated driving. In: *i-com: Journal of Interactive Media, Special Issue on Human-Machine Interaction and Cooperation in Safety-Critical Systems*, 15(3):297–310, Dec 2016.
- [22] Sinan Hasirlioglu and Andreas Riener. Simulating Effects of Adverse Weather Conditions for Physical-based Sensor Models. *IEEE Transactions on Intelligent Vehicles*, page 10, 2018. *under review*.
- [23] Philipp Wintersberger, Anna-Katharina Frison, Andreas Riener, and Tamara von Sawitzky. Fostering User Acceptance and Trust in Fully Automated Vehicles: Evaluating the Potential of Augmented Reality. *MIT Presence*, 27(1):18, March 2019.
- [24] Anna-Katharina Frison, Florian Lachner, Andreas Riener, and Ingrid Pettersson. Special session on Future Directions of UX Studies: Enriching Experience Evaluation through Diverse Perspectives, Preface: Guest editors' introduction. *International Journal on Interaction Design & Architecture(s) (IxD&A)*, (37):5–11, December 2018.
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- [26] Thomas Kundinger, Andreas Riener, and Nikoletta Sofra. Driver Drowsiness Detection in Partially Automated Driving based on Heart Rate Data from Wearables. *ACM Interact. Mob. Wearable Ubiquitous Technologies (IMWUT)*, 0(0):19, 2019. *under review*.

## 1.2 BOOKS AND BOOK CHAPTERS

- [27] Andreas Riener. *Sensor-Actuator Supported Implicit Interaction in Driver Assistance Systems*. Phd thesis, Johannes Kepler University, Linz, Austria, January 20, 2009. pp. 329.
- [28] Andreas Riener. *Perceptual Computer Science – Human-centric and reality-based human-machine interaction*. Habilitation thesis, Johannes Kepler University Linz, Altenberger Strasse 69, 4040 Linz, Austria, February 10 2014. pp. 279, submitted for assessment May 13, 2013, approved February 10, 2014.

- [29] Andreas Riener. *Sensor-Actuator Supported Implicit Interaction in Driver Assistance Systems*. Vieweg+Teubner Research, Wiesbaden, Germany, 1st (January 14, 2010) edition, January 2010. ISBN-13: 978-3-8348-0963-6.
- [30] Andreas Riener. *Ausgezeichnete Informatikdissertationen 2009*, volume 10 of *Lecture Notes in Informatics (LNI)*, chapter Sensor-Actuator Supported Implicit Interaction in Driver Assistance Systems, pages 221–230. Gesellschaft für Informatik (GI), Bonn, August 2010. ISBN: 978-3-88579-414-2.
- [31] Andreas Riener. *Continuous Authentication based on Biometrics: Data, Models, and Metrics*, chapter Sitting Postures & Electrocardiograms: A Method for Continuous and Unobtrusive Driver Authentication, page 30. IGI Global, 701 E. Chocolate Ave. Hershey, PA 17033, USA, September 2011. ISBN: 978-1-61350-129-0.
- [32] Andreas Riener and Alois Ferscha. Enhancing Future Mass ICT with Social Capabilities. In Evangelia Mitleton-Kelly, editor, *Co-evolution of Intelligent Socio-technical Systems*, Understanding Complex Systems, pages 141–184. Springer Berlin Heidelberg, 2013. ISBN: 978-3-642-36613-0.
- [33] Andreas Riener, Myoungsoon Jeon, and Alois Ferscha. *Human Computer Confluence: Advancing our Understanding of the Emerging Symbiotic Relation between Humans and Computing Devices*, chapter Human-Car Confluence: Socially-Inspired Driving Mechanisms, page 15. Versita, June 2016. ISBN: 978-311047113-7.
- [34] Andreas Riener. *Handbook: Affective Sciences in Human Factors and Human-Computer Interaction*, chapter Subliminal perception or “Can we perceive and be influenced by stimuli that do not reach us on a conscious level?”, page pp. 35. Elsevier, 2017.
- [35] Andreas Riener. *Unterwegs in die Zukunft: Visionen zum Strassenverkehr*, chapter Die Einführung von hochautomatisiertem Fahren: Potenziale, Risiken, Probleme, pages 105–116. MANZ Verlag Wien, September 2016. ISBN: 978-3-214-01335-6.
- [36] Andreas Riener, Philipp Wintersberger, Thomas Hempen, Thomas Brandmeier, Christian Lauerer, Sinan Hasirlioglu, and Fabio Reway. *Fachbuch “Aktive Sicherheit und Automatisiertes Fahren”*, chapter A Flexible Mixed Reality Test Environment to Improve Simulation-based Testing for Highly Automated Driving, page 18. expert Verlag, October 26–27 2016.
- [37] Andreas Riener, Susanne Boll, and Andrew L Kun. Automotive user interfaces in the age of automation (dagstuhl seminar 16262). In *Dagstuhl Reports*, volume 6. Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, 2016.
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- [39] Andreas Riener. *Professionelles Produktmanagement – Der prozessorientierte Ansatz, Rahmenbedingungen und Strategien*, chapter Virtual und Augmented Reality, pages 518–523. publicis Publishing, Erlangen, 3rd edition, 2018.
- [40] Andreas Riener. *Forum der Lehre – Digitale Akzente setzen*, chapter Lernmotivation durch Lehrmotivation – Wissen verstehen, Praxis durch Forschungsorientierung, Lernfreude durch Begeisterung, pages 26–32. S. Stumpf Design & Kommunikation, April 2018.
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- [43] Andreas Riener. Motivating students to understand, rather than consume, knowledge. *IEEE Pervasive Computing*, 18(1):79–83, 2019.
- [44] Andreas Riener et al. *Autonome Shuttlebusse im ÖPNV – Technische, gesellschaftliche und planerische Aspekte am Beispiel Bad Birnbach*. Springer Vieweg Heidelberg, March 2019.
- [45] Katharina Frison, Iabella Thang, Philipp Wintersberger, and Andreas Riener. *Autonome Shuttlebusse im ÖPNV – Technische, gesellschaftliche und planerische Aspekte am Beispiel Bad Birnbach*, chapter Gesellschaftliche Akzeptanz von automatisierten Systemen und Rahmenbedingungen für die Einführung und den Betrieb, page 30. Springer Vieweg Heidelberg, March 2019.
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### 1.3 CONFERENCE PAPERS

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- [51] Andreas Riener. Age- and Gender-Related Studies on Senses of Perception for Human-Vehicle-Interaction. In *2nd Workshop on Automotive User Interfaces and Interactive Applications (AUIIA’08), September 8–9, 2008, Luebeck, Germany*, volume 2, page 8. Logos Verlag, Berlin, September 8–9 2008. ISBN: 978-3-8325-2007-6.
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