Prof. Dr. DODIYA, JANKI
List of Publications

<u>PUBLICATIONS</u>

July 2020

<u>Users' Internal HMI Information Requirements for Highly Automated Driving</u>, Merle Lau, Marc Wilbrink, Janki Dodiya, Michael Oehl, International Conference on Human-Computer Interaction, HCII 2020

April 2020

<u>Study on the effects of automation on road user behaviour and performance, Project Report,</u> Montalvo, Carlos and Carsten, Oliver and Schieben, Anna Maria and Maerivoet, Sven and Jansen, Sven and Hoedemaeker, Marika and Ons, Bart and Jamson, Samantha and Willemsen, Dehlia and Dodiya, Janki and Wilbrink, Marc and Bolchi, Marco and Wion, Axel (2020)

Sept 2019

<u>On-board HMI design for highly automated driving: Examining user's information needs about an automated car's driving intentions in two user studies.</u> Dodiya, Janki und Oehl, Michael und Wilbrink, Marc und Kelsch, Johann und Schieben, Anna Maria, Europe Chapter, Human Factors and Ergonomics Society. Understanding Human Behaviour in Complex Systems, 02-04 Sept 2019, France. (Abstract and Presentation)

Sept 2019

<u>On-board HMI design for highly automated cars: how much information about an automated car's driving intentions does the 'driver' demand for acceptance?</u> Oehl, Michael and Dodiya, Janki and Kelsch, Johann and Wilbrink, Marc and Schieben, Anna Maria (2019) 11. Tagung der Fachgruppe Arbeits-, Organisations- und Wirtschaftspsychologie der Deutschen Gesellschaft für Psychologie, 25.-27. Sep. 2019, Braunschweig, Deutschland.

Sept 2019

<u>Light-based communication of automated vehicles with other traffic participants - a usability study in a Virtual Reality environment,</u> Kettwich, Carmen, Dodiya, Janki, Wilbrink, Marc, Schieben, Anna, International Symposium on Automotive Lighting ISAL 2019

2019

<u>Gestaltung der Interaktion von Fußgängern mit automatisierten Fahrzeugen. Ergebnisse einer Virtual-Reality Studie,</u> C Kettwich, J Dodiya, M Wilbrink, A Schieben - VDI-Berichte, 2019

2019

<u>Final human-vehicle interaction strategies for the interACT AVs.</u> Project Report. Weber, Florian and Sorokin, Lenja and Schmidt, Elisabeth and Schieben, Anna Maria and Wilbrink, Marc and Kettwich, Carmen and Dodiya, Janki and Oehl, Michael and Kaup, Marc and Willrodt, Jan-Henning and Lee, Yee Mun and Madigan, Ruth and Markkula, Gustav and Romano, Richard and Merat, Natasha (2019)

Sept 2019

<u>Fallbeispiele für VR/AR (Chapter), Book: Virtual und Augmented Reality (VR/AR),</u> Ralf Dörner, Torsten W. Kuhlen, Geert Matthys, Manfred Bogen, Stefan Rilling, Andreas Gerndt, Janki Dodiya and 20 more, Springer Publications.

Nov. 2019

<u>Testing external HMI designs for automated vehicles – An overview on user study results from the EU project interact,</u> Anna Schieben, Marc Wilbrink, Carmen Kettwich, Janki Dodiya, Florian Weber, Lenja Sorokin, Yee-Mun Lee, Ruth Madigan, Gustav Markkula, Natasha Merat, André Dietrich, Marc Kaup, 9. Tagung Automatisiertes Fahren, 2019

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June 2017	Architecture and use cases of the mobility service platform MOBiNET, Schlauch, T, Dodiya, J, Mikkelsen, L, Rickling A, ITS Strassbourg, 2017
Mar 2016	"A Lightweight Electrotactile Feedback Device to Improve Grasping in Immersive Virtual Environments, Hummel, J., Dodiya, J., Eckardt, L., Wolff, R., Gerndt, A., Kuhlen, T, IEEE Virtual Reality, 2016
Mar 2015	"A Collaborative Workspace for Strengthening Collaboration among Space Scientists" Garcia, A., Roberts, D., (University of Salford, UK), Bar, C.,(Thales Alenia Space Italia, Italy) Wolff, R., Dodiya, J., Engelke, W., Gerndt, A. (German Aerospace Centre, Germany)
Mar 2015	"VR-OOS: The DLR Virtual Reality On-Orbit Servicing Simulator with Haptic Feedback" Sagardia, M., Hertkorn, K., Hulin, T., Schaetzle, S., Wolff, R., Hummel, J., Dodiya, J., Gerndt, A.
Mar 2015	"Collaborative Telepresence Workspaces for SPACE Operation and Science" Garcia, A., Roberts, D., (University of Salford, UK),) Dodiya, J., Wolff, R (German Aerospace Centre, Germany) – **Poster**
2014	Fallbeispiel für VR/AR - Virtuelle Satellitenreparatur im Orbit. In: Virtual und Augmented Reality (VR/AR) - Grundlagen und Methoden der Virtuellen und Augmentierten Realität Gerndt, Andreas and Dodiya, Janki and Hertkorn, Katharina and Hulin, Thomas and Hummel, Johannes and Sagardia, Mikel and Wolff, Robin (2014) eXamen.press. Springer Vieweg. pp. 303-305.
Sept 2013	"Usability Evaluation of Two Simple Methods for Representing Heaviness of Virtual Objects", Hummel, J., Dodiya, J., Wolff, R., Gerndt, A., Kuhlen, T. GI VR/AR 2013.
Mar 2013	"An Evaluation of Two Simple Methods for Representing Heaviness in Immersive Virtual Environments", Hummel, J., Dodiya, J., Wolff, R., Gerndt, A., Kuhlen, T. IEEE Symposium on 3D User Interfaces (3DUI), 2013 **(Nominated for best paper award)**
Mar 2013	"An interactive virtual reality system for on-orbit servicing", Sagardia, M., Hertkorn, K., Hulin, T., Wolff, R., Hummel, J., Dodiya, J., Gerndt, A.
Oct 2012	"Towards Interacting with Force-Sensitive Thin Deformable Virtual Objects" Hummel, J., Wolff, R., Dodiya, J., Gerndt, A., Kuhlen, T. (2012), Joint Virtual Reality Conference of ICAT - EGVE - EuroVR (2012), 17.- 19, Madrid, Spain

Nov 2010	"An Investigation into Navigation in Spatially Immersive Virtual Environments: Music for the purpose of Route-Guidance", Dodiya, J., PhD Thesis, University of Reading, UK
Dec 2008	"Navigation Assistance for Wayfinding in the Virtual Environments: Taxonomy and a Survey", Dodiya, J. and Alexandrov, V. 18th International Conference on Artificial Reality and Telexistence, December 1-3, 2008, Yokohoma, Japan
Oct 2008	"Use of Auditory cues for Wayfinding Assistance in Virtual Environment – Music aids Route Decision", Dodiya, J. and Alexandrov, V. 15th ACM Symposium on Virtual Reality Software and Technology, Bordeaux, France
Oct 2007	"Perspectives on potential of sound in Virtual Environments", Dodiya. J and Alexandrov. V, IEEE International Workshop on Haptic Audio Visual Environments and their Applications, Ontario, Canada
May 2005	"VR as a Training & Evaluation Tool for Helicopter Winch Operator: Potential and Usefulness", Dodiya, J., University of Reading, UK, University of Salford, UK , MSc Thesis
Mar 2002	"Sales Management System", Dodiya, J., Bachelors Thesis, Sardar Patel University, India

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