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Univ.- Prof. Dr.- Ing. Kai- Dietrich Wolf

Head of the Institute

Tel.: +49 (0)202/93322-0

e- Mail: [wolf\(at\)iss.uni-wuppertal.de](mailto:wolf(at)iss.uni-wuppertal.de)

CV

Kai- Dietrich Wolf studied mechanical engineering and applied mechanics at the Technical University of Darmstadt and at UC Berkeley in California as DAAD scholar. He received his doctorate in applied mechanics from Technical University of Darmstadt. He worked on the modeling and application of piezoelectric ceramics and actuators in vibration engineering and the reliability of such systems as visiting scholar, e.g. at the Technion in Israel and at Stanford University. In a spin- off company of Siemens AG, Dr. Wolf led the research activities for the market introduction of small piezoelectric drives suitable for mass production. He led the department "System Reliability and Machine Acoustics" of TU Darmstadt, which is in close cooperation with the Fraunhofer Institute for Structural Durability and System Reliability, on behalf of the chair holder. In 2009, Dr. Wolf was appointed full professor for Mechatronics and Head of the Institute for Security Systems at University of Wuppertal. His current research focuses on fundamentals of risk metrics (including physical, cyber and safety), physical security analysis of critical infrastructures as well as the application of innovative technologies for modern access control systems. Prof. Wolf chairs the Expert Committee 512 "Safety and Security" and is co- chair of the advisory board "Safety and Reliability" of the Association of German Engineers (Verein Deutscher Ingenieure).

Publications

Conference contributions and magazine articles

vom Stein, M., Hoppe, M., Sommer, M., Wolf, K.- D.: *Measuring the spatial Acuity of vibrotactile Stimuli: A new Approach to Determine Universal and Individual Thresholds*. In: Elsevier: Displays (September 2023); doi: [https:// doi.org/10.1016/ j.displa.2023.102546](https://doi.org/10.1016/j.displa.2023.102546).

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Demmer, T., Kahlen, J., Lichte, D., Wolf, K.- D. *On the Use of Control Theory to Enhance Systems Towards Resilience*. In: Proceedings of the 33rd European Safety and Reliability Conference (ESREL 2023, Southampton, United Kingdom, 03.09. – 08.09.2023). Ed. by Mário P. Brito, Terje Aven, Piero Baraldi, Marko Cépin und Enrico Zio, doi: 10.3850/978-981-18-8071-1_P434- cd.

Termin, T., Lichte, D., Wolf, K.- D. *Risk Adjusting of Scoring- based Metrics in Physical Security Assessment*. In: Proceedings of the 33rd European Safety and Reliability Conference (ESREL 2023, Southampton, United Kingdom, 03.09. – 08.09.2023). Ed. by Mário P. Brito, Terje Aven, Piero Baraldi, Marko Cépin und Enrico Zio, doi: 10.3850/978-981-18-8071-1_P011- cd.

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- Demmer, T., Kahlen, J., Lichte, D., Wolf, K.- D. *Towards the Prediction of Resilience: An Equation- based Resilience Representation*. In: Proceedings of the 32nd European Safety and Reliability Conference (Dublin, Ireland, 28.08. – 01.09.2022). Ed. by Maria Chiara Leva, Edoardo Patelli, Luca Podofillini, Simon Wilson. ISBN: 978-981-18-5183-4, doi:10.3850/978-981-18-5183-4_R23-04-456- cd.
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Books and book contributions

Lichte, D., Wolf, K.- D.: - *Quantitative Analyse der Vulnerabilität am Beispiel Verkehrsflughafen*. In: acatech DISKUSSION; Beiträge zu einer Systemtheorie Sicherheit, S. 121– 132, Herbert Utz Verlag, München, 22.10.2018, ISBN 978-3-8316-4624-1.

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Patents

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Expert activities

- Alexander von Humboldt - Foundation
- Journal of Smart Materials and Structures

Memberships

- ESRA - Chair Technical Committee "Decision Making under Uncertainty"
- VDI - GPP FA 512 - Chair of VDI technical committee "Synthesis of Safety und Security"
- VDI - GPP FB5 Advisory board "Safety and Reliability"
- Advisory committee member TÜV NORD CERT GmbH (certifying bodies)
- 2012 - 2017: Committee Chair of "Innosecure",
Congress with exhibition for innovations in security systems // security technologies



Contact

Institute for security systems

University of Wuppertal
Institute for security systems (ISS)
Talstr. 71
42551 Velbert

T: +49 (0)2051/93322-0
Q: +49 (0)2051/93322-29

[info\(at\)iss.uni-wuppertal.de](mailto:info(at)iss.uni-wuppertal.de)

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