



19<sup>th</sup> International Conference on Advanced  
Computational Engineering and Experimenting  
29 JUNE – 3 JULY 2026 | RHODES, GREECE

## SHORT BIO:

### **Prof. Dr.-Ing. habil. Detlef Kuhl**

University Professor for Mechanics and Dynamics  
University of Kassel, Germany

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#### Professional Experience

University of Kassel, Department of Civil and Environmental Engineering  
2007 – present

- Head of the Chair of Mechanics and Dynamics
- Academic Director of:
  - Online Master in Wind Energy Systems
  - Online Diploma of Advanced Studies in Autonomous Wind Energy Production and Supply
  - Online Diploma of Basic Studies in Site-Adapted Transformation Technologies in the Global South

Vietnamese-German University  
2011 – present

- Guest Lecturer in Computational Dynamics
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#### Education

- Habilitation in Structural Mechanics, Ruhr University Bochum, Germany (1998–2004)
  - Ph.D. in Civil Engineering and Geodesy, University of Stuttgart, Germany (1992–1996)
  - Diploma in Aerospace Engineering, University of Stuttgart, Germany (1985–1992)
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## Selected Publications

- Masarczyk, D., Kuhl, D. (2024). Sustainability in bridge design—investigation of the potential of topology optimization and additive manufacturing on a model scale. PAMM, DOI: 10.1002/pamm.202400147
- Masarczyk, D., Kuhl, D. (2023). Topology optimization considering self-weight. PAMM, DOI: 10.1002/pamm.202300258
- Descher, S., Krooß, P., Wolf, S., Kuhl, D. (2023). Latent Heat Effects in Inductive Heating of Shape Memory Alloy Fibers. PAMM, DOI: 10.1002/pamm.202300300
- Descher, S., Krooß, P., Kuhl, D., Wetzel, A., Wolf, S. (2023). Internal Prestressing of Ultra-High Performance Concrete Using Shape Memory Fibers. PAMM, DOI: 10.1002/pamm.202200253
- von Boyneburgk, C.L., Zarges, J.-C., Kuhl, D., Heim, H.-P. (2023). Mechanical Characterization and Simulation of Wood Textile Composites supported by Digital Image Correlation. Composites Part C, DOI: 10.1016/j.jcomc.2023.100370
- Gerland, F., Schomberg, T., Kuhl, D., Wünsch, O. (2021). Flow and Fiber Orientation of Fresh Fiber Reinforced Concrete. PAMM, DOI: 10.1002/pamm.202100109
- Schröder, B., Kuhl, D. (2021). Fully Implicit Runge-Kutta Schemes for Ideal Elastoplasticity. PAMM, DOI: 10.1002/pamm.202100025
- Schröder, B., Kuhl, D. (2021). Measuring the Time Discretization Error in Linear Elasticity. PAMM, DOI: 10.1002/pamm.202000025