

**Andrea Walther – Humboldt University of Berlin, Germany**

<b>Talk title</b>	Adjoint-based optimization for industrial applications
<b>Biography</b>	<p><a href="#">Andrea Walther</a> studied business mathematics at the Universität Bayreuth and got her PhD from Technical University Dresden in 1999, from where she also received her habilitation in 2008. In 2009, she became professor for Mathematics and its applications at the Universität Paderborn. Since October 2019, Andrea Walther is MATH+ Professor for Mathematical Optimization at the Humboldt-Universität zu Berlin. Her research interests are in the fields of nonlinear optimization with a focus on adjoint-based approaches for applications from industry, algorithmic differentiation (AD) to provide efficient and exact sensitivity and adjoint information, and non-smooth optimization. Her work on AD includes for example one text book on AD and the development of the AD-tool ADOL-C.</p> <p>Andrea Walther is member of the executive board of the Association of Applied Mathematics and Mechanics (GAMM) and convenor of the association European Women in Mathematics.</p>