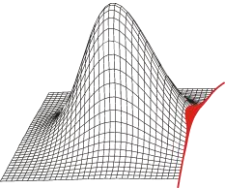


Agenda



Thursday, September 29, 2022

19:00 Dinner at Augustiner an der Frauenkirche

Friday, September 30, 2022

08:30–08:45 *Welcome; R. Mailach, Technische Universität Dresden*

08:45–09:15 „Robust Sensitivity Analysis using Shapley Values “
A. Prots, Technische Universität Dresden

09:15–09:45 “Development of a deterministic centrifugal compressor model to be used for aerodynamic and structural improvements, mapping of manufacturing deviations and adjustments to the manufacturing process“
P. Schwichtenberg, FFT Deutschland

09:45–10:15 “Design of Impact Experiments for Polycarbonate Vision Panels – Models, Limitations of Measurement and Proposals for Aging Period and Sample Size“
H. Mödden, German Machine Tool Builders’ Association, VDW

10:15–10:30 *Coffee break*

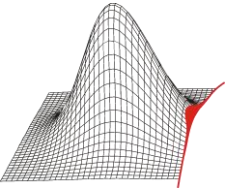
10:30–11:00 “Probabilistic design strategy for transiently stressed turbine components“
E. Emmrich, Technische Universität Dresden

11:00–11:30 „Bayesian Aerothermal Sensor Assessments: Averaging, Transfer Learning, and Anomaly Detection “
P. Seshadri, Imperial College London

11:30–12:00 “A Machine Learning Approach for Probabilistic Evaluation of Finite Element Analysis“
F. Diermeier, Technische Universität Dresden

12:00–13:00 *Lunch break*

Agenda



Friday, September 30, 2022

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|-------------|---|-------------|--|
| 13:00–13:30 | “Thermodynamic Optimization of the cooling system of a high pressure turbine blade”
B. Fiedler, MTU Aero Engines AG | 14:45–15:15 | “Blade Envelopes: Overview and Challenges”
P. Seshadri, Imperial College London |
| 13:30–14:00 | “Robustness Assessment of a Jet Engine Secondary Air System under imprecise Probabilities”
N. Ludwig, Technical University of Munich | 15:15–15:45 | „Compressor Blist Manufacturing Geometrical Variability Digital Twin for Aeroelastic Uncertainty Quantification “
M. Gambitta, Brandenburg University of Technology |
| 14:00–14:30 | “Probabilistic CFD Analysis of a High-Pressure Compressor under Consideration of Manufacturing and In-Service Variability”
L. Schlüter, Technische Universität Dresden | 15:45–16:15 | “Parameterization and CFD-based modelling of Alicona-measured roughness from HPC in-service blades”
I. Vasilopoulos, Technische Universität Dresden |
| 14:30–14:45 | <i>Coffee break</i> | 16:15 | <i>Closing of the workshop; R. Mailach; Technische Universität Dresden</i> |