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professorship at the Warsaw University of Technology, and long-standing research roles within ILK. Prof. Gude has been actively involved in major research initiatives, including the DFG Transregional Collaborative Research Centres TRR 285 and TRR 402, and has served in leading roles within DRESDEN-concept and several national scientific committees. He is also Director of the Rolls-Royce University Technology Centre Dresden and has coordinated multiple large-scale research programs on resource-efficient lightweight structures and advanced materials.