

CELEST Member Short Profile



Karsten Urban



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Since 2005, Karsten Urban has been a full professor for Numerical Mathematics at Ulm University as well as director of the Institute for Numerical Mathematics. Since 2006, he is also the director of the Ulm Scientific Computing Center (Ulmer Zentrum für Wissenschaftliches Rechnen, UZWR). Before that, he finished his PhD and habilitation at RWTH Aachen and became associate professor at Ulm University in 2002. The research of Karsten Urban is mainly in the field of numerical methods for partial differential equations (PDEs) including image/signal processing, model order reduction and numerical optimization. He has applied such method in many industrial cooperations. Recently he also worked in the mathematical analysis of and numerical methods for data science and machine learning.

He acts as Dean of Studies for Computational Science and Engineering (CSE), won the teaching price of the state of Baden-Württemberg 2005, is editor (in chief) of several journals and since 2023 president of the International Association for Applied Mathematics and Mechanics (GAMM).

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Research areas

Numerical mathematics and scientific computing, Numerical solution of PDEs and numerical optimization, Reduced basis methods, Application of multiscale methods for the numerical simulation of PDEs, Partial differential equations from fluid mechanics

Lab equipment (at MZE and AOC, campus south of KIT)

n/a

Karsten Urban @ institute	Link institute	Link lab equipment
https://www.uni-ulm.de/mawi/institut-fuer-numerische-mathematik/institut/mitarbeiter/prof-dr-karsten-urban/	https://www.uni-ulm.de/mawi/institut-fuer-numerische-mathematik/	n/a

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