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Numerical Software

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Proceedings of the 3rd Dune User Meeting (2015)

Edited by Markus Blatt, Bernd Flemisch, and Oliver Sander

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Dune, the Distributed and Unified Numerics Environment, has been under continuous development for more than 13 years. Several European institutions participate in this development, and over time, a substantial user community has evolved. In order to establish and foster personal contacts within the community as well as between users and developers, a first Dune User Meeting was held in Stuttgart in 2010, followed by a second one that took place in 2013 in Aachen. In 2015, the third Dune User Meeting was held in Heidelberg from 28th to 29th of September. More than 30 users and developers from five European countries attended, presented Dune-related work and engaged in lively discussions. Ten presentations resulted in contributions to these proceedings.

About the Editors

Markus Blatt is an independent consultant and entrepreneur. As an applied mathematician he helps his customers developing, improving, and employing custom simulation software based upon open source and DUNE in particular.

After completing his PhD in applied mathematics, **Bernd Flemisch** turned to the engineering sciences. He is currently associate professor in the Department of Hydromechanics and Modelling of Hydrosystems at the University of Stuttgart. His research interests encompass computational models for porous media flow, transport and deformation phenomena, model coupling and decoupling as well as advanced discretization and solution techniques.

Oliver Sander is professor for numerical mathematics at the Technische Universität Dresden. He investigates and develops simulation methods for problems in mechanics, like contact and fracture mechanics, and plasticity.

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