

1. Record Nr.	UNINA9910159388403321
Titolo	High Performance Computing in Science and Engineering '16 : Transactions of the High Performance Computing Center, Stuttgart (HLRS) 2016 // edited by Wolfgang E. Nagel, Dietmar H. Kröner, Michael M. Resch
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-47066-3
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (X, 678 p. 368 illus., 310 illus. in color.)
Disciplina	004
Soggetti	Computer mathematics Mathematical physics Applied mathematics Engineering mathematics Chemistry, Physical and theoretical Computer simulation Computer science—Mathematics Computational Science and Engineering Theoretical, Mathematical and Computational Physics Mathematical and Computational Engineering Theoretical and Computational Chemistry Simulation and Modeling Mathematical Applications in Computer Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book presents the state-of-the-art in supercomputer simulation. It includes the latest findings from leading researchers using systems from the High Performance Computing Center Stuttgart (HLRS) in 2016. The reports cover all fields of computational science and engineering ranging from CFD to computational physics and from chemistry to computer science with a special emphasis on industrially relevant

applications. Presenting findings of one of Europe's leading systems, this volume covers a wide variety of applications that deliver a high level of sustained performance. The book covers the main methods in high-performance computing. Its outstanding results in achieving the best performance for production codes are of particular interest for both scientists and engineers. The book comes with a wealth of color illustrations and tables of results.
