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Nota di contenuto	Command Horizons: Coalescing Data Dependencies while Maintaining Asynchronicity -- Extending Hedgehog's dataflow graphs to multi-node GPU architectures -- Scheduling Many-task Applications on Multi-clouds and Hybrid Clouds -- Framework for Extensible, Asynchronous Task Scheduling (FEATS) in Fortran -- Scalability of Gaussian Processes Using Asynchronous Tasks: A Comparison Between HPX and PETSc -- Shared memory parallelism in Modern C++ and HPX.
Sommario/riassunto	This book constitutes the proceedings of the Workshop on Asynchronous Many-Task Systems and Applications 2023 in Baton Rouge, LA, USA, February 2023. The workshop present the advantages and challenges of task-based programming on modern and future HPC systems. The 6 full papers included in this volume were carefully reviewed and selected from 7 submissions.