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Nota di contenuto	Fourth International Workshop on OpenMP IWOMP 2008 -- A Microbenchmark Study of OpenMP Overheads under Nested Parallelism -- CLOMP: Accurately Characterizing OpenMP Application Overheads -- Detection of Violations to the MPI Standard in Hybrid OpenMP/MPI Applications -- Early Experiments with the OpenMP/MPI Hybrid Programming Model -- First Experiences with Intel Cluster OpenMP -- Micro-benchmarks for Cluster OpenMP Implementations: Memory Consistency Costs -- Incorporation of OpenMP Memory Consistency

into Conventional Dataflow Analysis -- STEP: A Distributed OpenMP for Coarse-Grain Parallelism Tool -- Evaluation of OpenMP Task Scheduling Strategies -- Extending the OpenMP Tasking Model to Allow Dependent Tasks -- OpenMP Extensions for Generic Libraries -- Streams: Emerging from a Shared Memory Model -- On Multi-threaded Satisfiability Solving with OpenMP -- Parallelism and Scalability in an Image Processing Application -- Scheduling Dynamic OpenMP Applications over Multicore Architectures -- Visualizing the Program Execution Control Flow of OpenMP Applications.

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## Sommario/riassunto

OpenMP is a widely accepted, standard application programming interface (API) for high-level shared-memory parallel programming in Fortran, C, and C++. Since its introduction in 1997, OpenMP has gained support from most high-performance compiler and hardware vendors. Under the direction of the OpenMP Architecture Review Board (ARB), the OpenMP specification has evolved, including the recent release of Specification 3.0. Active research in OpenMP compilers, runtime systems, tools, and environments drives its evolution, including new features such as tasking. The community of OpenMP researchers and developers in academia and industry is united under cOMPunity ([www.compunity.org](http://www.compunity.org)). This organization has held workshops on OpenMP around the world since 1999: the European Workshop on OpenMP (EWOMP), the North American Workshop on OpenMP Applications and Tools (WOMPAT), and the Asian Workshop on OpenMP Experiences and Implementation (WOMPEI) attracted annual audiences from academia and industry. The International Workshop on OpenMP (IWOMP) consolidated these three workshop series into a single annual international event that rotates across the previous workshop sites. The first IWOMP meeting was held in Eugene, Oregon, USA. IWOMP 2006 took place in Reims, France, and IWOMP 2007 in Beijing, China. Each workshop drew over 60 participants from research and industry throughout the world. IWOMP 2008 continued the series with technical papers, panels, tutorials, and OpenMP status reports. The first IWOMP workshop was organized under the auspices of cOMPunity.

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