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   Computers
   Computer science—Mathematics
   Applied mathematics
   Engineering mathematics
   Computer Systems Organization and Communication Networks
   Science, Humanities and Social Sciences, multidisciplinary
   Software Engineering/Programming and Operating Systems
   Theory of Computation
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   Nota di contenuto   Invited Talks -- Topic 1: Support Tools and Environments -- Topic 2: Performance Evaluation and Prediction -- Topic 3: Scheduling and Load Balancing -- Topic 4: Compilers for High Performance -- Topic 5: Parallel and Distributed Databases, Data Mining, and Knowledge Discovery -- Topic 6: Grid Computing and Middleware Systems -- Topic 7: Applications on High-Performance Computers -- Topic 8: Parallel Computer Architecture and Instruction-Level Parallelism -- Topic 9: Distributed Algorithms -- Topic 10: Parallel Programming: Models, Methods, and Programming Languages -- Topic 11: Numerical

Algorithms and Scientific Engineering Problems -- Topic 12: Architectures and Algorithms for Multimedia Applications -- Topic 13: Theory and Algorithms for Parallel Computation -- Topic 14: Routing and Communication in Interconnection Networks -- Topic 15: Mobile and Ubiquitous Computings -- Topic 16: Distributed Systems and Distributed Multimedia -- Topic 17: Peer-to-Peer Computing -- Topic 18: Demonstrations of Parallel and Distributed Computing -- Late Paper.

Sommario/riassunto	Euro-ParConferenceSeries The European Conference on Parallel Computing (Euro-Par) is an international conference series dedicated to the promotion and advancement of all aspects of parallel and distributed computing. The major themes fall into the categories of hardware, software, algorithms, and applications. This year, new and interesting topicswereintroduced,likePeer-to-PeerComputing, DistributedMultimedia- stems, and Mobile and Ubiquitous Computing. For the ?rst time, we organized a Demo Session showing many challenging applications. The general objective of Euro-Par is to provide a forum promoting the de- lopment of parallel and distributed computing both as an industrial technique and an academic discipline, extending the frontiers of both the state of the art and the state of the practice. The industrial importance of parallel and dist- buted computing is supported this year by a special Industrial Session as well as a vendors' exhibition. This is particularly important as currently parallel and distributed computing is evolving into a globally important technology; the b- zword Grid Computing clearly expresses this move. In addition, the trend to a - bile world is clearly visible in this year's Euro-Par. ThemainaudienceforandparticipantsatEuro-Pararesearchersinaca- mic departments, industrial organizations, and government laboratories. Euro- Par aims to become the primary choice of such professionals for the presentation of new results in their speci? c areas. Euro-Par has its own Internet domain with a permanent Web site where the history of the conference series is described: http: //www.euro-par.org. The Euro-Par conference series is sponsored by the Association for Computer Machinery (ACM) and the International Federation for Information Processing (IFIP).