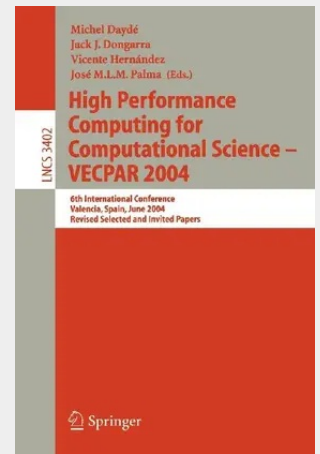


High Performance Computing for Computational Science - VECPAR 2004

6th International Conference, Valencia, Spain, June 28-30, 2004, Revised Selected and Invited Papers

VECPAR is a series of international conferences dedicated to the promotion and advancement of all aspects of high-performance computing for computational science, as an industrial technique and academic discipline, extending the frontier of both the state of the art and the state of practice. The audience for and participants in VECPAR are seen as researchers in academic departments, government laboratories and industrial organizations. There is now a permanent website for the series, <http://vecpar.fe.up.pt>, where the history of the conferences is described. The sixth edition of VECPAR was the first time the conference was celebrated outside Porto – at the Universidad Politécnica de Valencia (Spain), June 28–30, 2004. The whole conference programme consisted of 6 invited talks, 61 papers and 26 posters, out of 130 contributions that were initially submitted. The major themes were divided into large-scale numerical and non-numerical simulations, parallel and grid computing, biosciences, numerical algorithms, data mining and visualization. This postconference book includes the best 48 papers and 5 invited talks presented during the three days of the conference. The book is organized into 6 chapters, with a prominent position reserved for the invited talks and the Best Student Paper. As a whole it appeals to a wide research community, from those involved in the engineering applications to those interested in the actual details of the hardware or software implementations, in line with what, in these days, tends to be considered as computational science and engineering (CSE).

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