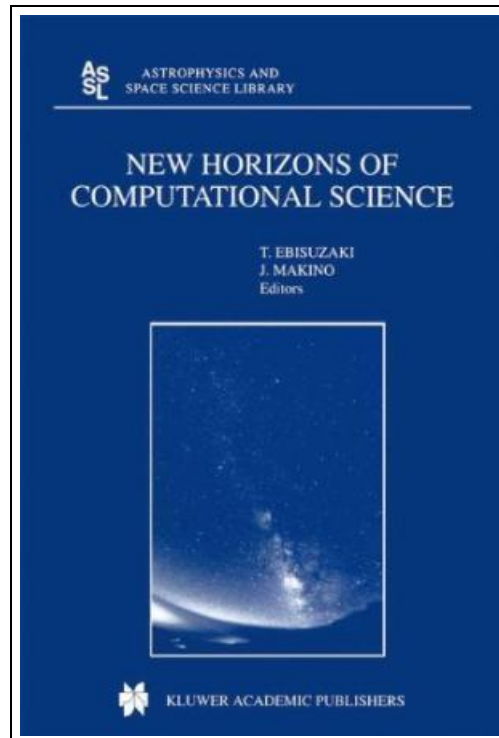


## New Horizons of Computational Science: Proceedings of the International Symposium on Supercomputing Held in Tokyo, Japan, September 13, 1997



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### **Reviews**



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*(Bernardo Feeney Jr.)*

## NEW HORIZONS OF COMPUTATIONAL SCIENCE: PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON SUPERCOMPUTING HELD IN TOKYO, JAPAN, SEPTEMBER 1 3, 1997



Springer. Hardcover. Book Condition: New. Hardcover. 312 pages. Dimensions: 9.6in. x 6.5in. x 0.8in. The International Symposium on Supercomputing - New Horizon of Computational Science was held on September 1-3, 1997 at the Science Museum in Tokyo, to celebrate 60-year birthday of Professor Daiichiro Sugimoto, who has been leading theoretical and numerical astrophysics for 30 years. The conference covered exceptionally wide range of subjects, to follow Sugimoto's accomplishments in many fields. On the first day we had three talks on stellar evolution and six talks on stellar dynamics. On the second day, six talks on special-purpose computing and four talks on large-scale computing in Molecular Dynamics were given. On the third and the last day, three talks on dedicated computer on Lattice QCD calculations and six talks on present and future of general-purpose HPC systems were given. In addition, some 30 posters were presented on various subjects in computational science. Instellar evolution, D. Arnett (Univ. of Arizona) gave an excellent talk on the recent development in three-dimensional simulation of Supernova, in particular on quantitative comparison between different techniques such as grid-based methods and SPH (Smoothed Particle Hydrodynamics). Y. Kondo (NASA) discussed recent advance in the modeling of the evolution of binary stars, and I. Hachisu (Univ. of Tokyo) discussed Rayleigh-Taylor instabilities in supernovae (contribution not included). Instellar dynamics, P. Hut (IAS) gave a superb review on the long-term evolution of stellar system, J. Makino (Univ. of Tokyo) described briefly the results obtained on GRAPE-4 special-purpose computer and the follow up project, GRAPE-6, which is approved as of June 1997. GRAPE-6 will be completed by year 2001 with the peak speed around 200 Tflops. R. Spurzem (Rechen-Inst. ) and D. Heggie (Univ. of Edinburgh) talked on recent advance in the study of star clusters, and E. Athanassoula (Marseille Observatory) described the work done using their GRAPE-3 systems. S. Ida (Tokyo Inst. of Technology) described the result of the simulation of the formation of Moon. The first talk of the second day was given by F-H. Hsu of the IBM T. J. Watson Research center, on Deep Blue, the special-purpose computer for Chess, which, for the first time in the history, won the match with the best human player, Mr. Gary Kasparov (unfortunately, Hsu's contribution is not included in this volume). Then A. Bakker of Delft Inst. of Technology looked back his 20 years of developing special-purpose computers for molecular dynamics and simulation of spin systems. J. Arnold gave an overview of the emerging new field of reconfigurable computing, which falls in between traditional general-purpose computers and special-purpose computers. S. Okumura (NAO) described the history of ultra-high-performance digital signal processors for radio astronomy. They have built a machine with 20 GaPS performance in early 80s, and keep improving the speed. M. Taiji (ISM) told on general aspects of GRAPE-type systems, and T. Narumi (Univ. of Tokyo) the 100-Tflops GRAPE-type machine for MD calculations, which will be finished by 1999. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Hardcover.

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