



## New Horizons of Computational Science: Proceedings of the International Symposium on Supercomputing Held in Tokyo, Japan, September 1-3, 1997

By -

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 an 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 computers 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. In stellar 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). In stellar dynamics, P. Hut (IAS) gave a superb review on the long-term evolution of stellar system. J. Makino (Univ. of Tokyo) described briefly

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