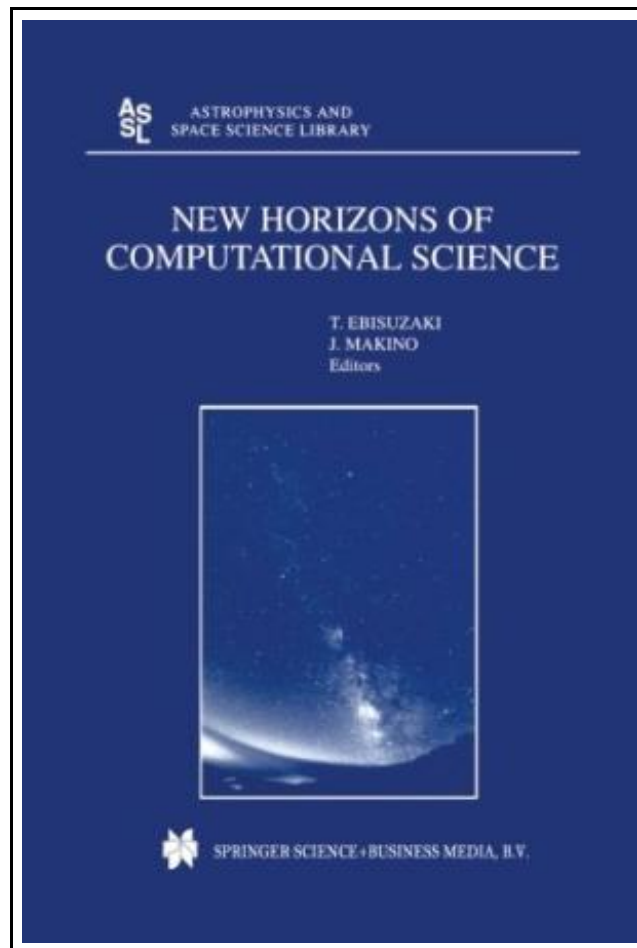# New Horizons of Computational Science Proceedings of the International Symposium on Supercomputing held in Tokyo, Japan, September 1 - 3, 1997 Astrophysics and Space Science Library

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Reviews

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me).

(Myrl Hintz)

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Springer. Paperback. Book Condition: New. Paperback. 312 pages. Dimensions: 9.4in. x 6.3in. x 0.8in.The International Symposium on Supercomputing - New Horizon of Computational Science was held on September 1-3, 1997 at the Science MuseuminTokyo, tocelebrate60-yearbirthdayofProfessorDaiichiroSug imoto, who hasbeenleadingtheoreticalandnumericalastrophysicsfor 30 years. The conference coveredexceptionally wide range ofsubjects, to follow Sugimotosaccomplishmentsinmanyfields. Onthefirstdaywehadthree talksonstellarevolutionandsixtalksonstellardynamics. Onthesecond day, six talks on special-purpose computingand four talks on large-scale computing in MolecularDynamicswere given. Onthethirdandthelast day, threetalks on dedicatedcomputerson LatticeQCDcalculationsand sixtalksonpresentandfutureofgeneral-purposeHPCsystemsweregiven. Inaddition, some30posterswerepresentedonvarioussubjectsincompu tationalscience. Instellarevolution, D. Arnett (Univ. ofArizona) gaveanexcellenttalk on the recent development in three-dimensionalsimulation ofSupernova, inparticularonquantitativecomparisonbetweendifferenttechniquessuch asgrid-basedmethodsandSPH (SmoothedParticleHydrodynamics). Y. Kondo (NASA) discussedresentadvanceinthemodelingoftheevolution ofbinarystars, and1. Hachisu(Univ. ofTokyo)discussedRayleigh-Taylor instabilitiesinsupernovae(contributionnotincluded). Instellardynamics, P. Hut(IAS)gaveasuperbreviewonthelong-term evolution ofstellarsystem, J. Makino (Univ. ofTokyo) described briefly theresultsobtainedonGRAPE-4special-purposecomputerandthefollow up project, GRAPE-6, whichisapprovedas ofJune 1997. GRAPE-6will be completed by year 2001 with the peak speed around 200 Tflops. R. Spurzem (Rechen-Inst.) and D. Heggie (Univ. of Edinburgh) talked on recentadvanceinthestudyofstarclusters, andE. Athanassoula(Marseille Observatory) describedthe work doneusingtheirGRAPE-3 systems. S. Ida (TokyoInst. ofTechnology) describedthe result ofthe simulationof theformationofMoon. Thefirst talkoftheseconddaywas given by F-H. Hsu oftheIBMT. J. Watson Research center, on Deep Blue, the special-purpose computer for Chess, which, forthefirst timeinthehistory, wonthematchwithhe besthumanplayer, Mr. GaryKasparov(unfortunately, Hsuscontribution isnot included in this volume). Then A. Bakker of Delft Inst. of Tech nology looked back his 20 years ofdevelopingspecial-purpose computers formoleculardynamicsandsimulationofspinsystems. J. Arnoldgavean overviewoftheemergingnewfieldofreconfigurablecomputing, whichfalls inbetweentraditionalgeneral-purposecomputersandspecial-purposecom puters. S. Okumura(NAO)describedthehistoryofultra-high-performance digital signalprocessors for radio astronomy. They havebuilt a machine with 20GaPS performance in early 80s, and keep improvingthe 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, whichwillbefinished by 1999. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.

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