

PUBLICATIONS

Hans Peter Zima

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Books

4. Zima,H.P., Chapman,B.M.: **Supercompilers for Parallel and Vector Computers**
ACM Press Frontier Series/Addison-Wesley (1990); Japanese Translation, Ohmsha (1995)
Digital Reprint, Antony Rowe Ltd., Eastbourne (2002)
3. Zima,H.P.: **Compiler Construction II : Synthesis and Optimization** (in German)
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2. Zima,H.P.: **Compiler Construction I: Analysis** (in German)
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First printing 1982, second printing 1989
1. Zima,H.P.: **Operating Systems: Parallel Processes** (in German)
Reihe Informatik Band 20, Bibliographisches Institut, Mannheim
First printing 1976, second printing 1980, third printing 1986

Journal Publications

34. Zima,H.P.,James,M.L.,and Springer,P.L.: Fault-Tolerant On-Board Computing for Robotic Space Missions
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33. Kennedy,K., Koelbel,C., and Zima,H.P.: The Rise and Fall of High Performance Fortran
Communications of the ACM, Vol.54, No. 11, pp.74-82, 2011
32. James,M., Shapiro, A.A., Springer,P.L., and Zima,H.P.: Adaptive Fault Tolerance for Scalable Cluster Computing in Space
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31. Chamberlain,B.L., Callahan,D., and Zima,H.P.: Parallel Programmability and the Chapel Language
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27. Mehrotra,P. and Zima,H.P.: High Performance Fortran for Aerospace Applications.
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25. Laure,E.,Mehrotra,P., and Zima,H.P.: Opus: Heterogeneous Computing With Data Parallel Tasks
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24. Laure,E.,Haines,M.,Mehrotra,P., and Zima,H.P.: On the Implementation of the Opus Coordination Language
Concurrency Practice and Experience Vol.12,No.4,pp.227-249, April 2000.
23. Zima,H.P. and Di Martino,B.: New Trends in Programming and Execution Models for Parallel Architectures, Heterogeneously Distributed Systems and Mobile Computing.
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22. Di Martino,B. and Zima,H.P.: Support of Automatic Parallelization with Concept Comprehension
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21. Mehrotra,P.,Van Rosendale,J.,Zima,H.P: Language Support for Multidisciplinary Applications
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20. Mehrotra,P.,Van Rosendale,J.,Zima,H.P.: High Performance Fortran: History, Status and Future
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19. Ujaldon,M., Zapata,E.L., Chapman,B.M., Zima,H.P.: Vienna Fortran/HPF Extensions for Sparse and Irregular Problems and Their Compilation
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15. Zima,H.P.: High Performance Languages for Parallel Computing
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97. Zima,H.P. and Nikora,Allen: Fault Tolerance
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96. James,M., Springer,P. and Zima,H.P.: Adaptive Fault Tolerance for Many-Core Based Space-Borne Computing
Distinguished Paper, In: *P.D'Ambra,M.Guarracino, and D.Talia (Eds.): Proc.Sixteenth International European Conference on Parallel and Distributed Computing (Euro-Par 2010), Part II*, pp. 260-274, LNCS6272, Springer-Verlag, Heidelberg,2010

95. Zima,H.P.: High-Level Specification of Data Distribution for Many-Core Based Parallel Systems
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In: *Alexander V.Veidenbaum and Atsushi Kubota(Editors): Proc.11th International Workshop on Innovative Architectures for Future Generation High-Performance Processors and Systems (IWIA 2008)*,pp.74-83, IEEE Computer Society, 2009
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88. James,M. and Zima,H.P.: An Introspection Framework for Fault Tolerance in Support of Autonomous Space Systems
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82. Zima,H.P.: Programming Models and Languages for High Productivity Computing Systems
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75. Zima, H.P., and Sterling, T.L.: The Gilgamesh Processor-in-Memory Architecture and Its Execution Model
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74. Zima, H.P.: High-Level Programming Support for HPC – The Tradeoff Between Elegance and Performance
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