

ALGORITHM FOR FAST SIMULATIONS OF SPACE–TIME FINITE ELEMENT METHOD

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Keywords: Finite element method, Time–space formulations, h–adaptivity, Multi–frontal solver, Orderings

Abstract. *In this paper we consider element partition trees for multi–frontal solver algorithms utilized in space–time finite element method. The element partition trees are utilized for generating the ordering for the multi–frontal solver algorithm. In particular, we consider three or four dimensional finite element method grids where two or three dimensions represent space and one additional dimension represents time. Additionally, we consider computational grids resulting from h–adaptive algorithms, namely grids refined towards point, edge, face or hyperface singularity. We perform numerical experiments and compare our method with alternative state of the art ordering algorithms available through MUMPS interface.*

Algorithm For Fast Simulations Of Space Time Finite

Daniela Niemeyer



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Algorithms for Fast Simulations of Space-time Adaptive Finite Element Methods Marcin Skotniczny,2023 Scientific and Technical Aerospace Reports ,1995 **ESDA 1996: Nonlinear systems. Advanced energy systems. Advanced simulation technology** ,1996 ACM Transactions on Modeling and Computer Simulation ,1995 Ninth Workshop on Parallel and Distributed Simulation (PADS'95) ,1995 Dissertation Abstracts International ,2008 *The Engineering Index Annual* ,1993 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly **Simulation digest** ,1995 Simulation and Modeling Osman Balci,1994 **Progress of Theoretical Physics** ,1993 **The Finding Guide to AIAA Meeting Papers** American Institute of Aeronautics and Astronautics. Technical Information Service,1996 **Mathematical Reviews** ,2006 *Optical Engineering* ,2001-04 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology **INIS Atomindex** ,1988 High Energy Physics Index ,1990 ICASSP 93 ,1993 International Aerospace Abstracts ,1999 **Journal of Seismic Exploration** ,2009 Energy Research Abstracts ,1994 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **ICASSP 83** ,1983

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