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# Adaptive Computational Methods For Partial Differential Equations

**adaptive methods for the computation of pagerank** - adaptive methods for the computation of pagerank \* sepandar kamvar<sup>1</sup>, taher haveliwala<sup>2</sup>, gene golub<sup>3</sup> <sup>1</sup>scientific computing and computational mathematics, stanford university stanford, ca 94305 [sdkamvar@stanford](mailto:sdkamvar@stanford) <sup>2</sup> department of computer science, stanford university stanford, ca 94305 [taherh@stanford](mailto:taherh@stanford) **applications of self-adaptive computational methods in ...** - applications of self-adaptive computational methods in online learning a. pownuk the university of texas at el paso, el paso, texas, usa 22th joint utep/nmsu workshop on mathematics, **adaptive computational methods for chemically-reacting ...** - adaptive computational methods for chemically-reacting radiative flows jon m. bassi and j. tinsley oden<sup>2</sup> <sup>1</sup> the computational mechanics company. inc.. austin, texas. u.s.a. 2ncom, the university of texas at austin. u.s.a. abstract-in this paper. several new developments in chemically reactive computational fluid **adaptive computational methods - nasa** - adaptive computational methods for aerothermal heating analysis john m. price and j. tinsley oden lockheed missiles & space company, inc. huntsville engineering center huntsville, al 35807 computational mechanics company austin, tx 78751 contract nas1-17894 | may 1988 nsls/ national aeronautics and space administration langley research center **computational method for optimal guidance and control ...** - computational method for optimal guidance and control using adaptive gaussian quadrature collocation miriam e. dennis,\* william w. hager,t and anil v. rao† university of florida, gainesville, florida 32611 doi: 10.2514/1.g003943 a method is described for computational optimal guidance and control using adaptive gaussian quadrature **adaptive numerical and computational methods for ...** - adaptive numerical and computational methods for temperature profiling of a cylindrical nuclear fuel rod n. anand, p. acharya, v. agrawal, s. banerjee, n. parmar, and r. kothari **adaptive computation time for recurrent neural networks** - adaptive computation time for recurrent neural networks alex graves google deepmind gravesa@google abstract this paper introduces adaptive computation time (act), an algorithm that allows recurrent neural networks to learn how many computational steps to take between receiving an input and emitting an output. **solid rocket booster internal flow analysis by highly ...** - over the past three years, the computational mechanics co., inc. has designed and produced a new computational tool for modeling internal flows in solid rocket motors as part of the project "internal flow analysis by highly-accurate adaptive computational methods" (nas8-37682). during the course of this effort several new algorithms for ... **moving mesh methods for computational fluid dynamics** - moving mesh methods for computational fluid dynamics tao tang abstract. in this paper we will discuss a class of adaptive grid methods called moving mesh method (mmm). some recent progress of the moving mesh methods will be reviewed. in particular, we review their applications to computational uid dynamics. contents 1. introduction 1 2 ... **adaptive stepsize numerical methods for solving ordinary ...** - adaptive stepsize numerical methods for solving ordinary differential equations oleg golberg may 19, 2007 1 introduction consider an initial value problem  $y'(x) = f(x,y(x))$ ,  $y(0) = y_0$  (1) to approximate the value  $y(t)$  many numerical algorithms such runge-kutta methods make computations for a set of points chosen on the interval  $[0,t]$ . **computational fluid dynamics adaptive mesh refinement** - computational fluid dynamics adaptive mesh refinement (amr) chombo: a software framework for block-structured amr the chombo package provides a set of tools for implementing finite difference methods for the solution of partial differential equations on **adaptive time-stepping and computational stability** - equations—initial value problems; multistep methods 1 introduction: computational stability the objective of this paper is to investigate the effect of adaptive time-stepping and other algorithmic strategies on what we refer to as the computational stability of an ode solver. all stability **wavefront measurement using computational adaptive optics** - biological materials imaging [4]. computational adaptive optics (cao) is a computational imaging method that modifies the spatial frequency content of the oct data to correct for optical aberrations [5-7]. cao has primarily been used for aberration correction, and it has been demonstrated for imaging of tissues **identification and adaptive control methods for some ...** - the results on estimation and adaptive control of discrete time branching processes that were established mostly by b. bercu. we extend these results to continuous time branching processes in chapter 4. in chapter 5 we present some computational methods along with the simulation 1 **computational adaptive optics for broadband optical ...** - computational adaptive optics for broadband optical interferometric tomography of biological tissue steven g. adiea,b, benedikt w. grafab, adeel ahmada,b, p. scott carneya,b, and stephen a. bopparta,b,c,d,1 abeckman institute for advanced science and technology, and bdepartments of electrical and computer engineering, cbioengineering, and dinternal ...

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