Margenov / Wasniewski / Yalamov

Large-Scale Scientific Computing

Third International Conference, LSSC 2001, Sozopol, Bulgaria, June 6-10, 2001. Revised Papers

Large-scalecomputationsinairpollutionmodeling, – Large-scalecomputationsformechanicalengineeringproblems,and – Numericalmethodsforincompressible?ow. The workshop itself attracted about 80 participants from around the world. Authors from over 15 countries submitted 52 papers, of which 7 were invited, and 45 were contributed. The Fourth International Conference (ICLSSC 2003) willtakeplacein2003. SvetozarMargenov October 2001 JerzyWa´ sniewski PlamenYalamov TableofContents I Invited Papers OptimizingTwo-LevelPreconditionings fortheConjugateGradientMethod. 3 O. AxelssonandI. Kaporin OntheParallelizationoftheSparseGridApproachforDataMining. 22 J. GarckeandM. Griebel JavaCommunicationsforLarge-ScaleParallelComputing. 33 V. GetovandM. Philippsen ContinuousPathBrownianTrajectoriesforDi?usionMonteCarlo viaFirst-andLast-PassageDistributions. 46 J. A. Given,M. Mascagni,andCh. -O. Hwang MultilevelMonteCarloMethods. 58 S. Heinrich IterativeAggregation/DisaggregationMethods forComputingSomeCharacteristicsofMarkovChains. 68 I. MarekandP. Mayer Time-IntegrationAlgorithmsfortheComputerTreatment oftheHorizontalAdvectioninAirPollutionModels. 81 Z. Zlatev II Robust Preconditioning Algorithms MIC(0)PreconditioningofRotatedTrilinearFEMEllipticSystems. 95 I. GeorgievandS. Margenov SobolevSpacePreconditioningforMixedNonlinear EllipticBoundaryValueProblems. 104 J. Kar´atsonandI. Farag´o OnaSchurComplementApproachforSolvingTwo-Level FiniteElementSystems. 113 M. NeytchevaandO. Axelsson VIII III Monte Carlo Methods On-LineStateEstimationofManeuveringObjects bySequentialMonteCarloAlgorithm. 125 D. Angelova,E. Semerdjiev,Tz. Semerdjiev,andP. Konstantinova OntheDyadicDiaphonyoftheSobol'Sequences. 133 E. I. Atanassov AnImprovedMonteCarloAlgorithmforElasticElectronBackscattering fromSurfaces. 141 I. T. Dimov,E. I. Atanassov,andM. K. Durchova StatisticalAlgorithmsforSimulationofElectronQuantumKinetics inSemiconductors–PartI. 149 T. V. GurovandP. A. Whitlock AQuasi-MonteCarloMethodforIntegration withImprovedConvergence. 158 A. Karaivanova,I. Dimov,andS. Ivanovska SolvingSystemsofLinearAlgebraicEquations UsingQuasirandomNumbers.

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