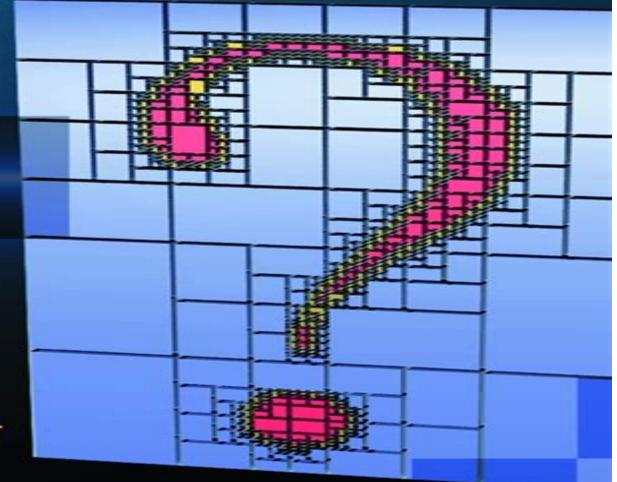


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Luc Jaulin Michel Kieffer Olivier Didrit and Éric Walter





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for PDEs 5th minisymposium on HPC applications in physical sciences 8th minisymposium on high performance computing interval methods 7th workshop on complex collective systems Interval Methods for Solving Nonlinear Constraint Satisfaction, Optimization and Similar Problems Bartłomiej Jacek Kubica, 2019-03-08 This book highlights recent research on interval methods for solving nonlinear constraint satisfaction optimization and similar problems Further it presents a comprehensive survey of applications in various branches of robotics artificial intelligence systems economics control theory dynamical systems theory and others Three appendices on the notation representation of numbers used as intervals endpoints and sample implementations of the interval data type in several programming languages round out the coverage

Introduction to Interval Analysis Ramon E. Moore,R. Baker Kearfott,Michael J. Cloud,2009-01-01 An update on the author s previous books this introduction to interval analysis provides an introduction to INTLAB a high quality comprehensive MATLAB toolbox for interval computations making this the first interval analysis book that does with INTLAB what general numerical analysis texts do with MATLAB

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