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   Nota di contenuto   Method for indoor localization of mobile devices based on AoA and
                        Kalman filtering -- Cross-Validated Sequentially Constructed Multiple
                        Regression -- How to assess multi-population genetic algorithms
                        performance using intuitionistic fuzzy logic -- Perturbation analysis of
                        a nonlinear matrix equation arising in Tree-like stochastic processes --
                        On Two-Way Generalized Nets -- Variational methods for stable time
                        discretization of first-order differential equations -- Numerical
                        solutions of ordinary fractional differential equations with singularities
                        -- Preliminary analysis of the dynamics of multifractal parameters of
                        the Dow Jones Industrial Average -- Testing performance and
                        scalability of the pure MPI model versus hybrid MPI-2/OpenMP model
                        on the heterogeneous supercomputer Avitohol -- Analyses and Boolean
                        operation of 2D polygons -- Ant Colony Optimization Algorithm for
                        Workforce Planning: Inuence of the Algorithm Parameters --

	Convergence of homotopy perturbation method for solving of two-dimensional fuzzy Volterra functional integral equations -- Iterative method for numerical solution of two-dimensional nonlinear Urysohn fuzzy integral equations.
Sommario/riassunto	This book gathers the peer-reviewed proceedings of the 12th Annual Meeting of the Bulgarian Section of the Society for Industrial and Applied Mathematics, BGSIAM'17, held in Sofia, Bulgaria, in December 2017. The general theme of BGSIAM'17 was industrial and applied mathematics, with a particular focus on: high-performance computing, numerical methods and algorithms, analysis of partial differential equations and their applications, mathematical biology, control and uncertain systems, stochastic models, molecular dynamics, neural networks, genetic algorithms, metaheuristics for optimization problems, generalized nets, and Big Data. .