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| Nota di contenuto | A Note on Additive Model Building for Spatial Functional Regression -- Quadratic Programming Problems with Preprocessing and a Diagonally Dominant M-matrix -- Beta Prime Kernel Availability Density Estimation of a Repairable Series System -- Imperfect maintenance of series systems -- Performance Evaluation of a Web services -- Modeling and analysis of Covid'19 patients hospitalization dynamic reliability by a semi-Markovian model -- Combinatorial optimization of banana clean reliance -- Adaptive Refined Descriptive Sampling Algorithm for Dependent -- variables using Iman and Conover method in Monte Carlo simulation -- Linear Control Design for Synchronization of Fractional Predator-Prey -- Systems with Group Defense and Harvesting -- Fractional dynamics of a Cholera model with Atangana-Baleanu operator -- Fractional-order dynamics of a Typhoid epidemic model -- A model of plasmid-bearing, plasmid-free competition in a chemostat -- On a slow-fast SEIRS Model structured in age -- Global |

asymptotic stability for a predator-prey model -- The operating diagram of an SIS model in the chemostat -- On a competition model of two toxin-producing species in the chemostat.

Sommario/riassunto

This volume features selected contributions from participants of the 17th African Conference on Research in Computer Science and Applied Mathematics (CARI 2024), held at the University of Béjaïa, Algeria, from November 23-26, 2024. The topics covered include mathematical modelling, stochastic methods, and related fields.
