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Nota di contenuto	Numerical Analysis of Reacting Flow in a Carbon Monoxide Boiler -- Some Efficient Schemes for Two-stage Gauss Method Ratnam Vigneswaran -- Effect of External Acceleration on the Flow Resistance in a Stenosed Catheterized Artery -- Matrix Induced by Change of Variables in a System of Polynomial Equations -- Varying Iteration Accuracy Using Inexact Conjugate Gradients in Control Problems Governed by Partial Differential Equations -- Dynamics of Hepatitis C Virus with Saturation Incidence Rate -- Some Groups with the Rapid Decay Property -- Köthe – Toeplitz Duals and Matrix Transformations of the Sequence Space bv(p) -- Quasi Class Q Operator -- Common Fixed Points of Two Finite Families of Quasicontractive Type Operators in Normed Spaces -- Simultaneous Test Procedures in Terms of p-value Copulae -- Determining the Long-run Equilibrium Price by the Mean Reversion Process and the Cobweb Model -- Application of Maximal Segmental Score in Genome-wide Association Studies When Raw Data is Unavailable -- Comparison of the Generalized Least Squares F-Test for the Nested Error Regression Model -- Review of Asset Return Distribution and Its Application -- Sampling Moments of

Resamples -- Designing Chain Sampling Plan (ChSP-1) under Lot Quality Protection -- Minimum ATI ChSP – 4 (c1, c2) Plans -- On Compromise Mixed Allocation in Multivariate Stratified Sampling with Random Parameters -- Graphics Lipschitz-Killing Curvatures of the Excursion Sets of Skew Student-t Random Fields -- Optimization of Power Transmission in Clustering Stochastic Networks As a Queuing System -- On the Total Closed Edge-Neighbourhood Graph of a Graph -- Combinatorial Cosmology? Time's Arrow from a Graph Theorist's Point of View.

Sommario/riassunto

This volume presents original research contributed to the 3rd Annual International Conference on Computational Mathematics and Computational Geometry (CMCGS 2014), organized and administered by Global Science and Technology Forum (GSTF). Computational Mathematics and Computational Geometry are closely related subjects, but are often studied by separate communities and published in different venues. This volume is unique in its combination of these topics. After the conference, which took place in Singapore, selected contributions chosen for this volume and peer-reviewed. The section on Computational Mathematics contains papers that are concerned with developing new and efficient numerical algorithms for mathematical sciences or scientific computing. They also cover analysis of such algorithms to assess accuracy and reliability. The parts of this project that are related to Computational Geometry aim to develop effective and efficient algorithms for geometrical applications such as representation and computation of surfaces. Other sections in the volume cover Pure Mathematics and Statistics ranging from partial differential equations to matrix analysis, finite difference or finite element methods, and function approximation. This volume will appeal to advanced students and researchers in these areas.