1. Record Nr. UNISA996466387503316

Titolo Recent developments in stochastic methods and applications : ICSM-5,

Moscow, Russia, November 23-27, 2020, selected contributions //

Albert N. Shiryaev, Konstantin E. Samouylov, Dmitry V. Kozyrev, editors

Pubbl/distr/stampa Cham, Switzerland:,: Springer,, [2021]

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ISBN 3-030-83266-X

Edizione [1st ed. 2021.]

Descrizione fisica 1 online resource (XIII, 360 p. 40 illus., 23 illus. in color.)

Collana Springer Proceedings in Mathematics & Statistics; ; Volume 371

Disciplina 519.2

Soggetti Stochastic analysis

Anàlisi estocàstica

Congressos

Llibres electrònics

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Nota di contenuto PART I: Probability and Statistics, I. Rodionov, On threshold selection

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Sommario/riassunto

Highlighting the latest advances in stochastic analysis and its applications, this volume collects carefully selected and peer-reviewed papers from the 5th International Conference on Stochastic Methods (ICSM-5), held in Moscow, Russia, November 23-27, 2020. The contributions deal with diverse topics such as stochastic analysis, stochastic methods in computer science, analytical modeling, asymptotic methods and limit theorems, Markov processes, martingales, insurance and financial mathematics, queueing theory and stochastic networks, reliability theory, risk analysis, statistical methods and applications, machine learning and data analysis. The 29 articles in this volume are a representative sample of the 87 high-quality papers accepted and presented during the conference. The aim of the ICSM-5 conference is to promote the collaboration of researchers from Russia and all over the world, and to contribute to the development of the field of stochastic analysis and applications of stochastic models.