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Concepts and Recent Advances in Generalized Information Measures and Statistics

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About the ebook

This book contains introductory tutorials suitable for the general reader, together with chapters dedicated to the basic concepts of the most frequently employed information measures or quantifiers and their recent applications to different areas, including physics, biology, medicine, economics, communication and social sciences. The tutorials in this volume are written at a broadly accessible level and readers will have the opportunity to acquire the knowledge necessary to use the information theory tools in their field of interest.

Contents

▶ Heat and Entropy: A Brief History

▶ Essentials of Information Entropy and Related Measures

▶ The Nonadditive Entropy Sq: A Door Open to the Nonuniversality of the Mathematical Expression of the Clausius Thermodynamic Entropy in Terms of the Probabilities of the Microscopic Configurations

▶ What do Generalized Entropies Look Like? An Axiomatic Approach for Complex, Non-Ergodic Systems

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