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Descrizione fisica	1 online resource (737 pages)
Collana	Integrated Science, , 2662-947X ; ; 5
Disciplina	001.4
Soggetti	Medicine—Research Biology—Research Art—Study and teaching Biomedical engineering Philosophy Economic sociology Biomedical Research Creativity and Arts Education Biomedical Engineering and Bioengineering Economic Sociology Interdisciplinarietat Investigació Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction on Integrated Science: Transdisciplinary across the Different Disciplines -- 2 Chaos Theoretical Explanation to Each Development of Evolution Theory, Psychology, Physics, and Philosophy -- 3 Managerial Problems and Cultural Heritage in Information Technology -- 4 On the Essential Unity of Mathematics, Science, and Art: The Justice Evaluation Function and the Golden Number -- 5 Integration of Film Theory and Studies with Neuroscience -- 6 Systems View in Engineering Research -- 7 Molecular Dynamics Simulations: Concept, Methods, and Applications -- 8 The World Big Challenges

Faced by Nanoscience: Examples of How Integrated Science Can Save the World -- 9 The Kaleidoscopic Image as an Intersection between Art and Science: From Microscopic Forms to Cosmological Models -- 10 Disruptions and Competitive Strategies in the Automotive Industry -- 11 Macroeconomics: From Equilibrium Settings to Multi-Agent Worlds -- 12 A Multi-level Perspective to Biosimilars Development: Pathways Towards Incremental Innovation in the Health Bioeconomy -- 13 A 2020s Marketing Taxonomy for Augmented Reality Customer Experience -- 14 Can Viral Marketing Content Spread according to the Rumour Formula? -- 15 Exaptation as a Design Strategy for Resilient Communities -- 16 Ecosystem management and climate-smart agriculture -- 17 A new generation of shrimp aquaculture for sustainability and resilience of future green cities -- 18 Public Understanding of Geoethics Dilemmas: A Case Study on Lithium Exploitation -- 19 Creative Approaches for Mitigating Environmental Challenges: A Cosmopolitan Localism Perspective -- 20 Landscape: A Holistic Approach to Space -- 21 Integrated Approaches to Land Management -- 22 Archaeology as an Interdisciplinary Science at the Cross-Roads of Physical, Chemical, Biological, and Social Sciences: New Perspectives and Research -- 23 Biomimicry in Architecture: From Theory to Practice -- 24 Ecodemocracy in Practice: Examples of Forestry and Food Production -- 25 Semantic Analyses of Hilary Putnam's Twin Earth (ft. TE Diagram) -- 26 Sport Sciences: An Ideal Field of Play for Integrated Knowledges -- 27 Single Valued Neutrosophic Set: An Overview -- 28 Technology Assessment Integrated research for scientific policy advice -- 29 The Artistic and Scientific Nature of Protein Structure: A Historical Overview -- 30 The Art and Science of Biomimicry – Abstracting Design Principles from Nature -- 31 The Phenomenon of Meeting in Art: A Transdisciplinary Approach -- 32 The Phenomenon of Meeting in Art: A Transdisciplinary Approach.

Sommario/riassunto

This contributed volume book aims at discussing transdisciplinary approaches to address common problems. By working transdisciplinarily, researchers coming from different disciplines can work jointly using a shared conceptual framework bringing together disciplinary-specific theories and concepts. There are numerous barriers that can obstruct effective communication between different cultures, communities, religions and geographies. This book shows that through bringing together different disciplines, researchers not only can surpass these barriers but can effectively produce new venues of thought that can positively affect the development and evolution of research and education. The book discusses new and emerging applications of knowledge produced by transdisciplinary efforts and covers the interplay of many disciplines, including agriculture, economics, mathematics, engineering, industry, information technology, marketing, nanoscience, neuroscience, space exploration, human-animal relationships, among others. Consequently, it also covers the relationship between art and science, as one of the most remarkable transdisciplinary approaches that paves the way for new methods in engineering, design, architecture and many other fields. .
