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Titolo	L 'incerta alleanza : Modelli di relazione tra scienze umane e scienze della natura / Luciano Gallino
Pubbl/distr/stampa	Torino : Einaudi, 1992
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Altri autori (Persone)	MandelbrotBenoit B NovakM. M <1949-> (Miroslav Michal)
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Nota di contenuto	Contents; Preface M. M. Novak; Selected Topics in Mathematics, Physics, and Finance Originating in Fractal Geometry B. B. Mandelbrot; A Renewal Process of Mittag-Leffler Type F. Mainardi, R. Gorenflo and E. Scalas; On the Activity of Absorbing Irregular Interfaces J. S. Andrade Jr., H. F. Da Silva, E. A. Henrique and B. Sapoval; Fractal Deformation Using Displacement Vectors and Their Increasing Rates Based on Extended Unit Iterated Shuffle Transformation T. Fujimoto and N. Chiba; Multifractal and Stochastic Analysis of Electropolished Surfaces M. Haase, A. Mora and B. Lehle A Method for Numerical Estimation of Generalized Renyi Dimensions of Affine Recurrent IFS Invariant Measures T. MartynNonlinear Dynamics and Prediction of the Caspian Sea Level N. G. Makarenko, L. M. Karimova, Y. B. Kuandykov and M. M. Novak; Self-similarity in Plants: Integrating Mathematical and Biological Perspectives P. Prusinkiewicz; Cognitive Scale-free Networks as a Model for Intermittency in Human

Natural Language P. Allegrini, P. Grigolini and L. Palatella; The Complexity of Biological Ageing D. Stauffer  
 Fitting Curves by Fractal Interpolation: An Application to the Quantification of Cognitive Brain Processes M. A. Navascues and M. V. Sebastian  
 Stochastic and Regular Components in Forcing of Solar Large-scale Structures E. Tikhomolov; Fast, Efficient On-line Simulation of Self-similar Processes O.D.Jones; Fractal Geometry in the Arts: An Overview Across The Different Cultures N.Sala; Fractal Properties and Characterization of Road Profiles P. Legrand, J. Levy Vehel and M.-T. Do  
 Fractal Distributions of Temperature, Salinity and Fluorescence in Spring 2001-2002 in South San Francisco Bay K. Fisher and W. Kimmerer  
 Characterization of Fractal Structures Through a Hausdorf Measure Based Method F.Nekka and J.Li; Fractal Scattering Indicators for Urban Sound Diffusion P. W. Woloszyn; Binomial Multiplicative Model of Critical Fragmentation H. Katsuragi, D. Sugino and H. Honjo; Study on the Improved Fractal Interpolation Surface of the Attitude and Surface of Fault H. Sun and H. Xie  
 A Deterministic Power Domain Algorithm for Fractal Image Decompression N. Nikolaou, A. Kakos and V. Drakopoulos  
 Comparative Dynamical Scaling Analysis of Quasi-2D Electrodeposited Silver Patterns under Localized and Non-localized Random Quenched Noise M. A. Pasquale, S. L. Marchiano and A. J. Arvia; Epidermal Ridges: Positional Information Coded in an Orientational Field M. B. Nguyen, V. Fleury and J.-F. Gouyet; Multiscale Principal Components A. Saucier; Coexistence of Doublon and Dendrite Structure with Phase-Field Model S. Tokunaga and H. Sakaguchi  
 Fractality and Fractal Dimension in Mesoamerican Pyramid Analysis G. Burkle-Elizondo, A. G. Fuentes-Larios and R. D. Valdez-Cepeda

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## Sommario/riassunto

Fractal geometry, together with the broader fields of nonlinear dynamics and complexity, represented a large segment of modern science at the end of the 20th century. Penetration of the resulting new paradigms into practically all academic disciplines has confirmed the fundamental assertion of universal formalism common to a wide range of human endeavors. This book contains an extended article by B B Mandelbrot, reviewing his contribution to fractal geometry and outlining some unsolved problems, with illustrations especially of finance and physics. It covers a range of multidisciplinary topics

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