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Titolo	New Ecoinformatics Tools in Environmental Science : Applications and Decision-making // by Vladimir F. Krapivin, Costas A. Varotsos, Vladimir Yu. Soldatov
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Soggetti	Environmental sciences Statistics Environmental Science and Engineering Math. Appl. in Environmental Science Statistics and Computing/Statistics Programs
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Information-modeling technology for the environmental monitoring -- Remote-sensing technologies and data processing algorithms -- Environmental decision-making -- Ecoinformatics problems of the world ocean -- Ecoinformatics problems of global climate change -- The Arctic environmental problems -- Tropical cyclogenesis and ecoinformatics methods -- Ecoinformatics and soil-plant formations -- Operational diagnostics, estimation of the scale of damage and aftermath reduction of stressful natural processes -- Ecoinformatics problems in the future world.
Sommario/riassunto	This book provides new insights on the study of global environmental changes using the ecoinformatics tools and the adaptive-evolutionary technology of geoinformation monitoring. The main advantage of this book is that it gathers and presents extensive interdisciplinary expertise in the parameterization of global biogeochemical cycles and other environmental processes in the context of globalization and sustainable development. In this regard, the crucial global problems concerning the dynamics of the nature-society system are considered

and the key problems of ensuring the system's sustainable development are studied. A new approach to the numerical modeling of the nature-society system is proposed and results are provided on modeling the dynamics of the system's characteristics with regard to scenarios of anthropogenic impacts on biogeochemical cycles, land ecosystems and oceans. The main purpose of this book is to develop a universal guide to information-modeling technologies for assessing the function of environmental subsystems under various climatic and anthropogenic conditions.

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