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| Nota di contenuto | Preface -- Part 1 General introduction: perspectives for spatial variability within an ecosystem and interdependence between various ecosystems -- 1 Asian biodiversity network as the linkage with other major global bodies -- 2 Effects of ecosystem diversity on species richness and ecosystem functioning and services: a general conceptualization -- Part 2 Status quo of biodiversity monitoring -- 3 Monitoring breeding bird population in Taiwan -- 4 Current status of the national coral database in Japan: dataset development, applications and future directions -- 5 Development of a large-scale, long-term coral cover and disturbance database in the Philippines -- 6 Zooxanthellate scleractinian corals of Jeju Island, Republic of Korea -- 7 Landscape mosaicness in the ocean: its significance for biodiversity patterns in benthic organisms and fish -- Part 3 Historical changes in biodiversity and challenges for biodiversity conservation -- 8 Long-term and spatial variation in the diversity of littoral benthic macroinvertebrate fauna in Lake Biwa, Japan -- 9 Research on the biodiversity of the seas surrounding Malaysia -- Part 4 Advanced concept and methods of integrated biodiversity monitoring -- 10 Development of a national land-use/cover dataset to estimate |

biodiversity and ecosystem services -- 11 Land cover classification using multi-temporal satellite images in a subtropical region -- 12 Impervious surface area as an indicator for evaluating drainage basins -- 13 Biodiversity of Kargil Cold Desert in the Ladakh Himalaya -- 14 Water circulation in a fringing reef and implications for coral distribution and resilience -- 15 An integrated indicator of biodiversity in agricultural ponds: definition and validation -- 16 Ubiquitous genotyping for conservation of endangered plant species -- 17 Eco-evolutionary genomic observation for local and global environmental changes -- Part 5 Ecosystem service and socio-economic aspects with special reference to biodiversity -- 18 Monitoring changes in ecosystem services within a forest ecosystem -- 19 Evaluating relationship between biodiversity and ecosystem functions in forests using forest inventory and allometry data -- 20 Regional comparison of the ecosystem services from seagrass beds in Asia -- 21 Environmental disclosure in Japanese wood-related companies for 2005 and 2010 -- 22 Greening the cities with biodiversity indicators: experience and challenges from Japanese cities with CBI -- BM Index.

Sommario/riassunto

This volume focuses on new trends in monitoring biodiversity in the Asia-Pacific region, one of the most rapidly changing areas in the world. It provides reviews of the challenges in studying the spatial variability of biodiversity across various ecosystems. This book also describes newly developed concepts and methods for biodiversity observation including ubiquitous genotyping, systematic conservation, monitoring of the functions and services of ecosystems, and biodiversity informatics. These contributions will lead to establishing integrative observations and assessments of biodiversity, essential for reporting the current status and for the effective conservation and sustainable use of biodiversity. This work will interest biodiversity researchers not only in the Asia-Pacific region, but also across the entire globe.