1. Record Nr. UNINA9910350349303321

Titolo	Adaptation to Climate Change in Agriculture : Research and Practices / / edited by Toshichika Iizumi, Ryuichi Hirata, Ryo Matsuda
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-9235-8
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (x, 228 pages) : illustrations
Disciplina	630.2515
Soggetti	Agriculture Climatic changes Environmental management Sustainable development Botany Climate Change/Climate Change Impacts Environmental Management Climate Change Management and Policy Sustainable Development Plant Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part I. Introduction -- Chapter 1. An overview of adaptation in agriculture -- Part II. Research towards adaptation -- Chapter 2. The quality of rice grains in Japan -- Chapter 3. Breeding of heat tolerant cultivars of rice in Japan -- Chapter 4. Controlling the depth of soil frost in farm fields in Japan -- Chapter 5. Rice production in Indonesia -- Chapter 6. Tomato greenhouse horticulture -- Chapter 7. Global crop forecasting research -- Chapter 8. China -- Part III. Adaptation practices -- Chapter 9. Agricultural adaptation policy in Japan -- Chapter 10. Information platform for local governments in Japan -- Chapter 11. Supporting tools for national adaptation planning -- Chapter 12. Use of seasonal climate forecasts in agricultural decision makings in Korea and the Philippines -- Chapter 13. Decision support systems for rainfed rice farming in Asia -- Part IV. Potential ways

	moving forward -- Chapter 14. Farmers' roles in adaptation research.
Sommario/riassunto	This book highlights state-of-the-art research and practices for adaptation to climate change in food production systems (agriculture in particular) as observed in Japan and neighboring Asian countries. The main topics covered include the current scientific understanding of observed and projected climate change impacts on crop production and quality, modeling of autonomous and planned adaptation, and development of early warning and/or support systems for climate-related decision-making. Drawing on concrete real-world examples, the book provides readers with an essential overview of adaptation, from research to system development to practices, taking agriculture in Asia as the example. As such, it offers a valuable asset for all researchers and policymakers whose work involves adaptation planning, climate negotiations, and/or agricultural developments.