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Titolo	Science Gateways for Distributed Computing Infrastructures [[electronic resource]] : Development Framework and Exploitation by Scientific User Communities / / edited by Péter Kacsuk
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Descrizione fisica	1 online resource (308 p.)
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Soggetti	Software engineering Computers Information technology Business—Data processing Computer mathematics Application software Software Engineering/Programming and Operating Systems Information Systems and Communication Service IT in Business Computational Mathematics and Numerical Analysis Computer Applications Theory of Computation
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	WS-PGRADE/gUSE Science Gateway Framework -- Domain-Specific Science Gateways Customized from the WS-PGRADE/gUSE Framework -- Further Applications of WS-PGRADE/gUSE -- Conclusions and

	Outlook.
Sommario/riassunto	The book describes the science gateway building technology developed in the SCI-BUS European project and its adoption and customization method, by which user communities, such as biologists, chemists, and astrophysicists, can build customized, domain-specific science gateways. Many aspects of the core technology are explained in detail, including its workflow capability, job submission mechanism to various grids and clouds, and its data transfer mechanisms among several distributed infrastructures. The book will be useful for scientific researchers and IT professionals engaged in the development of science gateways.