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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Omer H. Abdelrahman, Erol Gelenbe: Search in Big Networks and Big Data -- David Applebaum, Rodrigo Banuelos: Probabilistic Approach to Fractional Integrals and the HardyLittlewoodSobolev Inequality -- R. V. Craster: Dynamic homogenization -- Tadeusz Czachorski: Queueing Models for Performance Evaluation of Computer Networks Transient State Analysis -- Tokio Matsuyama, Michael Ruzhansky: Global well posedness of the Kirchhoff equation and Kirchhoff systems -- Wieslaw L. Nowinski: Brain atlasing: design principles, methods, tools and applications -- Grigory Panasenko: Method of asymptotic partial domain decomposition for nonsteady problems: wave equation on a thin structure -- Aleksandr Rusakov: The first student of Andrei Nikolaevich Kolmogorov -- M. Zhuravkov, L.Drozdz, N. Romanova, A. Krupoderov: Mechanical-mathematical modelling of biological tissue behavior. .
Sommario/riassunto	The book includes lectures given by the plenary and key speakers at the 9th International ISAAC Congress held 2013 in Krakow, Poland. The contributions treat recent developments in analysis and surrounding

areas, concerning topics from the theory of partial differential equations, function spaces, scattering, probability theory, and others, as well as applications to biomathematics, queueing models, fractured porous media and geomechanics.
