

Medical Radiology **Diagnostic Imaging**

Thomas Kahn
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Editors

Interventional Magnetic Resonance Imaging

Magnetic resonance imaging (MRI) has become one of the most powerful diagnostic tools in modern medicine, with a number of well-known advantages in terms of image quality, functional imaging options, and patient safety. The idea of using this enormous potential also for interventional purposes may seem obvious, but it took major efforts by engineers, physicists, and clinicians to come up with dedicated interventional techniques and scanners, and improvements are still ongoing. Since the inception of interventional MRI in the mid-1990s, the numbers of settings, techniques, and clinical applications have increased dramatically. This state of the art book covers all aspects of interventional MRI. The more technical contributions offer an overview of the fundamental ideas and concepts and present the available instrumentation. The richly illustrated clinical contributions, ranging from MRI-guided biopsies to completely MRI-controlled therapies in various body regions, provide detailed information on established and emerging applications and identify future trends and challenges.

ISSN 0942-5373

ISBN 978-3-642-20705-1



springer.com

Kahn · Busse *Eds.*

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