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## Advancing Technologies and Intelligence in Healthcare and Clinical Environments Breakthroughs

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Advancing Technologies and Intelligence in Healthcare and Clinical Environments Breakthroughs



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#### Joseph Tan (McMaster University, Canada)

Clinical decision support systems, medical applications, and electronic health records each help to ensure the provision of efficient, accurate healthcare services, thereby providing patients with a better experience and overall reducing health care costs.

#### Advancing Technologies and Intelligence in Healthcare and Clinical Environments

**Breakthroughs** is a prime resource for both academic researchers and practitioners looking to advance their knowledge of the interdisciplinary areas of healthcare information technology and management research. This book addresses innovative concepts and critical issues in the emerging field of health information systems and informatics, with an emphasis on sustainable computer information systems, ensuring healthcare efficiency, and denoising MRI and ECG outputs.

#### **Topics Covered:**

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- IT security and privacy issues
- Clinical Decision Support Systems
- Neural Networks
- Distributed Service Architectures
- Virtual health technologies
- Electronic Health Records Systems
- Mobile Health Care Systems
- Home Telecare Management System
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Joseph Tan (Dip, BA, MS, PhD) holds a professional diploma in civil engineering from Singapore Polytechnic, an undergraduate degree in mathematics and computer science from Wartburg College, a master's degree in industrial & management engineering from the University of Iowa, and a PhD in management information systems from the University of British Columbia (UBC). He has been a tenured associate professor teaching in the Department of Healthcare & Epidemiology at UBC for many years prior to serving as a professor and Head of Information System and Manufacturing (ISM) Department at the School of Business at Wayne State University.

Joseph has published research in computing, ergonomics, information systems, health informatics, health education, e-health, and e-business journals and has served as guest editor and member of various journal editorial boards. He sits on key organizing committees for local, national, and international meetings and conferences. Professor Tan's research, which has enjoyed significant support in the last several years from local, national and international funding agencies and other sources, has also been widely cited and applied across a number of major disciplines, including healthcare informatics and clinical decision support, health technology management research, human processing of graphical representations, ergonomics, health administration education, telehealth, mobile health, and e-health promotion programming.



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