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Innovations in Data Methodologies and Computational Algorithms for Medical Applications

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(University of Maryland Baltimore County (UMBC), USA)

Medicine has, until recently, been slow to adapt to information technologies and systems for many reasons, but the future lies therein.

Innovations in Data Methodologies and Computational Algorithms for Medical Applications offers the most cutting-edge research in the field, offering insights into case studies and methodologies from around the world. The text details the latest developments and will serve as a vital resource to practitioners and academics alike in the burgeoning field of medical applications of technologies. As security and privacy improve, Electronic Health Records and informatics in the medical field are becoming ubiquitous, and staying abreast of the latest information can be difficult. This volume serves as a reference handbook and theoretical framework for the future of the field.

Topics Covered:

- Bioinformatics
- Clinical informatics
- e-Health
- Electronic health records
- eMix
- Health informatics law
- Health information exchange
- Health information management
- Hospital information system
- Personal health record



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Aryya Gangopadhyay is a professor of information systems at University of Maryland Baltimore County (UMBC). He is also Associate Chair of Academic Affairs in the Department of Information Systems. Dr. Gangopadhyay has a PhD degree in computer information systems from Rutgers University. He has published peer-reviewed several articles on spatial and spatio-temporal data mining, data mining in medicine, data stream mining, and navigating multi-dimensional databases. Dr. Gangopadhyay He has also co-authored and edited three books, and he has received funding from NSF, US Department of Education, state and government agencies, and private industries.



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