Pharmacoinformatics and Drug Discovery Technologies: Theories and Applications

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Within the context of integrated health management domains, pharmacoinformatics aims at maximizing the benefits from the use of information systems and technologies for the provision of decision support tools necessary for improved drug management, use, and administration practices.

Pharmacoinformatics and Drug Discovery Technologies: Theories and Applications offers the latest the field has to offer to practitioners and academics alike, presented through theoretical frameworks, case studies, and future directions. This vital resource gathers an integrated pattern of high quality publications from around the world providing current, current-edge, and provocative scientific work in the three domains of pharmacoinformatics: decision making domains, knowledge utilization and representation environment, and the technological and infrastructural context.

Topics Covered:
- Artificial neural networks
- Capacity building
- Cluster analysis and data mining
- Computing paradigms
- Education
- Information representation
- Pharmacoinformatics infrastructure
- Pharmacovigilance
- Pharmacy management
- Reporting systems

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Section 1: Contextual Analysis of the Domain of Pharmacoinformatics

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