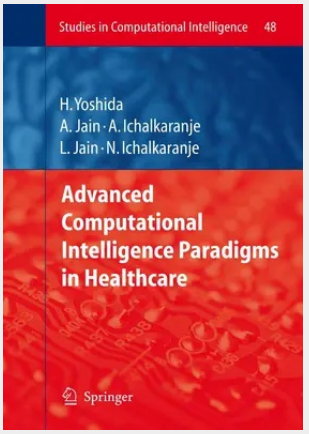
Yoshida / Jain / Ichalkaranje

Advanced Computational Intelligence Paradigms in Healthcare - 1



This book presents some of the most recent research results on the applications of computational intelligence in healthcare. The contents include: information model for management of clinical content; state-based model for management of type II diabetes; case-based reasoning in medicine; assessing the quality of care in AI environment; electronic medical record to examine physician decisions; multi-agent systems for the management of community healthcare; assistive wheelchair navigation; and more.

There is an ever increasing thrust to automate a range of activities in every discipline including healthcare, engineering, science, business and mana- ment. Computational intelligence paradigms have o?ered some advantages in automating and creating the human-like capability in healthcare sector. The primary goal of this book is to present some of the most recent research - sultsoftheapplicationsofcomputationalintelligenceinhealthcare.Thisbook consists of ten chapters. Chapter 1 by Sordo et al. present an Order Set Schema developed by the Clinical Knowledge Management and Decision Support Group at Partners HealthCare and the Decision Systems Group at Harvard Medical School. It provides a brief introduction to key issues involved in its implementation. The Order Set Schema is the result of a broader enterprise-wide knowledge management e?ort to identify and leverage current clinical knowledge across Partners institutions. The chapter includes a brief introduction to knowledge representation and management including ontologies. It includes description of the clinical content identi?ed and presents a summary of accomplishments.

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