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Fuzzy Expert Systems for Disease Diagnosis

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Fuzzy Expert Systems for Disease Diagnosis

Part of the Advances in Medical Technologies and Clinical Practice Book Series

A.V. Senthil Kumar (Hindusthan College of Arts and Science, India)

The development of fuzzy expert systems has provided new opportunities for problem solving amidst uncertainties. The medical field, in particular, has benefitted tremendously from advancing fuzzy system technologies.

Fuzzy Expert Systems for Disease Diagnosis highlights the latest research and developments in fuzzy rule-based methods used in the detection of medical complications and illness. Offering emerging solutions and practical applications, this timely publication is designed for use by researchers, academicians, and students, as well as practitioners in the medical field.

Topics Covered:

- Expert systems
- FIX
- Fuzzy Logic
- Fuzzy Numbers
- Fuzzy Sets
- MATLAB
- Rule Generation
- Rule-Based Systems

A.V. Senthil Kumar



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A.V.Senthil Kumar obtained his BSc Degree (Physics) in 1987, P.G.Diploma in Computer Applications in 1988, and MCA in 1991 from Bharathiar University. He obtained his Master of Philosophy in Computer Science from Bharathidasan University, Trichy during 2005 and his Ph.D in Computer Science from Vinayaka Missions University during 2009. To his credit he has industrial experience for five years as a System Analyst in a garment export company. Later he took up teaching and joined the CMS College of Science and Commerce, Coimbatore and now he is working as a Director & Professor in the Department of Research and PG in Computer Applications, Hindusthan College of Arts and Science, Coimbatore since 05/03/2010. He has to his credit 4 book chapters, 53 papers in international and national journals, 42 papers in international conferences and National Conferences, 2 books and edited a book in Data Mining (IGI Global, USA) and a book in Mobile Computing (IGI Global, USA). He is an Editor-in-Chief for international journals titled *International Journal of Data Mining and Emerging Technologies*, *International Journal of Image Processing and Applications*, *International Journal of Advances in Knowledge Engineering & Computer Science*, *International Journal of Advances in Computers and Information Engineering*, and *International Journal of Research and Reviews in Computer Science*. Key Member for India, Machine Intelligence Research Lab (MIR Labs). He is an Editorial Board Member and Reviewer for various international journals. He is also a committee member for various international conferences. He is a life member of the International Association of Engineers (IAENG), Systems Society of India (SSI), member of The Indian Science Congress Association, member of Internet Society (ISOC), International Association of Computer Science and Information Technology (IACSIT), Indian Association for Research in Computing Science (IARCS), and committee member for various international conferences. He has received many awards from national and international societies.



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