Evolving Fuzzy Systems - Methodologies, Advanced Concepts and Applications (Studies in Fuzziness and Soft Computing)

By Edwin Lughofer

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This book presents several evolving fuzzy systems approaches using real-world application scenarios to underline the usefulness and necessity of evolving fuzzy systems. The text also outlines potential new applications and raises open problems and new challenges.

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Editorial Review

From the Back Cover

In today's real-world applications, there is an increasing demand of integrating new information and knowledge on-demand into model building processes to account for changing system dynamics, new operating conditions, varying human behaviors or environmental influences.

Evolving fuzzy systems (EFS) are a powerful tool to cope with this requirement, as they are able to automatically adapt parameters, expand their structure and extend their memory on-the-fly, allowing online/real-time modeling.

This book comprises several evolving fuzzy systems approaches which have emerged during the last decade and highlights the most important incremental learning methods used. The second part is dedicated to advanced concepts for increasing performance, robustness, process-safety and reliability, for enhancing user-friendliness and enlarging the field of applicability of EFS and for improving the interpretability and understandability of the evolved models. The third part underlines the usefulness and necessity of evolving fuzzy systems in several online real-world application scenarios, provides an outline of potential future applications and raises open problems and new challenges for the *next generation evolving systems*, including *human-inspired evolving machines*.

The book includes basic principles, concepts, algorithms and theoretic results underlined by illustrations. It is dedicated to researchers from the field of fuzzy systems, machine learning, data mining and system identification as well as engineers and technicians who apply data-driven modeling techniques in real-world systems.

Users Review

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