



Evolving Rule-Based Models [A Tool for Design of Flexible Adaptive Systems /

Angelov, Plamen P.

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Logic, Symbolic and mathematical

Systems theory

Artificial intelligence

Engineering

Mathematical Logic and Foundations

Systems Theory, Control

Artificial Intelligence

Complexity

Monografía

The objects of modelling and control change due to dynamical characteristics, fault development or simply ageing. There is a need to up-date models inheriting useful structure and parameter information. The book gives an original solution to this problem with a number of examples. It treats an original approach to on-line adaptation of rule-based models and systems described by such models. It combines the benefits of fuzzy rule-based models suitable for the description of highly complex systems with the original recursive, non iterative technique of model evolution without necessarily using genetic algorithms, thus avoiding computational burden making possible real-time industrial applications. Potential applications range from autonomous systems, on-line fault detection and diagnosis, performance analysis to evolving (self-learning) intelligent decision support systems

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Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es