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Fuzzy Set Theory and Advanced Mathematical Applications

By Ruan, Da

Condition: New. Publisher/Verlag: Springer, Berlin | Fuzzy Set Theory and Advanced Mathematical Applications contains contributions by many of the leading experts in the field, including coverage of the mathematical foundations of the theory, decision making and systems science, and recent developments in fuzzy neural control. The book supplies a readable, practical toolkit with a clear introduction to fuzzy set theory and its evolution in mathematics and new results on foundations of fuzzy set theory, decision making and systems science, and fuzzy control and neural systems. Each chapter is self-contained, providing up-to-date coverage of its subject. Audience: An important reference work for university students, and researchers and engineers working in both industrial and academic settings. | Foreword; H.-J. Zimmermann. Editor's Preface; Da Ruan. Part 1: Foundations of Fuzzy Set Theory. 1. On the Evolution of the Mathematics of Fuzziness; E. Kerre. 2. Closedness and Upper Semi-Continuity of Fuzzy Multivalued Mappings; E. Tsiporkova-Hristoskova. 3. An Order-Theoretic Approach to Solving Sup-T Equations; B. de Baets. 4. Towards a Possibilistic Logic; G. de Cooman. Part 2: Decision Making and Systems Science. 5. Fuzzy Dynamic Programming: A New Quality Through Fuzzy Sets; J. Kacprzyk. 6. On Transitivity of Fuzzy Preference Relations in Ranking Fuzzy Numbers;...



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