Journal Axioms

Subjects: Mathematics | Logic | Mathematics, Applied
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Keywords: mathematical analysis ; mathematical physics ; mathematical logic ; fuzzy logic ; number theory ; graph theory ; differential equation ; probability theory ; information theory ; quantum theory

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Subject Areas

- Axiomatic theories in physics and in mathematics (for example, axiomatic theory of thermodynamics, and also either the axiomatic classical set theory or the axiomatic fuzzy set theory)
- Axiomatization, axiomatic methods, theorems, mathematical proofs
- Algebraic structures, field theory, group theory, topology, vector spaces
- Mathematical analysis
- Mathematical physics
- Mathematical logic, and non-classical logics, such as fuzzy logic, modal logic, non-monotonic logic. *etc*.
- Classical and fuzzy set theories
- Number theory
- Systems theory
- Classical measures, fuzzy measures, representation theory, and probability theory
- Graph theory
- Information theory
- Entropy
- Symmetry
- Differential equations and dynamical systems
- Relativity and quantum theories
- Mathematical chemistry
- Automata theory
- Mathematical problems of artificial intelligence
- Complex networks from a mathematical viewpoint

- Reasoning under uncertainty
- Interdisciplinary applications of mathematical theory
