

Transactions on Rough Sets XI

Volume XI of the Transactions on Rough Sets (TRS) provides evidence of further growth in the rough set landscape, both in terms of its foundations and applications. This volume provides further evidence of the number of research streams that were either directly or indirectly initiated by the seminal work on rough 1 sets by Zdzisław Pawlak (1926-2006). Evidence of the growth of various rough 2 set-based research streams can be found in the rough set database.

This volume contains articles introducing advances in the foundations and applications of rough sets. These advances include: calculus of attribute-value pairs useful in mining numerical data, definability and coalescence of approximations, variable consistency generalization approach to bagging controlled by measures of consistency, classical and dominance-based rough sets in the search for genes, judgement about satisfiability under incomplete information, irreducible descriptive sets of attributes for information systems useful in the design of concurrent data models, computational theory of perceptions (CTP) and its characteristics and the relation with fuzzy-granulation, methods and algorithms of the Net-TRS system, a recursive version of the apriori algorithm designed for parallel processing, and decision table reduction method based on fuzzy rough sets.

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