Invited Contributions

An Intelligent User Interface for Browsing and Searching MPEG-7 Images Using Concept Lattices p. 1

First Elements on Knowledge Discovery Guided by Domain Knowledge (KDDK) p. 22

Formal Concept Analysis as Applied Lattice Theory p. 42

Foundations

Direct Factorization by Similarity of Fuzzy Concept Lattices by Factorization of Input Data p. 68

Succinct System of Minimal Generators: A Thorough Study, Limitations and New Definitions p. 80

Closure Systems of Equivalence Relations and Their Labeled Class Geometries p. 96

Generalizations of Approximable Concept Lattice p. 107

Methods

Rule Validation of a Meta-classifier Through a Galois (Concept) Lattice and Complementary Means p. 123

Graded LinClosure and Its Role in Relational Data Analysis p. 139

Yet Another Approach for Completing Missing Values p. 155

Efficient Generic Association Rules Based Classifier Approach p. 170

Galois Lattices and Bases for M[subscript GK]-Valid Association Rules p. 186

Generic Association Rule Bases: Are They so Succinct? p. 198

Concept Lattice Representations of Annotated Taxonomies p. 214

An Algorithm to Find Frequent Concepts of a Formal Context with Taxonomy p. 226

Applications

Unique Factorization Theorem and Formal Concept Analysis p. 232

Towards Concise Representation for Taxonomies of Epistemic Communities p. 240

Towards an Iterative Classification Based on Concept Lattice p. 256

Using Formal Concept Analysis for Mining and Interpreting Patient Flows within a Healthcare Network p. 263

Using FCA to Suggest Refactorings to Correct Design Defects p. 269

Type Signature Induction with FCAType p. 276

Author Index p. 283

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.