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Note generali	"... A selection of papers presented initially at the 2005 IEEE International Conference on Granular Computing held in Beijing July 25-27 and a few invited papers"--Pref.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Anti-parallel Coiled Coils Structure Prediction by Support Vector Machine Classification -- A Complex Bio-networks of the Function Profile of Genes -- Evolutionary Construction of Granular Kernel Trees for Cyclooxygenase-2 Inhibitor Activity Comparison -- A Control Model for Markovian Genetic Regulatory Networks -- Realization of Biological Data Management by Object Deputy Database System -- GeneTUC, GENIA and Google: Natural Language Understanding in Molecular Biology Literature -- Gene Relation Finding Through Mining Microarray Data and Literature -- A Multi-information Based Gene Scoring Method for Analysis of Gene Expression Data -- Relation-Based Document Retrieval for Biomedical IR -- Relation-Based Document Retrieval for Biomedical IR.
Sommario/riassunto	The 5th Transactions on Computational Systems Biology collects

carefully chosen and enhanced contributions initially presented at the 2005 IEEE International Conference on Granular Computing held in Beijing, China, in July 2005. The 9 papers in this special issue cover various aspects of computational methods, algorithms and techniques in bioinformatics such as gene expression analysis, biomedical literature mining and natural language processing, protein structure prediction, biological database management and biomedical information retrieval.
