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Titolo	Rough sets and current trends in computing : first international conference, RSCTC '98, Warsaw, Poland, June 22-26, 1998 : proceedings / / Lech Polkowski, Andrzej Skowron, (editors)
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Talks (received in text form) -- Deviation and Association Patterns for Subgroup Mining in Temporal, Spatial, and Textual Data Bases -- The Paradox of the Heap of Grains in Respect to Roughness, Fuzziness and Negligibility -- Rough Sets - What Are They About? -- Reasoning about Data — A Rough Set Perspective -- Information Granulation and its Centrality in Human and Machine Intelligence -- Communications -- Classification Strategies Using Certain and Possible Rules -- Well-Behaviored Operations for Approximate Sets -- Searching for Frequential Reducts in Decision Tables with Uncertain Objects -- A New Rough Set Approach to Multicriteria and Multiattribute Classification -- A Heuristic Method of Model Choice for Nonlinear Regression -- How a New Statistical Infrastructure Induced a New Computing Trend in Data Analysis -- Some Remarks on Networks of Parallel Language Processors -- Molecular Computation for Genetic Algorithms -- Marcus Contextual Languages and their Cut-and-Paste Properties -- Contextual Multilanguages: A Learning Method -- On Recognition of Words from Languages Generated by Linear Grammars with One Nonterminal Symbol -- Approximation Spaces and Definability for Incomplete Information Systems -- Intrinsic Co-Heyting Boundaries and Information Incompleteness in Rough Set Analysis -- Multifunctions as Approximation Operations in Generalized

Approximation Spaces -- Preimage Relations and Their Matrices --
Cellular Neural Networks for Navigation of a Mobile Robot -- The
Takagi-Sugeno Fuzzy Model Identification Method of Parameter Varying
Systems -- Sensing of Arc Length and Wire Extension Using Neural
Network in Robotic Welding -- Traffic Signal Control Using Multi-
layered Fuzzy Control -- Approximation Region-Based Decision Tables
-- A Model of RSDM Implementation -- Handling Queries in Incomplete
CKBS through Knowledge Discovery -- Learning Logical Descriptions
for Document Understanding: A Rough Sets-Based Approach --
Integrating KDD Algorithms and RDBMS Code -- Fast Discovery of
Representative Association Rules -- Rough Classifiers Sensitive to
Costs Varying from Object to Object -- Soft Techniques to Data Mining
-- Business Process Understanding: Mining Many Datasets -- A Genetic
Algorithm for Switchbox Routing Problem -- On the Benefits of
Random Memorizing in Local Evolutionary Search -- An Application of
Genetic Algorithms to Floorplanning of VLSI -- Learning with Delayed
Rewards in Ant Systems for the Job-Shop Scheduling Problem -- Fuzzy
Extension of Rough Sets Theory -- Fuzzy Similarity Relation as a Basis
for Rough Approximations -- Approximation Spaces in Extensions of
Rough Set Theory -- On Generalizing Pawlak Approximation Operators
-- Real-Time Real-World Visual Classification — Making Computational
Intelligence Fly -- Fractal Operator Convergence by Analysis of
Influence Graph -- Pattern Recognition by Invariant Reference Points --
An Analysis of Context Selection in Embedded Wavelet Coders --
Equivalent Characterization of a Class of Conditional Probabilistic
Independencies -- A New Qualitative Rough-Set Approach to Modeling
Belief Functions -- On Stability of Oja Algorithm -- Transform Vector
Quantization of Images in One Dimension -- Daubechies Filters for 2D
Wavelet Transforms -- Some Heuristics for Default Knowledge
Discovery -- Fuzzy Partitions II: Belief Functions A Probabilistic View --
Frameworks for Mining Binary Relations in Data -- Handling
Continuous Attributes in Discovery of Strong Decision Rules --
Covering with Reducts - A Fast Algorithm for Rule Generation --
Syntactical Content of Finite Approximations of Partial Algebras -- A
New Approach to Linguistic Negation based upon Compatibility Level
and Tolerance Threshold -- Some Issues on Nondeterministic
Knowledge Bases with Incomplete and Selective Information -- The OI-
Resolution of Operator Rough Logic -- Pedagogical Method for
Extraction of Symbolic Knowledge -- Wavelets, Rough Sets and
Artificial Neural Networks in EEG Analysis -- Parallel Computation of
Reducts -- Rough Rules in Prolog -- Tuning the Perceptual Noise
Reduction Algorithm Using Rough Sets -- Modelling Medical Diagnostic
Rules Based on Rough Sets -- Discretization of Continuous Attributes
on Decision System in Mitochondrial Encephalomyopathies --
Approximate Time Rough Control: Concepts and Application to Satellite
Attitude Control -- Some Relationships between Decision Trees and
Decision Rule Systems -- On Decision Trees with Minimal Average
Depth -- On Diagnosis of Retaining Faults in Circuits -- On the Depth
of Decision Trees for Diagnosing of Nonelementary Faults in Circuits --
Discovery of Decision Rules by Matching New Objects Against Data
Tables -- Rule+Exception Modeling Based on Rough Set Theory -- On
Finding Optimal Discretizations for Two Attributes -- Discretization
Problem for Rough Sets Methods -- Rough Mereology for Industrial
Design -- Optimal Stochastic Scaling of CAE Parallel Computations --
CBR for Complex Objects Represented in Hierarchical Information
Systems -- Application of the Information Measures to Input Support
Selection in Functional Decomposition -- Modelling Social Game
Systems by Rule Complexes -- Analysis and Synthesis of Information

Systems with Information Relationships and Measures --
 Approximations in Data Mining -- Purchase Prediction in Database
 Marketing with the ProbRough System -- Rough Sets in Optical
 Character Recognition -- ROSE - Software Implementation of the Rough
 Set Theory -- Rough Sets and Bayesian Methods Applied to Cancer
 Detection -- Rough Sets and Neural Networks Application to
 Handwritten Character Recognition by Complex Zernike Moments.

Sommario/riassunto

This volume constitutes the refereed proceedings of the First International Conference on Rough Sets and Current Trends in Computing, RSCTC'98, held in Warsaw, Poland, in June 1998. The volume presents 82 revised papers carefully selected for inclusion in the proceedings; also included are five invited contributions. The volume is divided in topical sections on rough set methods, statistical inference, grammar systems and molecular computations, logic in rough sets, intelligent control, rough sets in knowledge discovery and data discovery, data mining, evolutionary computation, hybrid methods, etc.

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Probiotics : sources, types and health benefits / / Abbey Smith and Caleb L. Jones, editors

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""DEVELOPMENT AND EVOLUTION OF FIBRE DETERMINATION METHODS
 ""; ""CLASSIFICATION OF DIETARY FIBRE ""; ""RICE ""; ""SOLUBLE AND
 INSOLUBLE FIBRE IN RICE ""; ""PHYSIOLOGICAL AND METABOLIC
 EFFECTS OF DIETARY FIBRE ON HUMAN HEALTH""; ""Daily Intake of
 Dietary Fibre ""; ""Fermentation of Dietary Fibre ""; ""Why In-Vitro
 Fermentation?""; ""LIMITATIONS AND IMPORTANCE OF IN-VITRO
 FERMENTATION ""
 ""IN-VITRO FERMENTATION MODELS """"PRODUCTS FROM THE
 FERMENTATION OF DIETARY FIBRE ""; ""SHORT CHAIN FATTY ACIDS
 AND THEIR IMPLICATIONS ""; ""FACTORS INFLUENCING SCFA
 FORMATION DURING FERMENTATION ""; ""CONCEPT OF PREBIOTIC,
 PROBIOTIC, AND SYMBIOTIC ""; ""COLONIC FOOD AND PREBIOTICS "";
 ""CURRENT PROBIOTIC POSITION AND STATE OF THE ART "";
 ""Lactobacillus Species ""; ""BIFIDOBACTERIUM SPECIES""; ""CONCEPT OF
 SYMBIOTIC ""; ""STRATEGY FOR ACETATE, PROPIONATE AND BUTYRATE
 FORMATION BY BIFIDOBACTERIA AND LACTOBACILLUS SPECIES"";
 ""MICROBIAL ADHESION ""; ""CONCLUSION ""; ""REFERENCES ""
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 INFLAMMATORY IMMUNITY""""ABSTRACT ""; ""INTRODUCTION ""; ""THE
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 IN INNATE IMMUNITY AND TOLERANCE ""; ""IMMUNOREGULATORY
 EFFECT OF LACTIC ACID BACTERIA IN INTESTINAL INNATE IMMUNITY
 VIA PATTERN RECOGNITION RECEPTORS ""; ""FUNCTIONAL EXPRESSION
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 ""CONSTRUCTION OF MOLECULAR IMMUNOASSAY SYSTEM FOR THE
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 ""UTILIZATION OF PORCINE INTESTINAL EPITHELIAL CELLS FOR
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 Mediated Inflammatory Response in PIE Cells by Immunobiotics "";
 ""Modulation of TLR3-Mediated Anti-Viral Inflammatory Response in PIE
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 CHARACTERISTICS FOR PROBIOTIC APPLICATIONS ""; ""ABSTRACT"";
 ""INTRODUCTION ""; ""FUNCTIONAL PROPERTIES ""; ""HEALTH BENEFITS
 AND THERAPEUTIC EFFECTS""; ""FOOD AND PHARMACEUTICAL
 APPLICATIONS ""; ""CONCLUSION ""
 ""REFERENCES """"PROBIOTICS IN THE PREVENTION AND TREATMENT OF
 ELDERLY DISEASE ""; ""ABSTRACT""; ""INTRODUCTION ""; ""AGE-RELATED
 ALTERATIONS IN THE INTESTINAL MICROBIOTA ""; ""AGE-RELATED
 ALTERATIONS IN COLONIC METABOLIC ACTIVITY ""; ""PROBIOTICS IN
 THE PREVENTION AND TREATMENT OF ELDERLY DISEASE ""; ""APPENDIX
 I. PUBLISHED LITERATURE FOCUSED ON THE USE OF PROBIOTICS IN
 ELDERLY DISEASE ""; ""1) Gut Microecology""; ""2) Bowel Movement,
 Constipation, and Gut transit Time ""; ""3) Irritable Bowel Syndrome "";
 ""4) Antibiotic-associated Diarrhea (AAD) ""; ""5) Bacterial Vaginosis (BV)
 ""
 ""6) Immune Modulation ""

Sommario/riassunto

Probiotics are live microorganisms that beneficially influence human health. The majority of probiotics are found in the gastrointestinal tract and are mainly represented by lactobacilli and bifidobacteria. In this new book, the authors present current research in the study of the sources, types and health benefits of probiotics. Topics included in this compilation include the role of probiotics and dietary fibre on the modulation of human gut flora to a healthy flora; porcine toll-like receptors and their crosstalk with immunobiotics; probiotics in the prevention and treatment of elderly disease; probiotic cheeses; antibiotic resistance and probiotics; and probiotics in maternal and

early infant nutrition.
