

## Data Mining Metodi E Strategie

*This volume collects the papers selected for presentation at the IX Congress of the Italian Association for Artificial Intelligence (AI\*IA), held in Milan at the University of Milano–Bicocca (September 21–23, 2005). On the one hand this congress continues the tradition of AI\*IA in organizing its biannual scientific meeting from 1989; on the other hand, this edition is a landmark in the involvement of the international community of artificial intelligence (AI), directly involving a broad number of experts from several countries in the Program Committee. Moreover, the peculiar nature of scientific research in artificial intelligence (which is intrinsically international) and several consolidated international collaborations in projects and mobility programs allowed the collection and selection of papers from many different countries, all around the world, enlarging the visibility of the Italian contribution within this research field. Artificial intelligence is today a growing complex set of conceptual, theoretical, methodological, and technological frameworks, offering innovative computational solutions in the design and development of computer-based systems. Within this perspective, researchers working in this area must tackle a broad range of knowledge about methods, results, and solutions coming from different classical areas of this discipline. The congress was designed as a forum allowing researchers to present and discuss specialized results as general contributions to AI growth.*

*The Internet gives the consumer almost unlimited choice in products. At the same time, it causes a globalization of consumer habits and tastes. One important question that arises is: Does the Internet and the World Wide Web offer the same opportunities for choice of services as they do for products? Services Customization Using Web Technologies aims to advance our understanding of Web-related concepts, approaches, and technologies revolving around the core theme of e-service customization. Limitless e-service choice can become possible on the Web only through customization. Understanding such customization on the Web, applied at a mass market level, in a cost efficient manner, will present an unprecedented opportunity for both the industry and the consumers. For both researchers and practitioners, understanding that as service customization accelerates through other types of industries and consumers, we will experience, the benefits of service customization in many more areas of everyday life.*

*This book constitutes the refereed proceedings of the 13th International Conference on Inductive Logic Programming, ILP 2003, held in Szeged, Hungary in September/October 2003. The 23 revised full papers presented were carefully reviewed and selected from 53 submissions. Among the topics addressed are multirelational data mining, complexity issues, theory revision, clustering, mathematical discovery, relational reinforcement learning, multirelational learning, inductive inference, description logics, grammar systems, and inductive learning.*

*Doing research is an ever-changing challenge for social scientists. This challenge is harder than ever today as current societies are changing quickly and in many, sometimes conflicting, directions. Social phenomena, personal interactions, and formal and informal relationships are becoming more borderless and disconnected from the anchors of the offline “reality.” These dynamics are heavily marking our time and are suggesting evolutionary challenges in the ways we know, interpret, and analyze the world.*

*Internet and computer-mediated communication (CMC) is being incorporated into every aspect of daily life, and social life has been deeply penetrated by the internet. This is due to recent technological developments that increase the scope and range of online social spaces and the forms and time of participation such as Web 2.0, which widened the opportunities for user-generated content, the emergence of an “internet of things,” and of ubiquitous mobile devices that make it possible to always be connected. This implies an adjustment to epistemological and methodological stances for conducting social research and an adaption of traditional social research methods to the specificities of online interactions in the digital society. The Handbook of Research on Advanced Research Methodologies for a Digital Society covers the different strands of methods most affected by the change in a digital society and develops a broader theoretical reflection on the future of social research in its challenge to always be fitting, suitable, adaptable, and pertinent to the society to be studied. The chapters are geared*

*towards unlocking the future frontiers and potential for social research in the digital society. They include theoretical, epistemological, and ontological reflections about the digital research methods as well as innovative methods and tools to collect, analyze, and interpret data. This book is ideal for social scientists, practitioners, librarians, researchers, academicians, and students interested in social research methodology and its developments in the digital scenario.*

*A Primer on PDEs*

*Innovazione e competitività delle PMI in Italia. Metodi e modelli di mercato*

*Data mining*

*Algorithms and Applications*

*8th Congress of the Italian Association for Artificial Intelligence, Pisa, Italy, September 23-26, 2003,*

*Proceedings*

*Applications in E-Commerce, Medicine, and Knowledge Management*

*Data Mining*

This book constitutes the refereed proceedings of the 8th Congress of the Italian Association for Artificial Intelligence, AI\*IA 2003, held in Pisa, Italy in September 2003. The 44 revised full papers presented were carefully reviewed and selected from 91 submissions. The papers are organized in topical sections on knowledge representation and reasoning, soft computing, machine learning, data mining, intelligent agents, planning, robotics, natural language processing, and applications in various fields. Illustrating recent advances in data mining problems, encompassing both original research results and practical development experience, this book features the proceedings of the Fourth International Conference of Data Mining, to be held in Rio de Janeiro, Brasil, December 1-3, 2003.

Contributions from academia and industry, covering such diverse areas as machine learning, databases, statistics, knowledge acquisitions, data visualization and knowledge-based systems, are included. Data Mining is a promising and relatively new area of current research and development, which can provide important advantages to the user. It can yield substantial knowledge from data primarily gathered for a wide range of quite different applications. Financial institutions have derived considerable benefits from its application and other industries and disciplines are now applying the methodology to increasing effect. The material presented in this book will be of interest to researchers and application developers working in many different areas including statistics, knowledge acquisition, data analysis, IT, data visualization and business and industry.

This volume presents an extensive collection of contributions covering aspects of the exciting and important research field of data mining techniques in biomedicine.

Coverage includes new approaches for the analysis of biomedical data; applications of data mining techniques to real-life problems in medical practice; comprehensive reviews of recent trends in the field. The book addresses incorporation of data mining in fundamental areas of biomedical research: genomics, proteomics, protein characterization, and neuroscience.

The advent of connected, smart technologies for the built environment may promise a significant value that has to be reached to develop digital city models. At the international level, the role of digital twin is strictly related to massive amounts of data that need to be processed, which proposes several challenges in terms of digital technologies capability, computing, interoperability, simulation, calibration, and representation. In these terms, the development of 3D parametric models as digital twins to evaluate energy assessment of private and public buildings is considered one of the main challenges of the last years. The ability to gather, manage, and communicate contents related to energy saving in buildings for the development of smart cities must be considered a specificity in the age of connection to increase citizen awareness of these fields. The Handbook of Research on Developing Smart Cities Based on Digital Twins contains in-depth research focused on the description of methods, processes, and tools that can be adopted to achieve smart city goals. The book presents a valid medium for disseminating innovative data management methods related to smart city topics. While highlighting topics such as data visualization, a web-based ICT platform, and data-sharing methods, this book is ideally intended for researchers in the building industry, energy, and computer science fields; public administrators; building managers; and energy professionals along with practitioners, stakeholders, researchers, academicians, and students interested in the implementation of smart technologies for the built environment.

9th European Conference on Principles and Practice of Knowledge Discovery in Databases, Porto, Portugal, October 3-7, 2005, Proceedings

Piracy and Maritime Terrorism

Mathematical Finance: Theory Review and Exercises

Metodi e modelli di mercato

16th European Conference on Artificial Intelligence, August

22-27, 2004, Valencia, Spain : Including Prestigious Applicants [sic] of Intelligent Systems (PAIS 2004) : Proceedings

Advanced Statistical Methods for the Analysis of Large Data-Sets

AI\*IA 2003: Advances in Artificial Intelligence

The book collects over 120 exercises on different subjects of Mathematical Finance, including Option Pricing, Risk Theory, and Interest Rate Models. Many of the exercises are solved, while others are only proposed. Every chapter contains an introductory section illustrating the main theoretical results necessary to solve the exercises. The book is intended as an exercise textbook to accompany graduate courses in mathematical finance offered at many universities as part of degree programs in Applied and Industrial Mathematics, Mathematical Engineering, and Quantitative Finance.

Collecting, analyzing, and extracting valuable information from a large amount of data requires easily accessible, robust, computational and analytical tools. Data Mining and Business Analytics with R utilizes the open source software R for the analysis, exploration, and simplification of large high-dimensional data sets. As a result, readers are provided with the needed guidance to model and interpret complicated data and become adept at building powerful models for prediction and classification. Highlighting both underlying concepts and practical computational skills, Data Mining and Business Analytics with R begins with coverage of standard linear regression and the importance of parsimony in statistical modeling. The book includes important topics such as penalty-based variable selection (LASSO); logistic regression; regression and classification trees; clustering; principal components and partial least squares; and the analysis of text and network data. In addition, the book presents:

- A thorough discussion and extensive demonstration of the theory behind the most useful data mining tools
- Illustrations of how to use the outlined concepts in real-world situations
- Readily available additional data sets and related R code allowing readers to apply their own analyses to the discussed materials
- Numerous exercises to help readers with computing skills and deepen their understanding of the material

Data Mining and Business Analytics with R is an excellent graduate-level textbook for courses on data mining and business analytics. The book is also a valuable reference for practitioners who collect and analyze data in the fields of finance, operations management, marketing, and the information sciences.

The book represents a basic support for a master course in electromagnetism oriented to numerical simulation. The main goal of the book is that the reader knows the boundary-value problems of partial differential equations that should be solved in order to perform computer simulation of electromagnetic processes. Moreover it includes a part devoted to electric circuit theory based on ordinary differential equations. The book is mainly oriented to electric engineering applications, going from the general to the specific, namely, from the full Maxwell ' s equations to the particular cases of electrostatics, direct current, magnetostatics and eddy currents models. Apart from standard

exercises related to analytical calculus, the book includes some others oriented to real-life applications solved with MaxFEM free simulation software. The theme of the meeting was “ Statistical Methods for the Analysis of Large Data-Sets ” . In recent years there has been increasing interest in this subject; in fact a huge quantity of information is often available but standard statistical techniques are usually not well suited to managing this kind of data. The conference serves as an important meeting point for European researchers working on this topic and a number of European statistical societies participated in the organization of the event. The book includes 45 papers from a selection of the 156 papers accepted for presentation and discussed at the conference on “ Advanced Statistical Methods for the Analysis of Large Data-sets. ”

Logistics, Strategies, Scenarios

Equilibrium Problems and Variational Models

Data Mining and Business Analytics with R

13th International Conference, ILP 2003, Szeged, Hungary, September 29 - October 1, 2003, Proceedings

Data Mining. Metodi informatici, statistici e applicazioni

Dove Va la Storia Economica?

Organizational Processes and Technology Innovation

*Negli ultimi dieci anni c'è stata un'ampia fase dell'innovazione tecnologica che ha portato alla diffusione di grandi quantità di dati in diversi campi applicativi. Le aziende in primo luogo hanno a disposizione moltissimi elementi informativi riguardanti i loro clienti, ma anche nella medicina, nella genetica, nella biologia, e in molti altri ambienti applicativi sono ora a disposizioni grandi masse di dati. Tale realtà porta con sé la necessità di sviluppare e conoscere nuovi strumenti di analisi statistica. In questo contesto molti strumenti e metodi di analisi hanno origini diverse, in particolare dalla statistica e dal machine learning, ma condividono molti aspetti. Questo libro descrive i concetti più importanti di queste aree in un'impostazione unificata. Seppure l'approccio sia statistico, l'enfasi è sui concetti piuttosto che sulla formulazione matematica. Vengono presentati molti esempi corredati da un'ampia varietà di illustrazioni grafiche. Il libro dovrebbe quindi costituire un utile strumento per gli statistici e per chiunque altro è interessato al data mining sia nel mondo aziendale che in quello scientifico.*

*An integrated view of IT and business processes through extended IT governance allows financial institutions to innovate operations which improve business and organizational performance. However, financial institutions still face challenges with CRM systems in delivering expected results due to lack of complete business integration.*

*Increased exchange of knowledge between customers and the amount of such data available is steadily becoming a challenge for companies,*

*especially in extending internal systems to global information systems with the purpose to collect and update data on a global scale. In this book, Prof. Rajola analyses different aspects of CRM systems taking both an organizational and a technological perspective. He adopts a theoretical framework to unpack issues associated with the need for companies to integrate operations and business processes. The emphasis is then drawn to development of effective CRM (and CRM 2.0) initiatives by making use of illustrative case studies of successful CRM systems implementation in the financial industry. The framework adopted in this book can be used by both scholars and managers to evaluate the interdependencies between operations, business processes, and CRM systems. .*

*This book constitutes the refereed proceedings of the 15th International Symposium on Methodologies for Intelligent Systems, ISMIS 2005, held in Saratoga Springs, NY, USA in May 2005. The 69 revised full papers presented together with 2 invited papers were carefully reviewed and selected from close to 200 submissions. The papers are organized in topical sections on knowledge discovery and data mining, intelligent information systems, information and knowledge integration, soft computing, clustering, Web data processing, AI logics, applications, intelligent information retrieval, and knowledge representation.*

*Visual Data Mining—Opening the Black Box Knowledge discovery holds the promise of insight into large, otherwise opaque datasets. The nature of what makes a rule interesting to a user has been discussed widely but most agree that it is a subjective quality based on the practical usefulness of the information. Being subjective, the user needs to provide feedback to the system and, as is the case for all systems, the sooner the feedback is given the quicker it can influence the behavior of the system. There have been some impressive research activities over the past few years but the question to be asked is why is visual data mining only now being investigated commercially? Certainly, there have been arguments for visual data mining for a number of years - Ankerst and others argued in 2002 that current (autonomous and opaque) analysis techniques are inefficient, as they fail to directly embed the user in dataset exploration and that a better solution involves the user and algorithm being more tightly coupled. Grinstein stated that the “current state of the art data mining tools are automated, but the perfect data mining tool is interactive and highly participatory,” while Han has suggested that the “data selection and viewing of mining results should be fully interactive, the mining process should be more interactive than the current state of the art and embedded applications should be fairly*

*automated . " A good survey on 3 techniques until 2003 was published by de Oliveira and Levkowitz .*

*Database and Expert Systems Applications*

*With an Introduction to the Algebraic Formulation*

*Metodi e strategie*

*Improving Business Reporting*

*Knowledge Discovery in Databases: PKDD 2003*

*Algebra for Symbolic Computation*

*Data Mining in Biomedicine*

This book is designed as an advanced undergraduate or a first-year graduate course for students from various disciplines like applied mathematics, physics, engineering. It has evolved while teaching courses on partial differential equations during the last decade at the Politecnico of Milan. The main purpose of these courses was twofold: on the one hand, to train the students to appreciate the interplay between theory and modelling in problems arising in the applied sciences and on the other hand to give them a solid background for numerical methods, such as finite differences and finite elements.

This book presents papers describing selected projects on the topic of data mining in fields like e commerce, medicine, and knowledge management. The objective is to report on current results and at the same time to give a review on the present activities in this field in Germany. An effort has been made to include the latest scientific results, as well as lead the reader to the various fields of activity and the problems related to them. Knowledge discovery on the basis of web data is a wide and fast growing area. E commerce is the principal theme of motivation in this field, as companies invest large sums in the electronic market, in order to maximize their profits and minimize their risks. Other applications are telelearning, teleteaching, service support, and citizen information systems. Concerning these applications, there is a great need to understand and support the user by means of recommendation systems, adaptive information systems, as well as by personalization. In this respect Giudici and Blanc present in their paper procedures for the generation of associative models from the tracking behavior of the user. Perner and Fiss present in their paper a strategy for intelligent e marketing with web mining and personalization. Methods and procedures for the generation of associative rules are presented in the paper by Hipp, Guntzer, and Nakhaeidizadeh.

This book constitutes the refereed proceedings of the 22 International Conference on Database and Expert Systems Applications, DEXA 2011, held in Toulouse, France, August 29 - September 2, 2011. The 52 revised full papers and 40 short papers presented were carefully reviewed and selected from 207 submissions. The papers are organized in topical sections on XML querying and views; data mining; queries and search; semantic web; information retrieval; business applications; user support; indexing; queries, views and data warehouses; ontologies; physical aspects of databases; Design; distribution; miscellaneous topics.

Surveillance Technologies and Early Warning Systems: Data Mining Applications for Risk Detection has never been more important, as the research this book presents an alternative to conventional surveillance and risk assessment. This book is a multidisciplinary excursion comprised of data mining, early warning systems, information technologies and risk management and explores the intersection of these components in problematic domains. It offers the ability to apply the most modern techniques to age old problems allowing for increased effectiveness in the response to future, eminent, and present risk.

Handbook of Research on Developing Smart Cities Based on Digital Twins

Data Mining Applications for Risk Detection

9th Congress of the Italian Association for Artificial Intelligence Milan, Italy, September 21-23,

2005, Proceedings

Approcci, metodi e tecnologie innovative per la Città Intelligente

Statistical Models for Data Analysis

Customer Relationship Management

Customer Relationship Management in the Financial Industry

1 "Change is inevitable." Embracing this quote we have tried to carefully experiment with the format of this conference, the 15th International Conference on Inductive Logic Programming, hopefully making it even better than it already was. But it will be up to you, the inquisitive reader of this book, to judge our success. The major changes comprised broadening the scope of the conference to include more diverse forms of non-propositional learning, to once again have tutorials on exciting new areas, and, for the first time, to also have a discovery challenge as a platform for collaborative work. This year the conference was co-located with ICML 2005, the 22nd International Conference on Machine Learning, and also in close proximity to IJCAI 2005, the 19th International Joint Conference on Artificial Intelligence. - location can be tricky, but we greatly benefited from the local support provided by Codrina Lauth, Michael May, and others. We were also able to invite all ILP and ICML participants to shared events including a poster session, an invited talk, and a tutorial about the exciting new area of "statistical relational learning". Two more invited talks were exclusively given to ILP participants and were presented as a kind of stock-taking-tingly so for the 15th event in a series-but also tried to provide a recipe for future endeavours.

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Like a data-guzzling turbo engine, advanced data mining has been powering post-genome biological studies for two decades. Reflecting this growth, Biological Data Mining presents comprehensive data mining concepts, theories, and applications in current biological and medical research. Each chapter is written by a distinguished team of interdisciplinary data mining researchers who cover state-of-the-art biological topics. The first section of the book discusses challenges and opportunities in analyzing and mining biological sequences and structures to gain insight into molecular functions. The second section addresses emerging computational challenges in interpreting high-throughput Omics data. The book then describes the



relationships between data mining and related areas of computing, including knowledge representation, information retrieval, and data integration for structured and unstructured biological data. The last part explores emerging data mining opportunities for biomedical applications. This volume examines the concepts, problems, progress, and trends in developing and applying new data mining techniques to the rapidly growing field of genome biology. By studying the concepts and case studies presented, readers will gain significant insight and develop practical solutions for similar biological data mining projects in the future.

The volume, devoted to variational analysis and its applications, collects selected and refereed contributions, which provide an outline of the field. The meeting of the title "Equilibrium Problems and Variational Models", which was held in Erice (Sicily) in the period June 23 - July 2 2000, was the occasion of the presentation of some of these papers; other results are a consequence of a fruitful and constructive atmosphere created during the meeting. New results, which enlarge the field of application of variational analysis, are presented in the book; they deal with the vectorial analysis, time dependent variational analysis, exact penalization, high order derivatives, geometric aspects, distance functions and log-quadratic proximal methodology. The new theoretical results allow one to improve in a remarkable way the study of significant problems arising from the applied sciences, as continuum model of transportation, unilateral problems, multicriteria spatial price models, network equilibrium problems and many others. As noted in the previous book "Equilibrium Problems: Nonsmooth Optimization and Variational Inequality Models", edited by F. Giannessi, A. Maugeri and P.M. Pardalos, Kluwer Academic Publishers, Vol. 58 (2001), the progress obtained by variational analysis has permitted to handle problems whose equilibrium conditions are not obtained by the minimization of a functional. These problems obey a more realistic equilibrium condition expressed by a generalized orthogonality (complementarity) condition, which enriches our knowledge of the equilibrium behaviour. Also this volume presents important examples of this formulation.

Theory, Techniques and Tools for Visual Analytics  
ECAI 2004

**Inductive Logic Programming**

**Mathematical Models and Numerical Simulation in  
Electromagnetism**

**Analisi dei dati e data mining**

**Visual Data Mining**

**15th International Symposium ISMIS 2005, Saratoga Springs,  
NY, USA, May 25–28, 2005, Proceedings**

This is the Golden Age for Artificial Intelligence. The world is becoming increasingly automated and wired together. This also increases the opportunities for AI to help people and commerce. Almost every sub field of AI had now been used in substantial applications. Some of the fields highlighted in this publication are: CBR Technology; Model Based Systems; Data Mining and Natural Language Techniques. Not only does this publication show the activities, capabilities and accomplishments of the sub fields, it also focuses on what is happening across the field as a whole.

This book deals with several topics in algebra useful for computer science applications and the symbolic treatment of algebraic problems, pointing out and discussing their algorithmic nature. The topics covered range from classical results such as the Euclidean algorithm, the Chinese remainder theorem, and polynomial interpolation, to p-adic expansions of rational and algebraic numbers and rational functions, to reach the problem of the polynomial factorisation, especially via Berlekamp's method, and the discrete Fourier transform. Basic algebra concepts are revised in a form suited for implementation on a computer algebra system.

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The main goal of the new field of data mining is the analysis of large and complex datasets. Some very important datasets may be derived from business and industrial activities. This kind of data is known as 'enterprise data'. The common characteristic of such datasets is that the analyst wishes to analyze them for the purpose of designing a more cost-effective strategy for optimizing some type of performance measure, such as reducing production time, improving quality, eliminating wastes, or maximizing profit. Data in this category may describe different scheduling scenarios in a manufacturing environment, quality control of some process, fault diagnosis in the operation of a machine or process, risk analysis when issuing credit to applicants, management of supply chains in a manufacturing system, or data for business related decision-making.

**Models, Methods, Simulations**

**Spectral Theory and Quantum Mechanics**

**Surveillance Technologies and Early Warning Systems: Data Mining Applications for Risk Detection**

**Services Customization Using Web Technologies**

**Knowledge Discovery in Databases: PKDD 2005**

**Metodi E Prospettive, Secc. XIII-XVIII**

**Data Mining IV**

This book pursues the accurate study of the mathematical foundations of Quantum Theories. It may be considered an introductory text on linear functional analysis with a focus on Hilbert spaces. Specific attention is given to spectral theory features that are relevant in physics. Having left the physical phenomenology in the background, it is the formal and logical aspects of the theory that are privileged. Another not lesser purpose is to collect in one place a number of useful rigorous statements on the mathematical structure of Quantum Mechanics, including some elementary, yet fundamental, results on the Algebraic Formulation of Quantum Theories. In the attempt to reach out to Master's or PhD students, both in physics and mathematics, the material is designed to be self-contained: it includes a

summary of point-set topology and abstract measure theory, together with an appendix on differential geometry. The book should benefit established researchers to organise and present the profusion of advanced material disseminated in the literature. Most chapters are accompanied by exercises, many of which are solved explicitly.

Il libro nasce dall'esigenza di coniugare esperienze e capacità procedurali diverse provenienti da vari ambiti disciplinari, quali l'informatica e la statistica, al fine di ricercare ed individuare percorsi e relazioni legate alla conoscenza. In un contesto di business, la conoscenza scoperta può avere un valore strategico per le aziende perchè consente di aumentare i profitti, riducendo i costi oppure aumentando le entrate con il conseguente aumento del ROI. Il volume è rivolto sia a studenti universitari e ricercatori, che a professionisti e manager aziendali che vogliono approfondire gli aspetti algoritmici delle tecniche di Data mining: lo studio degli algoritmi e delle principali tecniche è essenziale per conoscere meglio come la tecnologia possa essere applicata ai diversi tipi di dati e quindi anche diverse problematiche di business. Il testo pone volutamente l'attenzione sugli aspetti procedurali e di calcolo della metodologia, differenziandosi dagli altri testi in italiano che inquadrano puramente il contesto statistico. Il materiale esposto può essere utile a quanti vogliono completare la loro formazione scientifica in questa disciplina.

The European Conference on Machine Learning (ECML) and the European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD) were jointly organized this year for the 7th time in a row, after some years of mutual independence before. After Freiburg (2001), Helsinki (2002), Cavtat (2003) and Pisa (2004), Porto received the 16th edition of ECML and the 9th PKDD in October 3–7. Having the two conferences together seems to be working well: 585 different paper submissions were received for both events, which maintains the high submission standard of last year. Of these, 335 were submitted to ECML only, 220 to PKDD only and 30 to both. Such a high volume of scientific work required a tremendous effort from Area Chairs, Program Committee members and some additional reviewers. On average, PC members had 10 papers to evaluate, and Area Chairs had 25 papers to decide upon. We managed to have 3 highly qualified independent reviews per paper (with very few exceptions) and one additional overall input from one of the Area Chairs. After the authors' responses and the online discussions for many of the papers, we arrived at the final selection of 40 regular papers for ECML and 35 for PKDD. Besides these, 32 others were accepted as short papers for ECML and 35 for PKDD. This represents a joint acceptance rate of around 13% for regular papers and 25% overall. We thank all involved for all the effort with reviewing and selection of papers.

Besides the core technical program, ECML and PKDD had 6 invited speakers, 10 workshops, 8 tutorials and a Knowledge Discovery Challenge.

This book constitutes the refereed proceedings of the 7th European Conference on Principles and Practice of Knowledge Discovery in Databases,

PKDD 2003, held in Cavtat-Dubrovnik, Croatia in September 2003 in conjunction with ECML 2003. The 40 revised full papers presented together with 4 invited contributions were carefully reviewed and, together with another 40 ones for ECML 2003, selected from a total of 332 submissions. The papers address all current issues in data mining and knowledge discovery in databases including data mining tools, association rule mining, classification, clustering, pattern mining, multi-relational classifiers, boosting, kernel methods, learning Bayesian networks, inductive logic programming, user preferences mining, time series analysis, multi-view learning, support vector machine, pattern mining, relational learning, categorization, information extraction, decision making, prediction, and decision trees.

New Rules, New Opportunities, New Trends

15th International Conference, ILP 2005, Bonn, Germany, August 10-13, 2005, Proceedings

AI\*IA 2005: Advances in Artificial Intelligence

Biological Data Mining

Analisi dei dati e data mining per le decisioni aziendali

Organizational and Technological Perspectives

Foundations of Intelligent Systems

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Companies and financial institutions are employing operational information systems in an efficient way. While they have consolidated a strong level of knowledge in management information systems, there is still a lack of knowledge on the right way to apply customer relationship management (CRM) systems under a business perspective. Most of the companies are still having problems in evaluating how CRM can meet with the expected results. The level of complexity is perceived both under a technological and organizational point of view. A complete innovation process and heavy change management initiatives should be ensured in order to have effective and successful systems. This book offers a solid theoretical and practical perspective on how to face CRM projects, describing the most appropriate technologies and organizational issues that have to be considered. Some explaining cases have been included as well.

Data mining Metodi e strategie Springer Science & Business Media

The papers in this book cover issues related to the development of novel statistical models for the analysis of data. They offer solutions for relevant problems in statistical data analysis and contain the explicit derivation of the proposed models as well as their implementation. The book assembles the selected and refereed proceedings of the biannual conference of the Italian Classification and Data Analysis Group (CLADAG), a section of the Italian Statistical Society. ?

22nd International Conference, DEXA 2011, Bilbao, Spain, August 29 - September 2, 2011, Proceedings, Part II

City Sensing. Approcci, metodi e tecnologie innovative per la Città Intelligente

Handbook of Research on Advanced Research Methodologies for a Digital Society

Advances in Data Mining

7th European Conference on Principles and Practice of Knowledge Discovery in Databases, Cavtat-Dubrovnik, Croatia, September 22-26, 2003, Proceedings

Recent Advances in Data Mining of Enterprise Data