



# Recommender An Introduction **Systems**

DIETMAR JANNACH

MARKUS ZANKER

ALEXANDER FELFERNIG

GERHARD FRIEDRICH

CAMBRIDGE

# Recommender Systems An Introduction Book

**Nikos Manouselis,Hendrik  
Drachsler,Katrien Verbert,Erik Duval**

## **Recommender Systems An Introduction Book:**

Recommender Systems Dietmar Jannach, Markus Zanker, Alexander Felfernig, Gerhard Friedrich, 2010-09-30 In this age of information overload people use a variety of strategies to make choices about what to buy how to spend their leisure time and even whom to date Recommender systems automate some of these strategies with the goal of providing affordable personal and high quality recommendations This book offers an overview of approaches to developing state of the art recommender systems The authors present current algorithmic approaches for generating personalized buying proposals such as collaborative and content based filtering as well as more interactive and knowledge based approaches They also discuss how to measure the effectiveness of recommender systems and illustrate the methods with practical case studies The final chapters cover emerging topics such as recommender systems in the social web and consumer buying behavior theory Suitable for computer science researchers and students interested in getting an overview of the field this book will also be useful for professionals looking for the right technology to build real world recommender systems Recommender Systems, 2010 Recommender Systems Dietmar Jannach, Associate Professor Markus Zanker, Professor Alexander Felfernig, Gerhard Friedrich, 2014-05-14 This book introduces different approaches to developing recommender systems that automate choice making strategies to provide affordable personal and high quality recommendations *Group Recommender Systems* Alexander Felfernig, Ludovico Boratto, Martin Stettinger, Marko Tkalčič, 2023-11-27 This book discusses different aspects of group recommender systems which are systems that help to identify recommendations for groups instead of single users In this context the authors present different related techniques and applications The book includes in depth summaries of group recommendation algorithms related industrial applications different aspects of preference construction and explanations user interface aspects of group recommender systems and related psychological aspects that play a crucial role in group decision scenarios Recommender Systems Handbook Francesco Ricci, Lior Rokach, Bracha Shapira, 2015-11-17 This second edition of a well received text with 20 new chapters presents a coherent and unified repository of recommender systems major concepts theories methodologies trends and challenges A variety of real world applications and detailed case studies are included In addition to wholesale revision of the existing chapters this edition includes new topics including decision making and recommender systems reciprocal recommender systems recommender systems in social networks mobile recommender systems explanations for recommender systems music recommender systems cross domain recommendations privacy in recommender systems and semantic based recommender systems This multi disciplinary handbook involves world wide experts from diverse fields such as artificial intelligence human computer interaction information retrieval data mining mathematics statistics adaptive user interfaces decision support systems psychology marketing and consumer behavior Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas methods and techniques for developing more efficient cost effective and

accurate recommender systems      Recommender Systems: Algorithms and their Applications Pushpendu Kar, Monideepa Roy, Sujoy Datta, 2024-06-11 The book includes a thorough examination of the many types of algorithms for recommender systems as well as a comparative analysis of them It addresses the problem of dealing with the large amounts of data generated by the recommender system The book also includes two case studies on recommender system applications in healthcare monitoring and military surveillance It demonstrates how to create attack resistant and trust centric recommender systems for sensitive data applications This book provides a solid foundation for designing recommender systems for use in healthcare and defense      *Recommender Systems for Location-based Social Networks* Panagiotis Symeonidis, Dimitrios Ntempos, Yannis Manolopoulos, 2014-02-08 Online social networks collect information from users social contacts and their daily interactions co tagging of photos co rating of products etc to provide them with recommendations of new products or friends Lately technological progressions in mobile devices i e smart phones enabled the incorporation of geo location data in the traditional web based online social networks bringing the new era of Social and Mobile Web The goal of this book is to bring together important research in a new family of recommender systems aimed at serving Location based Social Networks LBSNs The chapters introduce a wide variety of recent approaches from the most basic to the state of the art for providing recommendations in LBSNs The book is organized into three parts Part 1 provides introductory material on recommender systems online social networks and LBSNs Part 2 presents a wide variety of recommendation algorithms ranging from basic to cutting edge as well as a comparison of the characteristics of these recommender systems Part 3 provides a step by step case study on the technical aspects of deploying and evaluating a real world LBSN which provides location activity and friend recommendations The material covered in the book is intended for graduate students teachers researchers and practitioners in the areas of web data mining information retrieval and machine learning      Recommender Systems Charu C. Aggarwal, 2016-03-28 This book comprehensively covers the topic of recommender systems which provide personalized recommendations of products or services to users based on their previous searches or purchases Recommender system methods have been adapted to diverse applications including query log mining social networking news recommendations and computational advertising This book synthesizes both fundamental and advanced topics of a research area that has now reached maturity The chapters of this book are organized into three categories Algorithms and evaluation These chapters discuss the fundamental algorithms in recommender systems including collaborative filtering methods content based methods knowledge based methods ensemble based methods and evaluation Recommendations in specific domains and contexts the context of a recommendation can be viewed as important side information that affects the recommendation goals Different types of context such as temporal data spatial data social data tagging data and trustworthiness are explored Advanced topics and applications Various robustness aspects of recommender systems such as shilling systems attack models and their defenses are discussed In addition recent topics such as learning to rank multi

armed bandits group systems multi criteria systems and active learning systems are introduced together with applications Although this book primarily serves as a textbook it will also appeal to industrial practitioners and researchers due to its focus on applications and references Numerous examples and exercises have been provided and a solution manual is available for instructors

**Recommender Systems** Monideepa Roy,Pushpendu Kar,Sujoy Datta,2023-06-19 Recommender Systems A Multi Disciplinary Approach presents a multi disciplinary approach for the development of recommender systems It explains different types of pertinent algorithms with their comparative analysis and their role for different applications This book explains the big data behind recommender systems the marketing benefits how to make good decision support systems the role of machine learning and artificial networks and the statistical models with two case studies It shows how to design attack resistant and trust centric recommender systems for applications dealing with sensitive data Features of this book Identifies and describes recommender systems for practical uses Describes how to design train and evaluate a recommendation algorithm Explains migration from a recommendation model to a live system with users Describes utilization of the data collected from a recommender system to understand the user preferences Addresses the security aspects and ways to deal with possible attacks to build a robust system This book is aimed at researchers and graduate students in computer science electronics and communication engineering mathematical science and data science

**Recommender Systems** Dietmar Jannach,2010 In this age of information overload people use a variety of strategies to make choices about what to buy how to spend their leisure time and even whom to date Recommender systems automate some of these strategies with the goal of providing affordable personal and high quality recommendations This book offers an overview of approaches to developing state of the art recommender systems The authors present current algorithmic approaches for generating personalized buying proposals such as collaborative and content based filtering as well as more interactive and knowledge based approaches They also discuss how to measure the effectiveness of recommender systems and illustrate the methods with practical case studies The final chapters cover emerging topics such as recommender systems in the social web and consumer buying behavior theory Suitable for computer science researchers and students interested in getting an overview of the field this book will also be useful for professionals looking for the right technology to build real world recommender systems

Semantics in Adaptive and Personalised Systems Pasquale Lops,Cataldo Musto,Fedelucio Narducci,Giovanni Semeraro,2019-09-18 This monograph gives a complete overview of the techniques and the methods for semantics aware content representation and shows how to apply such techniques in various use cases such as recommender systems user profiling and social media analysis Throughout the book the authors provide an extensive analysis of the techniques currently proposed in the literature and cover all the available tools and libraries to implement and exploit such methodologies in real world scenarios The book first introduces the problem of information overload and the reasons why content based information needs to be taken into account Next the basics of Natural Language Processing are

provided by describing operations such as tokenization stopword removal lemmatization stemming part of speech tagging along with the main problems and issues Finally the book describes the different approaches for semantics aware content representation such approaches are split into exogenous and endogenous ones depending on whether external knowledge sources as DBpedia or geometrical models and distributional semantics are used respectively To conclude several successful use cases and an extensive list of available tools and resources to implement the approaches are shown

**Semantics in Adaptive and Personalised Systems** definitely fills the gap between the extensive literature on content based recommender systems natural language processing and the different types of semantics aware representations

**Recommender Systems for the Social Web** José J. Pazos Arias, Ana Fernández Vilas, Rebeca P. Díaz Redondo, 2012-01-24 The recommendation of products content and services cannot be considered newly born although its widespread application is still in full swing While its growing success in numerous sectors the progress of the Social Web has revolutionized the architecture of participation and relationship in the Web making it necessary to restate recommendation and reconciling it with Collaborative Tagging as the popularization of authoring in the Web and Social Networking as the translation of personal relationships to the Web Precisely the convergence of recommendation with the above Social Web pillars is what motivates this book which has collected contributions from well known experts in the academy and the industry to provide a broader view of the problems that Social Recommenders might face with If recommender systems have proven their key role in facilitating the user access to resources on the Web when sharing resources has become social it is natural for recommendation strategies in the Social Web era take into account the users point of view and the relationships among users to calculate their predictions This book aims to help readers to discover and understand the interplay among legal issues such as privacy technical aspects such as interoperability and scalability and social aspects such as the influence of affinity trust reputation and likeness when the goal is to offer recommendations that are truly useful to both the user and the provider

**Recommender Systems for Learning** Nikos Manouselis, Hendrik Drachler, Katrien Verbert, Erik Duval, 2012-08-28 Technology enhanced learning TEL aims to design develop and test sociotechnical innovations that will support and enhance learning practices of both individuals and organisations It is therefore an application domain that generally covers technologies that support all forms of teaching and learning activities Since information retrieval in terms of searching for relevant learning resources to support teachers or learners is a pivotal activity in TEL the deployment of recommender systems has attracted increased interest This brief attempts to provide an introduction to recommender systems for TEL settings as well as to highlight their particularities compared to recommender systems for other application domains

**Group Recommender Systems** Alexander Felfernig, Ludovico Boratto, Martin Stettinger, Marko Tkalčić, 2018-03-07 This book presents group recommender systems which focus on the determination of recommendations for groups of users The authors summarize different technologies and applications of group recommender systems They include an in depth discussion of state of the art algorithms an overview of

industrial applications an inclusion of the aspects of decision biases in groups and corresponding de biasing approaches The book includes a discussion of basic group recommendation methods aspects of human decision making in groups and related applications A discussion of open research issues is included to inspire new related research The book serves as a reference for researchers and practitioners working on group recommendation related topics **Proceedings of the ACM**

**Conference on Electronic Commerce (EC'99)** ,1999 *Sparsity, Scalability, and Distribution in Recommender Systems*

Badrul Munir Sarwar,2001 *Recommender Systems Handbook* Francesco Ricci,Lior Rokach,Bracha Shapira,2022-04-21

This third edition handbook describes in detail the classical methods as well as extensions and novel approaches that were more recently introduced within this field It consists of five parts general recommendation techniques special recommendation techniques value and impact of recommender systems human computer interaction and applications The first part presents the most popular and fundamental techniques currently used for building recommender systems such as collaborative filtering semantic based methods recommender systems based on implicit feedback neural networks and context aware methods The second part of this handbook introduces more advanced recommendation techniques such as session based recommender systems adversarial machine learning for recommender systems group recommendation techniques reciprocal recommenders systems natural language techniques for recommender systems and cross domain approaches to recommender systems The third part covers a wide perspective to the evaluation of recommender systems with papers on methods for evaluating recommender systems their value and impact the multi stakeholder perspective of recommender systems the analysis of the fairness novelty and diversity in recommender systems The fourth part contains a few chapters on the human computer dimension of recommender systems with research on the role of explanation the user personality and how to effectively support individual and group decision with recommender systems The last part focusses on application in several important areas such as food music fashion and multimedia recommendation This informative third edition handbook provides a comprehensive yet concise and convenient reference source to recommender systems for researchers and advanced level students focused on computer science and data science Professionals working in data analytics that are using recommendation and personalization techniques will also find this handbook a useful tool

**Mining Influence in Recommender Systems** Al Mumunur Rashid,2007 Digital Libraries ,2000 Distributed Computing and Internet Technology ,2005

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