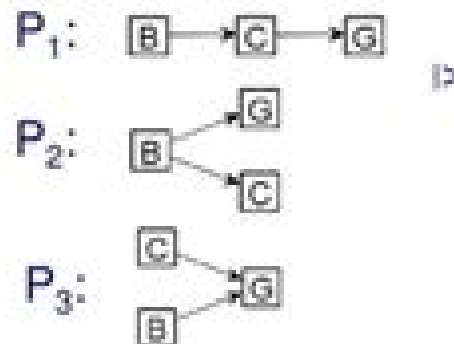


Patterns discovery

- Existing approaches: mining on traces
 - Patterns abstraction
 - Episodes discovery

Case Id	Trace
1	<Start,b,c,d,g,End>
2	<Start,a,b,d,c,g,i,End>
3	<Start,a,e,f,h,i,End>
4	<Start,b,c,d,g,e,f,h, End>

Episodes
Abstraction

|>

Patterns Of Discovery

Emilie Sanchez



Patterns Of Discovery:

Patterns of Discovery Norwood Russell Hanson, 1979

Patterns of Discovery Norwood Russell Hanson, 1958

Patterns of Discovery in the Social Sciences Paul Diesing, Social scientists are often vexed because their work does not satisfy the criteria of scientific methodology developed by philosophers of science and logicians who use the natural sciences as their model. In this study Paul Diesing defines science not by reference to these arbitrary norms delineated by those outside the field but in terms of norms implicit in what social scientists actually do in their everyday work. *Patterns of Discovery in the Social Sciences* is a detailed and systematic report on the full range of methods and procedures as they are actually practiced. Neither a how to do it handbook nor a lofty philosophical treatise, this is a truly interdisciplinary study of the basic modes of procedure in scientific inquiry with a special emphasis on normative politics. Diesing treats scientific methods as inductive logics of discovery in continuous evolution. He emphasizes the variety of methods available, discusses the advantages and disadvantages of specific methods, and in particular provides an account of mathematical modeling and of participant observation. The book will be of immense interest to all working social scientists, graduate students in any of the social science disciplines, and philosophers of science. It can also be employed as a text or supplement in courses in sociological methods and philosophy of science. This book is also a noteworthy companion to Diesing's major work on *Science and Ideology in the Policy Sciences*. Paul Diesing is professor emeritus of political science at the State University of New York at Buffalo. He did his graduate studies in philosophy from the University of Chicago and has taught at that university, the University of Illinois, and the University of Colorado. Diesing has also been a faculty associate at the Buffalo Center for International Conflict Studies, where he participated in the Center's program of researching in bargaining theory and international crises. He is the author of *Reason in Society: Five Types of Decisions and Their Social Conditions* and *Science and Ideology in the Policy Sciences*.

Connections H. Peter Alesso, Craig F. Smith, 2008-01-14 In their fascinating analysis of the recent history of information technology, H. Peter Alesso and Craig F. Smith reveal the patterns in discovery and innovation that have brought us to the present tipping point. A generation from now, every individual will have personally tailored access to the whole of knowledge; the sooner we all begin to think about how we got here and where we're going the better. This exciting book is an essential first step. From the Foreword by James Burke. Many people envision scientists as dispassionate characters who slavishly repeat experiments until eureka, something unexpected happens. Actually, there is a great deal more to the story of scientific discovery, but seeing the big picture is not easy. *Connections: Patterns of Discovery* uses the primary tools of forecasting and three archetypal patterns of discovery: Serendipity, Proof of Principle, and 1% Inspiration and 99% Perspiration to discern relationships of past developments and synthesize a cohesive and compelling vision for the future. It challenges readers to think of the consequences of extrapolating trends such as Moore's Law to either reach real machine intelligence or retrench in the face of physical limitations. From this perspective, the book draws the big

picture for the Information Revolution s innovations in chips devices software and networks With a Foreword by James Burke and bursting with fascinating detail throughout Connections Patterns of Discovery is a must read for computer scientists technologists programmers hardware and software developers students and anyone with an interest in tech savvy topics

Database Systems for Advanced Applications. DASFAA 2020 International Workshops Yunmook Nah, Chulyun Kim, Seon-Young Kim, Yang-Sae Moon, Steven Euijong Whang, 2020-09-21 The LNCS 12115 constitutes the workshop papers which were held also online in conjunction with the 25th International Conference on Database Systems for Advanced Applications in September 2020 The complete conference includes 119 full papers presented together with 19 short papers plus 15 demo papers and 4 industrial papers in this volume were carefully reviewed and selected from a total of 487 submissions DASFAA 2020 presents this year following five workshops The 7th International Workshop on Big Data Management and Service BDMS 2020 The 6th International Symposium on Semantic Computing and Personalization SeCoP 2020 The 5th Big Data Quality Management BDQM 2020 The 4th International Workshop on Graph Data Management and Analysis GDMA 2020 The 1st International Workshop on Artificial Intelligence for Data Engineering AIDE 2020 Patterns of HCI Design and HCI Design of Patterns Ahmed Seffah, 2015-05-28 As interactive systems are quickly becoming integral to our everyday lives this book investigates how we can make these systems from desktop and mobile apps to more wearable and immersive applications more usable and maintainable by using HCI design patterns It also examines how we can facilitate the reuse of design practices in the development lifecycle of multi devices multi platforms and multi contexts user interfaces Effective design tools are provided for combining HCI design patterns and User Interface UI driven engineering to enhance design whilst differentiating between UI and the underlying system features Several examples are used to demonstrate how HCI design patterns can support this decoupling by providing an architectural framework for pattern oriented and model driven engineering of multi platforms and multi devices user interfaces Patterns of HCI Design and HCI Design of Patterns is for students academics and Industry specialists who are concerned with user interfaces and usability within the software development community **Patterns of Information Management** Mandy Chessell, Harald Smith, 2013-05-02 Use Best Practice Patterns to Understand and Architect Manageable Efficient Information Supply Chains That Help You Leverage All Your Data and Knowledge In the era of Big Data information pervades every aspect of the organization Therefore architecting and managing it is a multi disciplinary task Now two pioneering IBM architects present proven architecture patterns that fully reflect this reality Using their pattern language you can accurately characterize the information issues associated with your own systems and design solutions that succeed over both the short and long term Building on the analogy of a supply chain Mandy Chessell and Harald C Smith explain how information can be transformed enriched reconciled redistributed and utilized in even the most complex environments Through a realistic end to end case study they help you blend overlapping information management SOA and BPM technologies that are often viewed as

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Detection Katharina Morik, Jean-Francois Boulicaut, Arno Siebes, 2005-07-11 Introduction The dramatic increase in available computer storage capacity over the last 10 years has led to the creation of very large databases of scientific and commercial information The need to analyze these masses of data has led to the evolution of the new field knowledge discovery in databases KDD at the intersection of machine learning statistics and database technology Being interdisciplinary by nature the field offers the opportunity to combine the expertise of different fields into a common objective Moreover within each field diverse methods have been developed and justified with respect to different quality criteria We have to investigate how these methods can contribute to solving the problem of KDD Traditionally KDD was seeking to find global models for the data that explain most of the instances of the database and describe the general structure of the data Examples are statistical time series models cluster models logic programs with high coverage or classification models like decision trees or linear decision functions In practice though the use of these models often is very limited because global models tend to find only the obvious patterns in the data which domain experts already are aware of What is really of interest to the users are the local patterns that deviate from the already known background knowledge David Hand who organized a workshop in 2002 proposed the new field of local patterns

Data Mining Patterns: New Methods and Applications Poncelet, Pascal, Masseglia, Florent, Teisseire, Maguelonne, 2007-08-31 This book provides an overall view of recent solutions for mining and explores new patterns offering theoretical frameworks and presenting challenges and possible solutions concerning pattern extractions emphasizing research techniques and real world applications It portrays research applications in data models methodologies for mining patterns multi relational and multidimensional pattern mining fuzzy data mining data streaming and incremental mining Provided by publisher *Intelligent Data Analysis for Real-Life Applications: Theory and Practice* Magdalena-Benedict, Rafael, 2012-06-30 With the recent and enormous increase in the amount of available data sets of all kinds applying effective and efficient techniques for analyzing and extracting information

from that data has become a crucial task Intelligent Data Analysis for Real Life Applications Theory and Practice investigates the application of Intelligent Data Analysis IDA to these data sets through the design and development of algorithms and techniques to extract knowledge from databases This pivotal reference explores practical applications of IDA and it is essential for academic and research libraries as well as students researchers and educators in data analysis application development and database management

Encyclopedia of Data Warehousing and Mining, Second Edition Wang, John, 2008-08-31 There are more than one billion documents on the Web with the count continually rising at a pace of over one million new documents per day As information increases the motivation and interest in data warehousing and mining research and practice remains high in organizational interest The Encyclopedia of Data Warehousing and Mining Second Edition offers thorough exposure to the issues of importance in the rapidly changing field of data warehousing and mining This essential reference source informs decision makers problem solvers and data mining specialists in business academia government and other settings with over 300 entries on theories methodologies functionalities and applications

Pattern in Music Darrell Conklin, 2023-11-14 This book presents analyses of pattern in music from different computational and mathematical perspectives A central purpose of music analysis is to represent discover and evaluate repeated structures within single pieces or within larger corpora of related pieces In the chapters of this book music corpora are structured as monophonic melodies polyphony or chord sequences Patterns are represented either extensionally as locations of pattern occurrences in the music or intensionally as sequences of pitch or chord features rhythmic profiles geometric point sets and logical expressions The chapters cover both deductive analysis where music is queried for occurrences of a known pattern and inductive analysis where patterns are found using pattern discovery algorithms Results are evaluated using a variety of methods including visualization contrasting corpus analysis and reference to known and expected patterns Pattern in Music will be a key resource for academics researchers and advanced students of music musicology music analyses mathematical music theory computational musicology and music informatics This book was originally published as a special issue of the Journal of Mathematics and Music

Machine Learning: Concepts, Methodologies, Tools and Applications Management Association, Information Resources, 2011-07-31 This reference offers a wide ranging selection of key research in a complex field of study discussing topics ranging from using machine learning to improve the effectiveness of agents and multi agent systems to developing machine learning software for high frequency trading in financial markets Provided by publishe

Music Semiotics: A Network of Significations Esti Sheinberg, 2017-07-05 United in their indebtedness to the scholarship of Raymond Monelle an international group of contributors including leading authorities on music and culture come together in this state of the art volume to investigate different ways in which music signifies Music semiotics asks what music signifies as well as how the signification process takes place Looking at the nature of musical texts and music s narrativity a number of the essays in this collection delve into the relationship between music and philosophy literature

poetry folk traditions and the theatre with opera a genre that particularly lends itself to this mode of investigation Other contributions look at theories of musical markedness metaphor and irony using examples and specific musical texts to serve as case studies to validate their theoretical approaches Musical works discussed include those by Haydn Mozart Beethoven Schumann Wagner Stravinsky Bart Xenakis Kutavicius and John Adams offering stimulating discussions of music that attest to its beauty as much as to its intellectual challenge Taking Monelle s writing as a model the contributions adhere to a method of logical argumentation presented in a civilized and respectful way even and particularly when controversial issues are at stake keeping in mind that contemplating the significance of music is a way to contemplate life itself

Databases and Information Systems II Hele-Mai Haav,Ahto Kalja,2013-03-09 Databases and database systems in particular are considered as kernels of any Information System IS The rapid growth of the web on the Internet has dramatically increased the use of semi structured data and the need to store and retrieve such data in a database The database community quickly reacted to these new requirements by providing models for semi structured data and by integrating database research to XML web services and mobile computing On the other hand IS community who never than before faces problems of IS development is seeking for new approaches to IS design Ontology based approaches are gaining popularity because of a need for shared conceptualisation by different stakeholders of IS development teams Many web based IS would fail without domain ontologies to capture meaning of terms in their web interfaces This volume contains revised versions of 24 best papers presented at the th 5 International Baltic Conference on Databases and Information Systems BalticDB IS 2002 The conference papers present original research results in the novel fields of IS and databases such as web IS XML and databases data mining and knowledge management mobile agents and databases and UML based IS development methodologies The book s intended readers are researchers and practitioners who are interested in advanced topics on databases and IS

Inclusion of Pattern Languages and Related Problems Dominik Freydenberger,2012 A pattern is a word that consists of variables and terminal symbols The pattern language that is generated by a pattern A is the set of all terminal words that can be obtained from A by uniform replacement of variables with terminal words For example the pattern A xaxa where x is a variable and a is a terminal symbol generates the set of all squares that end on a Due to their simple definition pattern languages have various connections to a wide range of other areas in computer science and mathematics On the other hand many of the canonical questions are surprisingly difficult for pattern languages The present thesis discusses various aspects of the inclusion problem of pattern languages It can be divided in two parts The first one examines the decidability of the inclusion problem under various restrictions and the related question of minimizability of regular expressions with repetition operators The second part deals with descriptive patterns the smallest generalizations of arbitrary languages through pattern languages smallest with respect to the inclusion relation Main topics are the existence and the discoverability of descriptive patterns

Advanced Intelligent Computing Theories and Applications. With Aspects

of Theoretical and Methodological Issues De-Shuang Huang, Donald C. Wunsch, Daniel S. Levine, Kang-Hyun Jo, 2008-09-08 The International Conference on Intelligent Computing ICIC was formed to provide an annual forum dedicated to the emerging and challenging topics in artificial intelligence machine learning bioinformatics and computational biology etc It aims to bring together researchers and practitioners from both academia and industry to share ideas problems and solutions related to the multifaceted aspects of intelligent computing ICIC 2008 held in Shanghai China September 15-18 2008 constituted the 4th International Conference on Intelligent Computing It built upon the success of ICIC 2007 ICIC 2006 and ICIC 2005 held in Qingdao Kunming and Hefei China 2007 2006 and 2005 respectively This year the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications Therefore the theme for this conference was Emerging Intelligent Computing Technology and Applications Papers focusing on this theme were solicited addressing theories methodologies and applications in science and technology

Hands-on Pattern Mining Uday Kiran Rame, 2025-08-11 This book introduces pattern mining by presenting various pattern mining techniques and giving hands-on experience with each technique Pattern mining is a popular data mining technique with many real-world applications and involves discovering all user interest-based patterns that may exist in a database Several models and numerous algorithms were described in the literature to find these patterns in binary databases quantitative databases uncertain databases and streams Since the lack of a Python toolkit containing these algorithms has limited the wide adaptability of pattern mining techniques the author developed Pattern Mining PAMI Python library which currently contains 80 algorithms to discover useful patterns in transactional databases temporal databases quantitative databases and graphs The book consists of three main parts if supportLists endif Introduction The first chapter introduces big data types of learning techniques and the importance of pattern mining The second chapter introduces the PAMI library its organizational structure installation and usage if supportLists endif Pattern mining algorithms and examples The following chapters present the state-of-the-art techniques for discovering user interest-based patterns in 1 transactional databases 2 temporal databases 3 quantitative databases 4 uncertain databases 5 sequential databases and 6 graphs if supportLists endif Applications The book concludes with several applications where the predicted knowledge using TensorFlow and PyTorch was transformed into a database to discover future trends or patterns

Machine Learning and Data Mining in Pattern Recognition Petra Pernert, 2018-07-09 This two-volume set LNAI 10934 and LNAI 10935 constitutes the refereed proceedings of the 14th International Conference on Machine Learning and Data Mining in Pattern Recognition MLDM 2018 held in New York NY USA in July 2018 The 92 regular papers presented in this two-volume set were carefully reviewed and selected from 298 submissions The topics range from theoretical topics for classification clustering association rule and pattern mining to specific data mining methods for

the different multi media data types such as image mining text mining video mining and Web mining *Advances in Computers* Marvin Zelkowitz, Chau-wen Tseng, 2006-12-11 The field of bioinformatics and computational biology arose due to the need to apply techniques from computer science statistics informatics and applied mathematics to solve biological problems Scientists have been trying to study biology at a molecular level using techniques derived from biochemistry biophysics and genetics Progress has greatly accelerated with the discovery of fast and inexpensive automated DNA sequencing techniques As the genomes of more and more organisms are sequenced and assembled scientists are discovering many useful facts by tracing the evolution of organisms by measuring changes in their DNA rather than through physical characteristics alone This has led to rapid growth in the related fields of phylogenetics the study of evolutionary relatedness among various groups of organisms and comparative genomics the study of the correspondence between genes and other genomic features in different organisms Comparing the genomes of organisms has allowed researchers to better understand the features and functions of DNA in individual organisms as well as provide insights into how organisms evolve over time The first four chapters of *Advances in Computers* focus on algorithms for comparing the genomes of different organisms Possible concrete applications include identifying the basis for genetic diseases and tracking the development and spread of different forms of Avian flu As researchers begin to better understand the function of DNA attention has begun shifting towards the actual proteins produced by DNA The final two chapters explore proteomic techniques for analyzing proteins directly to identify their presence and understand their physical structure Written by active PhD researchers in computational biology and bioinformatics

Reviewing **Patterns Of Discovery**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Patterns Of Discovery**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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