



**A SYMBOLIC  
AND CONNECTIONIST  
APPROACH TO LEGAL  
INFORMATION RETRIEVAL**



**DANIEL E. ROSE**

# Symbolic And Connectionist Approach To Legal Information Retrieval

**Peter Jackson**



## **Symbolic And Connectionist Approach To Legal Information Retrieval:**

A Symbolic and Connectionist Approach To Legal Information Retrieval Daniel E. Rose, 2013-06-17 Many existing information retrieval IR systems are surprisingly ineffective at finding documents relevant to particular topics Traditional systems are extremely brittle failing to retrieve relevant documents unless the user's exact search string is found They support only the most primitive trial and error interaction with their users and are also static Even systems with so called relevance feedback are incapable of learning from experience with users SCALIR a Symbolic and Connectionist Approach to Legal Information Retrieval a system for assisting research on copyright law has been designed to address these problems By using a hybrid of symbolic and connectionist artificial intelligence techniques SCALIR develops a conceptual representation of document relationships without explicit knowledge engineering SCALIR's direct manipulation interface encourages users to browse through the space of documents It then uses these browsing patterns to improve its performance by modifying its representation resulting in a communal repository of expertise for all of its users SCALIR's representational scheme also mirrors the hybrid nature of the Anglo American legal system While certain legal concepts are precise and rule like others which legal scholars call open textured are subject to interpretation The meaning of legal text is established through the parallel and distributed precedence based judicial appeal system SCALIR represents documents and terms as nodes in a network capturing the duality of the legal system by using symbolic semantic network and connectionist links The former correspond to a priori knowledge such as the fact that one case overturned another on appeal The latter correspond to statistical inferences such as the relevance of a term describing a case SCALIR's text corpus includes all federal cases on copyright law The hybrid representation also suggests a way to resolve the apparent incompatibility between the two prominent paradigms in artificial intelligence the classical symbol manipulation approach and the neurally inspired connectionist approach Part of the book focuses on a characterization of the two paradigms and an investigation of when and how as in the legal research domain they can be effectively combined

*A Symbolic and Connectionist Approach to Legal Information Retrieval* Daniel E. Rose, 1994 First Published in 1994 Routledge is an imprint of Taylor Francis an informa company

*A Symbolic and Connectionist Approach to Legal Information Retrieval* Daniel Eric Rose, 1991 **Library of Congress Subject Headings** Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013

*Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office, 2006

Legal Knowledge Representation: Automatic Text Analysis in Public International and European Law Erich Schweighofer, 1999-10-19 This volume is a presentation of all methods of legal knowledge representation from the point of view of jurisprudence as well as computer science A new method of automatic analysis of legal texts is presented in four case studies Law is seen as an information system with legally formalised information processes The achieved coverage of legal knowledge in information retrieval systems has to be followed by the next step conceptual indexing and automatic

analysis of texts Existing approaches of automatic knowledge representations do not have a proper link to the legal language in information systems The concept based model for semi automatic analysis of legal texts provides this necessary connection The knowledge base of descriptors context sensitive rules and meta rules formalises properly all important passages in the text corpora for automatic analysis Statistics and self organising maps give assistance in knowledge acquisition The result of the analysis is organised with automatically generated hypertext links Four case studies show the huge potential but also some drawbacks of this approach

**Technologies for Supporting Reasoning Communities and Collaborative Decision Making: Cooperative Approaches** Yearwood, John, Stranieri, Andrew, 2010-10-31 The information age has enabled unprecedented levels of data to be collected and stored At the same time society and organizations have become increasingly complex Consequently decisions in many facets have become increasingly complex but have the potential to be better informed Technologies for Supporting Reasoning Communities and Collaborative Decision Making Cooperative Approaches includes chapters from diverse fields of enquiry including decision science political science argumentation knowledge management cognitive psychology and business intelligence Each chapter illustrates a perspective on group reasoning that ultimately aims to lead to a greater understanding of reasoning communities and inform technological developments

**Database Applications Semantics** L. Mark, 2016-01-09 The number of new applications in need of database support is exploding and there is an increasing need to link and access database systems supporting these new applications via computer networks End users and non computer experts are becoming heavily involved in the set up management and use of database systems and this book provides the important database design methodologies and implementation technology which should be available for them as well as for computer experts

*Case-Based Reasoning Research and Development* Hector Munoz-Avila, 2005-08-11 This book constitutes the refereed proceedings of the 6th International Conference on Case Based Reasoning ICCBR 2005 held in Chicago IL USA in August 2005 The 19 revised full research papers and 26 revised poster papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from 74 submissions The papers address all current foundational theoretical and research aspects of case based reasoning as well as advanced applications either with innovative commercial deployment or practical social environmental or economic significance

Finding Out About Richard K. Belew, 2000 Explains how to build useful tools for searching collections of text and other media

**Progress in Artificial Intelligence** Goretí Marreiros, Bruno Martins, Ana Paiva, Bernardete Ribeiro, Alberto Sardinha, 2022-09-12 This book constitutes the proceedings of the 21st EPIA Conference on Artificial Intelligence EPIA 2022 which took place in Lisbon Portugal in August September 2022 The 64 papers presented in this volume were carefully reviewed and selected from 85 submissions They were organized in topical sections as follows AI4IS Artificial Intelligence for Industry and Societies AIL Artificial Intelligence and Law AIM Artificial Intelligence in Medicine AIPES Artificial Intelligence in Power and Energy Systems AITS Artificial Intelligence in Transportation Systems

AmIA Ambient Intelligence and Affective Environments GAI General AI IROBOT Intelligent Robotics KDBI Knowledge Discovery and Business Intelligence KRR Knowledge Representation and Reasoning MASTA Multi Agent Systems Theory and Applications TeMA Text Mining and Applications      **11th Annual Conference Cognitive Science Society Pod** Cognitive Science Society, 2014-01-02 First published in 1989 This Program discusses The Eleventh Annual Conference of the Cognitive Science Society August 1989 in Ann Arbor Michigan The book begins with 66 paper presentations and concludes with 59 poster presentations across over 1000 pages This program also includes a comprehensive author listing with affiliations and titles      **Mining Multimedia Documents** Wahiba Ben Abdessalem Karaa, Nilanjan Dey, 2017-04-21 The information age has led to an explosion in the amount of information available to the individual and the means by which it is accessed stored viewed and transferred In particular the growth of the internet has led to the creation of huge repositories of multimedia documents in a diverse range of scientific and professional fields as well as the tools to extract useful knowledge from them Mining Multimedia Documents is a must read for researchers practitioners and students working at the intersection of data mining and multimedia applications It investigates various techniques related to mining multimedia documents based on text image and video features It provides an insight into the open research problems benefitting advanced undergraduates graduate students researchers scientists and practitioners in the fields of medicine biology production education government national security and economics      Soft Computing in Information Retrieval Fabio Crestani, Gabriella Pasi, 2013-03-19 Information retrieval IR aims at defining systems able to provide a fast and effective content based access to a large amount of stored information The aim of an IR system is to estimate the relevance of documents to users information needs expressed by means of a query This is a very difficult and complex task since it is pervaded with imprecision and uncertainty Most of the existing IR systems offer a very simple model of IR which privileges efficiency at the expense of effectiveness A promising direction to increase the effectiveness of IR is to model the concept of partially intrinsic in the IR process and to make the systems adaptive i e able to learn the user s concept of relevance To this aim the application of soft computing techniques can be of help to obtain greater flexibility in IR systems      **Knowledge Discovery from Legal Databases** Andrew Stranieri, John Zeleznikow, 2006-03-30 Knowledge Discovery from Legal Databases is the first text to describe data mining techniques as they apply to law Law students legal academics and applied information technology specialists are guided thorough all phases of the knowledge discovery from databases process with clear explanations of numerous data mining algorithms including rule induction neural networks and association rules Throughout the text assumptions that make data mining in law quite different to mining other data are made explicit Issues such as the selection of commonplace cases the use of discretion as a form of open texture transformation using argumentation concepts and evaluation and deployment approaches are discussed at length      **Mind, Machine, And Metaphor** Alexander E. Silverman, 2019-03-08 Mind Machine and Metaphor is a rich original and wide ranging view of legal theory in the context of artificial intelligence AI research It is

essential reading for legal theorists and for legal scholars and students of AI with an interest in each other's fields

Introduction to Expert Systems Peter Jackson, 1999 In May 1997 IBM's Deep Blue defeated the world chess champion Gary Kasparov showing that an artificial intelligence system can outplay even the most skilled of human experts Since the first expert systems appeared in the late sixties we have seen three decades of research and development engineer human knowledge to more practical ends in a pioneering effort that has integrated diverse areas of cognitive and computer science Today expert systems exist in many forms from medical diagnosis to investment analysis and from counseling to production control This third edition of Peter Jackson's best selling book updates the technological base of expert systems research and embeds those developments in a wide variety of application areas The earlier chapters have been refocused to take a more practical approach to the basic topics while the later chapters introduce new topic areas such as case based reasoning connectionist systems and hybrid systems Results in related areas such as machine learning and reasoning with uncertainty are also accorded a thorough treatment The new edition contains many new examples and exercises most of which are in CLIPS a language that combines production rules with object oriented programming LISP PROLOG and C are also featured where appropriate Interesting problems are posed throughout and are solved in exercises involving the analysis design and implementation of CLIPS programs This book will prove useful to a wide readership including general readers students and teachers software engineers and researchers Its modular structure enables readers to follow a pathway most suited to their needs providing them with an up to date account of expert systems technology Peter Jackson is Director of Research at West Group a division of The Thomson Corporation and the leading provider of information to the US legal market Peter drives the application of natural language and information retrieval technologies to the information needs of law and business Previous appointments include Principal Scientist at the McDonnell Douglas Research Laboratories in Saint Louis Missouri and Lecturer in the Department of Artificial Intelligence at the University of Edinburgh Scotland Proceedings of the Conference, 1999 **Scalable Uncertainty Management** Sébastien Destercke, Maria Vanina Martinez, Giuseppe

Sanfilippo, 2024-11-11 This book constitutes the refereed proceedings of the 16th International Conference on Scalable Uncertainty Management SUM 2024 held in Palermo Italy during November 27-29 2024 The 28 full and 7 short papers presented in this volume were carefully reviewed and selected from 43 submissions SUM 2024 solicited three types of paper submissions Long papers reporting on original research or providing surveys that synthesize current research trends short papers describing promising work in progress systems or positions on controversial issues and extended abstracts

**Proceedings of the 2nd International Conference on Artificial Intelligence and Law**, 1989

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