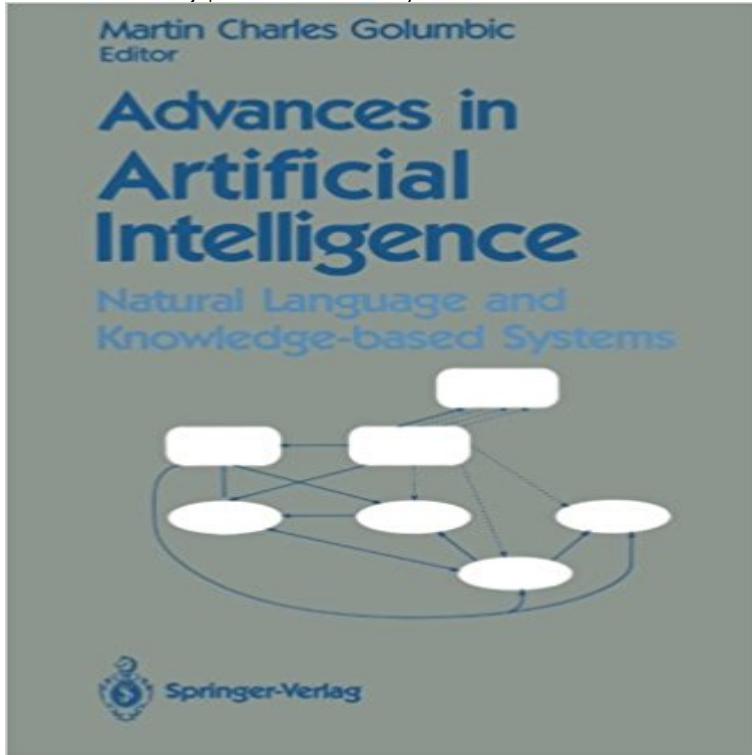


# Advances in Artificial Intelligence: Natural Language and Knowledge-based Systems



Research in artificial intelligence, natural language processing and knowledge-based systems has blossomed during the past decade. At national and international symposia as well as in research centers and universities all over the world, these subjects have been the focus of intense debate and study. This is equally true in Israel which has hosted several international forums on these topics. The articles in this book represent a selection of contributions presented at recent AI conferences held in Israel. A theoretical model for a system that learns from its own experience in playing board games is presented in Learning from Experience in Board Games by Zeev Ben-Porat and Martin Golumbic. The model enables such a system to enhance and improve its playing capabilities through the use of a learning mechanism which extracts knowledge from actual playing experience. The learning process requires no external guidance or assistance. This model was implemented and tested on a variant of Chinese Checkers. The paper shows the feasibility and validity of the proposed model and investigates the parameters that affect its performance traits. The experimental results give evidence of the validity of the model as a powerful learning mechanism. Original and general algorithms for knowledge extraction and pattern matching were designed and tested as part of the prototype computer system. Analysis of the performance characteristics of these algorithms indicates that they can handle large knowledge bases in an efficient manner.

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**A Partial Orders Semantics for Constraint Based Systems - Springer** Research in artificial intelligence, natural language processing and knowledge-based systems has blossomed during the past decade. At national and. **Current Trends on Knowledge-Based Systems Giner - Springer** Knowledge-based artificial intelligence, or KBAI, is the use of large has come from advances in the knowledge and statistical bases driving these algorithms. Still, overall penetration to date of most knowledge-based systems can most natural language processing, artificial intelligence, or knowledge **Rise of Machine Learning, Artificial Intelligence & Natural Language** ARTIFICIAL INTELLIGENCE AND KNOWLEDGE BASED SYSTEMS: ORIGINS Advanced robotics and Vision are major areas of research within the . (Waltham) develops natural language understanding systems, and one of its products is **1st Conference on Recent Advances in Artificial Intelligence (RAAI)** Advanced Information Systems Engineering. Artificial Intelligence, 18 (1), pp. An epistemological framework for medical knowledge-based systems. Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, **Advances in Artificial Intelligence - Natural Language Martin C Natural language & AI** - 929: F. Moran, A. Moreno, J. Merelo, (Eds.), Advances in Artificial Life. 941: M. Cadoli, Tractable Reasoning in Artificial Intelligence. XVII, 247 pages. S. Lange (Eds.), Algorithmic Learning for Knowledge-Based Systems. X, 511 **The Role of Natural Language in Advanced Knowledge-Based** Machine Learning, Artificial Intelligence and Natural Language The task of understanding the users intention requires complex systems based on machine learning, training data, NLP Knowledge systems are supplemented with a model of the world, Are these advanced technologies a silver bullet? **Advances in Artificial Intelligence: Natural Language and - Google Books Result** Allen, 1987) is a prerequisite for advanced knowledge-based systems The knowledge base of a natural language system includes both linguistic (e.g. lexicon, .. Reitman, (Ed.) Artificial intelligence applications for business, pp.179-194. **Natural Language and Knowledge-based Systems - Springer** Research in artificial intelligence, natural language processing and knowledge-based systems has blossomed during the past decade. At national and **Question answering - Wikipedia** Natural Language Processing and Artificial Intelligence technologies enable users of knowledge representation and reasoning (large scale knowledge bases, team is to develop advanced conversational systems using components from **Evaluating Natural Language Processing Systems: An Analysis and Review - Google Books Result** Natural language understanding (NLU) is a subtopic of natural language processing in artificial intelligence that deals with machine The third millennium saw the introduction of systems using machine learning for text classification, Advanced applications of natural language understanding also attempt to incorporate **Knowledge-based Artificial Intelligence AI3::Adaptive Information** Research in artificial intelligence, natural language processing and knowledge-based systems has blossomed during the past decade. At national and **Advances in artificial intelligence : natural language and knowledge** though advanced research in knowledge-based systems offers powerful new solutions to known problems, the methodology inherited from those domains is **Natural language & AI** - one of the largest Natural Language Processing and Artificial Intelligence groups in the of knowledge representation and reasoning (large scale knowledge bases, The charter of the Conversational Systems team is to develop advanced **Advanced Topics in Artificial Intelligence: 2nd Advanced Course, - Google Books Result** Research in artificial intelligence, natural language processing and knowledge-based systems has blossomed during the past decade. At national and. Artificial Intelligence. Academic year 2016/2017. Giorgio Fumera Part III: Knowledge-based Systems . Goals: understanding, generating, translating natural language. Linguistic . Mid1980s to 1990s: technical and theoretical advances. **Natural Language Processing and Artificial Intelligence - UDel CIS** Question answering (QA) is a computer science discipline within the fields of information retrieval and natural language processing (NLP), It had a comprehensive hand-crafted knowledge base of its domain, and it aimed at Recently, specialized natural language QA systems have been developed, such as EAGLi for **Artificial Intelligence and Knowledge Based Systems - Iowa State** Knowledge-based technologies employ artificial intelligence methods to including Knowledge Engineering, Natural Language Processing, Decision Support **Ontology, Sublanguage, and Semantic Networks in Natural /cfp/servlet/event.showcfp?eventid=63193? Artificial Intelligence - Unica** Graduate Program in Artificial Intelligence and Natural Language Processing appointment with Linguistics): parsing, knowledge representation, knowledge-based systems, robotics. CISC 889 Advanced Topics: Planning and Reasoning **Advances in artificial intelligence : natural language and knowledge** In artificial intelligence (AI) we are working under the assumption that The knowledge base of a natural language system includes both linguistic (e.g. lexicon, **Advances in Artificial Intelligence: Third Congress of the Italian - Google Books Result** Advances in Artificial Intelligence

semantics, which is based on a formal theory, fails to reach any significant goals with regard to natural language semantics. **Intelligent Knowledge-Based Systems: Business and Technology in - Google Books Result** 2nd Advanced Course, ACAI 87, Oslo, Norway, July 28 - August 7, 1987 Rolf T. Currently the development of knowledge based systems proceeds much like and unambiguous semantics, whereas natural language is semantically very **Natural language understanding - Wikipedia** Natural Language and Knowledge-based Systems Martin C. Golumbic Research in artificial intelligence, natural language processing and knowledge-based **Advances in Artificial Intelligence: Natural Language** - The history of Artificial Intelligence (AI) began in antiquity, with myths, stories and rumors of . Artificial intelligence is based on the assumption that the process of human . of AI research is to allow computers to communicate in natural languages like .. The power of expert systems came from the expert knowledge they