

PROBLEM-SOLVING FRAMEWORK



Framework For Distributed Problem Solving

Yan Bai



Framework For Distributed Problem Solving:

A Framework for Distributed Problem Solving Reid G. Smith, 1981 **A Framework for Problem Solving in a Distributed Processing Environment** Reid G. Smith, 1978 The concept of distributed problem solving or the cooperative solution of problems by a decentralized and loosely coupled collection of knowledge sources that operates in a distributed processor architecture is presented Such architectures offer high speed reliable computation at low cost and are an effective way to utilize the new LSI processors and the developments of the recent synthesis of computer and communications technology A conceptual framework called the contract net framework that specifies communications control and knowledge organization has been developed Task distribution is viewed as an interactive process a discussion carried on between a node with a task to be executed and a group of nodes that may be able to execute the task This is the origin of the contract metaphor for control where task distribution corresponds to contract negotiation The types of knowledge used in such a problem solver are discussed together with the ways that the knowledge is indexed within an individual node and distributed among the collection of nodes The use of two primary types of knowledge referred to as task centered and knowledge source centered is shown We illustrate the kinds of information that must be passed between nodes in the distributed processor in order to carry out task and data distribution We suggest that a common internode language is required and that the task specific expertise required by a processor node can be obtained by internode transfer of procedures and data

Coordination of Distributed Problem Solvers Edmund H. Durfee, 2012-12-06 As artificial intelligence AI is applied to more complex problems and a wider set of applications the ability to take advantage of the computational power of distributed and parallel hardware architectures and to match these architectures with the inherent distributed aspects of applications spatial functional or temporal has become an important research issue Out of these research concerns an AI subdiscipline called distributed problem solving has emerged Distributed problem solving systems are broadly defined as loosely coupled distributed networks of semi autonomous problem solving agents that perform sophisticated problem solving and cooperatively interact to solve problems Nodes operate asynchronously and in parallel with limited internode communication Limited internode communication stems from either inherent bandwidth limitations of the communication medium or from the high computational cost of packaging and assimilating information to be sent and received among agents Structuring network problem solving to deal with consequences of limited communication the lack of a global view and the possibility that the individual agents may not have all the information necessary to accurately and completely solve their subproblems is one of the major focuses of distributed problem solving research It is this focus that also is one of the important distinguishing characteristics of distributed problem solving research that sets it apart from previous research in AI

A Cooperative Distributed Problem Solving Framework Srikanth Sundararajan, 1990 This dissertation describes a framework for cooperative distributed problems solving CDPS and how this framework can be used to solve the class of

problems comprised of semi independent sub problems The CDPS framework provides speedup over traditional sequential problem solving methods increased reliability and flexibility reduced static consistency checking graceful degradation owing to the increased spectral nature of knowledge and efficient knowledge acquisition In addition the CDPS framework facilitates the coupling of disparate knowledge sources by means of a robust communication protocol this facilitates the coupling of artificial intelligence AI techniques with more traditional problem solving techniques such as decision theory operations research etc The CDPS framework also promotes the preservation of multiple perspectives and as a result multiple solutions The dissertation describes the verification of the CDPS framework via the successful implementations of two prototypes namely the Computer Systems Manager and the Supplier side Risk Analyzer The dissertation also describes design experiments carried out on the CDPS framework that serve as useful guidelines for future developers of such systems The design experiments involve comparisons with a Sequential Model and a Distributed Model in order to get a real feel for the performance of the CDPS framework

Distributed Artificial Intelligence Satya Prakash Yadav,Dharmendra Prasad Mahato,Nguyen Thi Dieu Linh,2020-12-17 Distributed Artificial Intelligence DAI came to existence as an approach for solving complex learning planning and decision making problems When we talk about decision making there may be some meta heuristic methods where the problem solving may resemble like operation research But exactly it is not related completely to management research The text examines representing and using organizational knowledge in DAI systems dynamics of computational ecosystems and communication free interactions among rational agents This publication takes a look at conflict resolution strategies for nonhierarchical distributed agents constraint directed negotiation of resource allocations and plans for multiple agents Topics included plan verification generation and execution negotiation operators representation network management problem and conflict resolution paradigms The manuscript elaborates on negotiating task decomposition and allocation using partial global planning and mechanisms for assessing nonlocal impact of local decisions in distributed planning The book will attract researchers and practitioners who are working in management and computer science and industry persons in need of a beginner to advanced understanding of the basic and advanced concepts

Proceedings of the Workshop on AI and Distributed Problem Solving ,1985 *IJCAI Proceedings 1979* Ijcai,1979

Readings in Distributed Artificial Intelligence Alan H. Bond,Les Gasser,2014-06-05 Most artificial intelligence research investigates intelligent behavior for a single agent solving problems heuristically understanding natural language and so on Distributed Artificial Intelligence DAI is concerned with coordinated intelligent behavior intelligent agents coordinating their knowledge skills and plans to act or solve problems working toward a single goal or toward separate individual goals that interact DAI provides intellectual insights about organization interaction and problem solving among intelligent agents This comprehensive collection of articles shows the breadth and depth of DAI research The selected information is relevant to emerging DAI technologies as well as to practical problems in artificial intelligence distributed computing systems and

human computer interaction Readings in Distributed Artificial Intelligence proposes a framework for understanding the problems and possibilities of DAI It divides the study into three realms the natural systems approach emulating strategies and representations people use to coordinate their activities the engineering science perspective building automated coordinated problem solvers for specific applications and a third hybrid approach that is useful in analyzing and developing mixed collections of machines and human agents working together The editors introduce the volume with an important survey of the motivations research and results of work in DAI This historical and conceptual overview combines with chapter introductions to guide the reader through this fascinating field A unique and extensive bibliography is also provided

A Framework for Problem-solving in a Distributed Processing Environment Reid G. Smith,1981

Proceedings of the Eleventh National Conference on Artificial Intelligence American Association for Artificial Intelligence,1993 AAI proceedings describe innovative concepts techniques perspectives and observations that present promising research directions in artificial intelligence Topics include The principles underlying cognition perception and action in humans and machines The design application and evaluation of AI algorithms and intelligent systems The analysis of tasks and domains in which intelligent systems perform

Proceedings of the Workshop on Space Telerobotics, Volume 3 ,1987

GMD Report ,1999

A Framework for Organizational Self-design in Distributed Problem Solving Networks Daniel David Corkill,1985

Proceedings of the ... International IEEE Conference on Tools for Artificial Intelligence ,1990

Modeling and Simulation ,1985

Proceedings of the International Conference on Expert Systems for Development ,1994

A Flexible Auction-based Shopfloor Control Paradigm for Highly-distributed Manufacturing Systems Kung-Jeng Wang,1997

Annual Review of Computer Science Joseph F. Traub,1990 The series will be suspended after this volume Although critical reception has been good according to the preface written by the editor in chief finding computer scientists willing to write critical review articles has been difficult and the editors have concluded that the series was launched prematurely The impact of computers on all of modern science technology and society is indisputably enormous but the pool of available writing talent is too small This volume contains ten review articles and a special topics section with ten presentations

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Proceedings of the ... International Joint Conference on Artificial Intelligence ,1993

Journal of the Institution of Electronics and Telecommunication Engineers ,1996

Framework For Distributed Problem Solving: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Framework For Distributed Problem Solving : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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