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# SCALING UP MACHINE LEARNING

*Parallel and Distributed Approaches*

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# Scaling Up Machine Learning Parallel And Distributed Approaches

**Eric Joel Horvitz, Dan Geiger, Prakash P. Shenoy**



## Scaling Up Machine Learning Parallel And Distributed Approaches:

**Scaling Up Machine Learning** Ron Bekkerman, Mikhail Bilenko, John Langford, 2012 This integrated collection covers a range of parallelization platforms concurrent programming frameworks and machine learning settings with case studies

*Proceedings of the Thirteenth National Conference on Artificial Intelligence and the Eighth Innovative Applications of Artificial Intelligence Conference* American Association for Artificial Intelligence, 1996 AAI proceedings describe innovative concepts techniques perspectives and observations that present promising research directions in artificial intelligence August 4 8 1996 Portland Oregon AAI 96 provides a broad forum for information exchange and interaction among researchers working in different subdisciplines in different research paradigms and in different stages of research in artificial intelligence Topics cover principles underlying cognition perception and action design application and evaluation of AI algorithms and systems architectures and frameworks for classes of AI systems and analysis of tasks and domains in which intelligent systems perform Included are contributions that describe theoretical empirical or experimental results represent areas of AI that may have been underrepresented in recent conferences present promising new research concepts techniques or perspectives or discuss issues that cross traditional subdisciplinary boundaries Two volume set Distributed for the AAI Press

Advances in Distributed and Parallel Knowledge Discovery Hillol Kargupta, Philip Chan, 2000 This book presents introductions to DKD and PKD extensive reviews of the field and state of the art techniques Foreword by Vipin Kumar Knowledge discovery and data mining KDD deals with the problem of extracting interesting associations classifiers clusters and other patterns from data The emergence of network based distributed computing environments has introduced an important new dimension to this problem distributed sources of data Traditional centralized KDD typically requires central aggregation of distributed data which may not always be feasible because of limited network bandwidth security concerns scalability problems and other practical issues Distributed knowledge discovery DKD works with the merger of communication and computation by analyzing data in a distributed fashion This technology is particularly useful for large heterogeneous distributed environments such as the Internet intranets mobile computing environments and sensor networks When the data sets are large scaling up the speed of the KDD process is crucial Parallel knowledge discovery PKD techniques addresses this problem by using high performance multiprocessor machines This book presents introductions to DKD and PKD extensive reviews of the field and state of the art techniques Contributors Rakesh Agrawal Khaled AlSabti Stuart Bailey Philip Chan David Cheung Vincent Cho Joydeep Ghosh Robert Grossman Yi ke Guo John Hale John Hall Daryl Hershberger Ching Tien Ho Erik Johnson Chris Jones Chandrika Kamath Hillol Kargupta Charles Lo Balinder Malhi Ron Musick Vincent Ng Byung Hoon Park Srinivasan Parthasarathy Andreas Prodromidis Foster Provost Jian Pun Ashok Ramu Sanjay Ranka Mahesh Sreenivas Salvatore Stolfo Ramesh Subramonian Janjao Sutiwaraphun Kagan Tummer Andrei Turinsky Beat W thrich Mohammed Zaki Joshua Zhang

Uncertainty in Artificial Intelligence Eric Joel Horvitz, Dan Geiger, Prakash P. Shenoy, 1997

*Parallel and Distributed Processing*, 2000      **Uncertainty in Artificial Intelligence**, 1997      *Data & Knowledge Engineering, Volume 48, Issue 1*, 2004      *Machine Learning and Data Mining in Pattern Recognition*, 1999

**Proceedings of the Third International Conference on Knowledge Discovery and Data Mining** David Heckerman, 1997      *Data Mining Techniques in Grid Computing Environments* Werner Dubitzky, 2008-12-22 Based around eleven international real life case studies and including contributions from leading experts in the field this groundbreaking book explores the need for the grid enabling of data mining applications and provides a comprehensive study of the technology techniques and management skills necessary to create them This book provides a simultaneous design blueprint user guide and research agenda for current and future developments and will appeal to a broad audience from developers and users of data mining and grid technology to advanced undergraduate and postgraduate students interested in this field

**Next Generation of Data-Mining Applications** Mehmed Kantardzic, Jozef Zurada, 2005-03-08 Discover the next generation of data mining tools and technology This book brings together an international team of eighty experts to present readers with the next generation of data mining applications Unlike other publications that take a strictly academic and theoretical approach this book features authors who have successfully developed data mining solutions for a variety of customer types Presenting their state of the art methodologies and techniques the authors show readers how they can analyze enormous quantities of data and make new discoveries by connecting key pieces of data that may be spread across several different databases and file servers The latest data mining techniques that will revolutionize research across a wide variety of fields including business science healthcare and industry are all presented Organized by application the twenty five chapters cover applications in Industry and business Science and engineering Bioinformatics and biotechnology Medicine and pharmaceuticals Web and text mining Security New trends in data mining technology And much more Readers from a variety of disciplines will learn how the next generation of data mining applications can radically enhance their ability to analyze data and open the doors to new opportunities Readers will discover New data mining tools to automate the evaluation and qualification of sales opportunities The latest tools needed for gene mapping and proteomic data analysis Sophisticated techniques that can be engaged in crime fighting and prevention With its coverage of the most advanced applications Next Generation of Data Mining Applications is essential reading for all researchers working in data mining or who are tasked with making sense of an ever growing quantity of data The publication also serves as an excellent textbook for upper level undergraduate and graduate courses in computer science information management and statistics

*Proceedings of the Second SIAM International Conference on Data Mining* Robert Grossman, 2002 This text constitutes the proceedings of the Second SIAM International Conference on Data Mining Topics covered within include mining large data sets casualty rules and data learning support vector machines and neural networks and mining sequential and structured patterns      Proceedings American Association for Artificial Intelligence, 2002      Advances in Intelligent Data

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