

Juraj Hromkovič

# Communication Complexity and Parallel Computing



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# Communication Complexity And Parallel Computing

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## **Communication Complexity And Parallel Computing:**

**Communication Complexity and Parallel Computing** Juraj Hromkovič, 1997-02-26 The communication complexity of two party protocols is an only 15 years old complexity measure but it is already considered to be one of the fundamental complexity measures of recent complexity theory. Similarly to Kolmogorov complexity in the theory of sequential computations communication complexity is used as a method for the study of the complexity of concrete computing problems in parallel information processing. Especially it is applied to prove lower bounds that say what computer resources time hardware memory size are necessary to compute the given task. Besides the estimation of the computational difficulty of computing problems the proved lower bounds are useful for proving the optimality of algorithms that are already designed. In some cases the knowledge about the communication complexity of a given problem may be even helpful in searching for efficient algorithms to this problem. The study of communication complexity becomes a well defined independent area of complexity theory. In addition to a strong relation to several fundamental complexity measures and so to several fundamental problems of complexity theory communication complexity has contributed to the study and to the understanding of the nature of determinism, nondeterminism and randomness in algorithms. There already exists a non trivial mathematical machinery to handle the communication complexity of concrete computing problems which gives a hope that the approach based on communication complexity will be instrumental in the study of several central open problems of recent complexity theory.

**Communication Complexity and Parallel Computing** Juraj Hromkovič (Informatiker), 2000      **Communication complexity and parallel computing** Juraj Hromkovic, 1997      **Structural Information and Communication Complexity**

Shay Kutten, Janez Žerovnik, 2010-10-25 This book constitutes the thoroughly refereed post conference proceedings of the 16th International Colloquium on Structural Information and Communication Complexity SIROCCO 2009 held in Piran Slovenia in May 2009. The 23 revised full papers presented were carefully reviewed and selected from 53 submissions. The volume also contains two invited papers. SIROCCO addresses topics such as distributed computing, parallel computing, game theory, social networks, networking, mobile computing, peer to peer systems, communication complexity, combinatorial optimization. special focus is put to compact data structures, information dissemination, informative labeling schemes, distributed scheduling, wireless networks and scheduling of transmissions, routing, broadcasting and localization.

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structures information dissemination informative labeling schemes distributed scheduling wireless networks and scheduling of transmissions routing broadcasting and localization *Structural Information and Communication Complexity* Tomasz Jurdziński, Stefan Schmid, 2021-06-19 This book constitutes the refereed conference proceedings of the 28th International Colloquium on Structural Information and Communication Complexity SIROCCO 2021 held in Wrocław Poland in June 2021 Due to COVID 19 the conference will be held online The 20 full papers presented in this book were carefully reviewed and selected from 48 submissions The papers are solicited from all areas of study of local structural knowledge and global communication and computational complexities Among the typical areas are distributed computing communication networks game theory parallel computing social networks mobile computing

### **The Communication Complexity of Distributed**

**Computing and a Parallel Algorithm for Polynomial Roots** Prasoon Tiwari, 1986 *Structural Information and Communication Complexity* Paola Flocchini, 2006-06-21 This book constitutes the refereed proceedings of the 13th International Colloquium on Structural Information and Communication Complexity SIROCCO 2006 held in Chester UK July 2006 The book presents 24 revised full papers together with three invited talks on topics in distributed and parallel computing information dissemination communication complexity interconnection networks high speed networks wireless and sensor networks mobile computing optical computing autonomous robots and related areas

### **Communication**

**Complexity for Parallel Divide-and-conquer** I-Chen Wu, H. T. Kung, 1991 Also lower bounds on the communication cost are derived In particular it is shown that for each scheduling algorithm and for each positive  $\epsilon_C$  which can be arbitrarily close to 0 there are values of  $N, h, d, p$  and  $\epsilon_T$  for which if the parallel computation cost is between  $Np$  the minimum and  $1/\epsilon_T Np$  then the communication cost must be at least  $1/\epsilon_T$  times  $pdh$  Therefore the proposed scheduling algorithm is optimal with respect to the communication cost since the parallel computation cost of the algorithm is near optimal

### Mathematical Foundations of Computer Science 2006 Rastislav Královič, Paweł Urzyczyn, 2006-08-29

This book constitutes the refereed proceedings of the 31st International Symposium on Mathematical Foundations of Computer Science MFCS 2006 The book presents 62 revised full papers together with the full papers or abstracts of 7 invited talks All current aspects in theoretical computer science and its mathematical foundations are addressed from algorithms and data structures to complexity automata semantics logic formal specifications models of computation concurrency theory computational geometry and more

### *Structural Information and Communication*

**Complexity** Andrzej Pelc, Michel Raynal, 2005-05-11 This book constitutes the refereed proceedings of the 12th International Colloquium on Structural Information and Communication Complexity SIROCCO 2005 held in Mont Saint Michel France in May 2005 The 22 revised full papers presented were carefully reviewed and selected from 48 submissions The papers address issues such as topics in distributed and parallel computing information dissemination communication complexity interconnection networks high speed networks wireless networking mobile computing optical computing and related areas

*Fundamentals of Computation Theory* Andrzej Lingas, Bengt J. Nilsson, 2003-07-29 This book constitutes the refereed proceedings of the 14th International Symposium Fundamentals of Computation Theory FCT 2003 held in Malm Sweden in August 2003 The 36 revised full papers presented together with an invited paper and the abstracts of 2 invited talks were carefully reviewed and selected from 73 submissions The papers are organized in topical sections on approximability algorithms networks and complexity computational biology computational geometry computational models and complexity structural complexity formal languages and logic

*Structural Information and Communication Complexity* Thomas Moscibroda, Adele A. Rescigno, 2013-11-09 This book constitutes the thoroughly refereed post conference proceedings of the 20th International Colloquium on Structural Information and Communication Complexity SIROCCO 2013 held in Ischia Italy in July 2013 The 28 revised full papers presented were carefully reviewed and selected from 67 submissions SIROCCO is devoted to the study of communication and knowledge in distributed systems Special emphasis is given to innovative approaches and fundamental understanding in addition to efforts to optimize current designs The typical areas include distributed computing communication networks game theory parallel computing social networks mobile computing including autonomous robots peer to peer systems communication complexity fault tolerant graph theories and randomized probabilistic issues in networks

*Mathematical Foundations of Computer Science 1997* Igor Privara, 1997-08-13 This book constitutes the refereed post conference proceedings of the Second International Andrei Ershov Memorial Conference on System Informatics held in Akademgorodok Novosibirsk Russia in June 1996 The 27 revised full papers presented together with 9 invited contributions were thoroughly refereed for inclusion in this volume The book is divided in topical sections on programming methodology artificial intelligence natural language processing machine learning dataflow and concurrency models parallel programming supercompilation partial evaluation object oriented programming semantics and abstract interpretation programming and graphical interfaces and logic programming

**New Developments in Formal Languages and Applications** Gemma Bel-Enguix, M Dolores Jiménez-López, Carlos Martín-Vide, 2008-04-11 The theory of formal languages is widely accepted as the backbone of theoretical computer science It mainly originated from mathematics combinatorics algebra mathematical logic and generative linguistics Later new specializations emerged from areas of either computer science concurrent and distributed systems computer graphics artificial life biology plant development molecular genetics linguistics parsing text searching or mathematics cryptography All human problem solving capabilities can be considered in a certain sense as a manipulation of symbols and structures composed by symbols which is actually the stem of formal language theory Language in its two basic forms natural and artificial is a particular case of a symbol system This wide range of motivations and inspirations explains the diverse applicability of formal language theory and all these together explain the very large number of monographs and collective volumes dealing with formal language theory In 2004 Springer Verlag published the volume *Formal Languages and Applications* edited by C Martín-Vide V Mitrana and G Păun in the series *Studies in*

Fuzziness and Soft Computing 148 which was aimed at serving as an overall course aid and self study material especially for PhD students in formal language theory and applications Actually the volume emerged in such a context it contains the core information from many of the lectures livered to the students of the International PhD School in Formal Languages and Applications organized since 2002 by the Research Group on Mathem ical Linguistics from Rovira i Virgili University Tarragona Spain

**Structural Information and Communication Complexity** Giuseppe Prencipe,2007-06 This book constitutes the refereed proceedings of the 14th International Colloquium on Structural Information and Communication Complexity SIROCCO 2007 held in Castiglioncello Italy in June 2007 The 23 revised full papers and four invited talks cover graph exploration fault tolerance distributed algorithms and data structures location problems wireless networks fault tolerance as well as parallel computing and selfish routing

**STACS 2000** Horst Reichel,Sophie Tison,2007-08-03 This book constitutes the refereed proceedings of the 17th Annual Symposium on Theoretical Aspects of Computer Science STACS 2000 held in Lille France in February 2000 The 51 revised full papers presented together with the three invited papers were carefully reviewed and selected from a total of 146 submissions on the basis of some 700 reviewers reports The papers address fundamental issues from all current areas of theoretical computer science including algorithms data structures automata formal languages complexity verification logic cryptography graph theory optimization etc

**Structural Information and Communication Complexity** Tomasz Jurdziński,Stefan Schmid,2021 This book constitutes the refereed conference proceedings of the 28th International Colloquium on Structural Information and Communication Complexity SIROCCO 2021 held in Wroclaw Poland in June 2021 Due to COVID 19 the conference will be held online The 20 full papers presented in this book were carefully reviewed and selected from 48 submissions The papers are solicited from all areas of study of local structural knowledge and global communication and computational complexities Among the typical areas are distributed computing communication networks game theory parallel computing social networks mobile computing

*Analytical Modelling in Parallel and Distributed Computing* Peter Hanuliak ,Michal Hanuliak,2014 This publication examines complex performance evaluation of various typical parallel algorithms shared memory distributed memory and their practical implementations As real application examples we demonstrate the various influences during the process of modelling and performance evaluation and the consequences of their distributed parallel implementations

**On the Impact of Communication Complexity in the Design of Parallel Numerical Algorithms** Institute for Computer Applications in Science and Engineering,D. Gannon,1984

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