

Final Exam

Duration 90 minutes

MAX POINTS = 70 points

- The exam is open notes, open books
- There are six problems, for a total of 70 points
- Show your work, as partial credit will be given

10 points

Problem 1.

Consider a matrix-chain product with the sequence of dimensions $\langle 3, 10, 4, 15, 8 \rangle$.

a) (7 pts) Fill out the empty spaces in the m and s tables below. Show your work.

b) (3 pts) Show the printing of an optimal parenthesization.

	m			
	1	2	3	4
1	0	120	300	660
2		0	600	800
3			0	480
4				0

	s			
	1	2	3	4
1		1	2	3
2			2	2
3				3
4				

$$m[2,4] \begin{cases} k=2 & 800 \\ k=3 & 1800 \end{cases}$$

$$m[1,4] \begin{cases} k=1 & 1040 \\ k=2 & 696 \\ k=3 & 660 \end{cases}$$

$$(((A_1 \cdot A_2) \cdot A_3) \cdot A_4)$$

Analysis Of Algorithms Final Solutions

Sudhir Srivastava



Analysis Of Algorithms Final Solutions:

Journal of Design Automation & Fault-tolerant Computing, 1976 **A Fast Parallel Tridiagonal Algorithm for a Class of CFD Applications**, 1996 Big Data Computing and Communications Yu Wang, Hui Xiong, Shlomo Argamon, XiangYang Li, JianZhong Li, 2015-07-23 This book constitutes the proceedings of the First International Conference on Big Data Computing and Communications BigCom 2015 held in Taiyuan China in August 2015 The 41 papers presented in this volume were carefully reviewed and selected from 74 submissions They were organized in topical sections named wireless communication and networks database and big data smart phone and sensing application security and privacy architecture and applications sensor networks and RFID social networks and recommendation signal processing and pattern recognition and routing and resource management **Annual ACM Symposium on Parallel Algorithms and Architectures**, 2004 *Proceedings of the Thirteenth Ship Technology and Research (STAR) Symposium, 3rd International Marine Systems Design Conference (IMSDC), 1988*, 1988 *Software Applications: Concepts, Methodologies, Tools, and Applications* Tiako, Pierre F., 2009-03-31 Includes articles in topic areas such as autonomic computing operating system architectures and open source software technologies and applications **Algorithms for Clustering Problems** Moses Samson Charikar, 2000 *Problem Solving Study Guide and Solutions Manual, Mathematics for Elementary Teachers, a Contemporary Approach, Fourth Edition, Gary L. Musser, William S. [sic] Burger* Don Miller, 1997 Structural Engineering/earthquake Engineering, 1990 Informatics In Proteomics Sudhir Srivastava, 2005-06-24 The handling and analysis of data generated by proteomics investigations represent a challenge for computer scientists biostatisticians and biologists to develop tools for storing retrieving visualizing and analyzing genomic data Informatics in Proteomics examines the ongoing advances in the application of bioinformatics to proteomics research **Engineering Self-Organising Systems** Sven A. Brueckner, Giovanni Di Marzo Serugendo, David Hales, 2006-05-01 This book constitutes the refereed post proceedings of the Third International Workshop on Engineering Self Organising Applications ESOA 2005 held in July 2005 as an associated event of AAMAS 2005 The 12 revised full papers and 6 revised short papers presented are organized in topical sections on novel self organising mechanisms methodologies models and tools for self organising applications and specific applications of self organising mechanisms **Proceedings**, 1990 Approximation Algorithms for Facility Location Problems Sudipto Guha, 2000 **Transport and Climate Change** Maxim A. Dulebenets, Szymon Wiśniewski, Marta Borowska-Stefańska, 2025-12-21 This book surveys the impact of the transportation sector on accelerated climate change and the main solutions that have been proposed over the years to address the problem The examples of these solutions include but are not limited to emission reduction targets electrification of the transportation sector elimination of vehicles with traditional fossil fuel engines renewable energy sources and introduction of emission control measures Some of these solutions are quite difficult to implement due to the associated costs Certain approaches may seem rather ambitious and

need more thorough assessment Urban areas are substantially impacted by greenhouse gas emissions produced by the transportation sector Global warming and rapid urbanization are all contributing factors that heighten the likelihood of compound extreme weather events As climate change events become more frequent and intense communities around the world become increasingly vulnerable due to their everyday dependence on transportation systems The book presents innovative mitigation and adaptation strategies that reduce the future effects of climate change resulting from the transportation sector and promote adaptive transport systems to minimize human as well as economic losses caused by climate change The new strategies are inspired by intelligent supply chain management solutions transportation network operational alternatives and sustainability driven interdisciplinary approaches The book emphasizes low risk and high payoff solutions

Journal of Research of the National Institute of Standards and Technology ,2006 *International Journal of Information and Management Sciences* ,1994 **Layout Algorithms for Single and Multiple Floor Facilities.260::1992**
Russell D. Meller,1992 *UNIX Review* ,1990-07 System Sciences IEEE Computer Society,Pacific Research Institute for Information Systems and Management,University of Hawaii (Honolulu,HI US),1992 **Flight Mechanics/Estimation Theory Symposium 1990** ,1990

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