Homework assignment 1

Hand in on DTU Learn before 21 September 11pm

1 Multiple choice (40%)

Each question has only ONE correct answer. In the pdf file with your answers, you just need type the number of the answer. You get 10% for a correct answer, 0% for no answer, and -5% for a wrong answer.

A — Errors. A number a is correctly rounded to 3.18 from a given number b. Then $|a - b| \leq c$, where c is

1. 0.05.

2. 0.005.

3. 0.01.

4. 0.18.

B — Data-fitting. The viscosity V of a liquid is known to vary with temperature according to a quadratic law

$$V(T) = a + bT + cT^2. \tag{1}$$

We want to find the best function of the form (1) in the least-squares sense to fit the following data

T	2	4	6	8	10	12
V	2.31	2.01	1.80	1.66	1.55	1.47

Please find the correct answers to the following two questions.

Question B1: The sizes of the system matrix and the right-hand side of the normal equation are

1. 6×3 and 6×1, respectively.
2. 3×6 and 6×1, respectively.
3. 3×3 and 3×1, respectively.
4. 6×3 and 3×1, respectively.
5. 12×3 and 3×1, respectively.

Question B2: The solution of the normal equation is:

1. $a \approx 0.0067$, $b \approx -0.1755$, and $c \approx 2.6220$.

Homework Assignment 1 Search Algorithms

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Homework Assignment 1 Search Algorithms:

Progress in Artificial Intelligence Fernando Moura Pires,2003-11-24 This book constitutes the refereed proceedings of the 11th Portuguese Conference on Artificial Intelligence EPIA 2003 held in Beja Portugal in December 2003 The 29 revised full papers and 20 revised short papers presented were carefully reviewed and selected from a total of 119 submissions In accordance with the five constituting workshops the papers are organized in topical sections on artificial life and evolutionary algorithms constraint and logic programming systems extraction of knowledge from databases multi agent systems and AI for the Internet and natural language processing and text retrieval   STACS 2004 Volker Diekert,Michel Habib,2004-03-13 The Symposium on Theoretical Aspects of Computer Science STACS is alt nately held in France and in Germany The conference of March 25 27 2004 at the Corum Montpellier was the twenty rst in this series Previous meetings took place in Paris 1984 Saarbruc ken 1985 Orsay 1986 Passau 1987 Bordeaux 1988 Paderborn 1989 Rouen 1990 Hamburg 1991 Cachan 1992 Wurzburg 1993 Caen 1994 Munc hen 1995 Grenoble 1996 Lub eck 1997 Paris 1998 Trier 1999 Lille 2000 Dresden 2001 Antibes 2002 and Berlin 2003 The symposium looks back at a remarkable tradition of over 20 years The interest in STACS has been increasing continuously during recent years and has turned it into one of the most signi cant conferences in theoretical computer science The STACS 2004 call for papers led to more than 200 submissions from all over the world Thereviewingprocesswasextremelyhard morethan800reviewsweredone We would like to thank the program committee and all external referees for the valuable work they put into the reviewing process of this conference We had a two day meeting for the program committee in Montpellier during November 21 22 2003 Just 54 papers i e 27% of the submissions could be accepted as we wanted to keep the conference in its standard format with only two parallel sessions This strict selection guaranteed the very high scienti c quality of the conference   **Algorithms in Structural Molecular Biology** Bruce R. Donald,2023-08-15 An overview of algorithms important to computational structural biology that addresses such topics as NMR and design and analysis of proteins Using the tools of information technology to understand the molecular machinery of the cell offers both challenges and opportunities to computational scientists Over the past decade novel algorithms have been developed both for analyzing biological data and for synthetic biology problems such as protein engineering This book explains the algorithmic foundations and computational approaches underlying areas of structural biology including NMR nuclear magnetic resonance X ray crystallography and the design and analysis of proteins peptides and small molecules Each chapter offers a concise overview of important concepts focusing on a key topic in the field Four chapters offer a short course in algorithmic and computational issues related to NMR structural biology giving the reader a useful toolkit with which to approach the fascinating yet thorny computational problems in this area A recurrent theme is understanding the interplay between biophysical experiments and computational algorithms The text emphasizes the mathematical foundations of structural biology while maintaining a balance between algorithms and a nuanced

understanding of experimental data Three emerging areas particularly fertile ground for research students are highlighted NMR methodology design of proteins and other molecules and the modeling of protein flexibility The next generation of computational structural biologists will need training in geometric algorithms provably good approximation algorithms scientific computation and an array of techniques for handling noise and uncertainty in combinatorial geometry and computational biophysics This book is an essential guide for young scientists on their way to research success in this exciting field   **Encyclopedia of Algorithms** Ming-Yang Kao,2008-08-06 One of Springer s renowned Major Reference Works this awesome achievement provides a comprehensive set of solutions to important algorithmic problems for students and researchers interested in quickly locating useful information This first edition of the reference focuses on high impact solutions from the most recent decade while later editions will widen the scope of the work All entries have been written by experts while links to Internet sites that outline their research work are provided The entries have all been peer reviewed This defining reference is published both in print and on line   **Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems** Jean-Charles Régin,Michel Rueher,2004-04-07 This book constitutes the refereed proceedings of the First International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems CPAIOR 2004 held in Nice France in April 2004 The 23 revised full papers and 7 revised short papers presented together with an invited talk were carefully reviewed and selected from 56 submissions Methodological and foundational issues from AI OR and algorithmics are presented as well as applications to the solution of combinatorial optimization problems in various fields via constraint programming   *Artificial Intelligence for Advanced Problem Solving Techniques* Vlahavas, Ioannis,Vrakas, Dimitris,2008-01-31 One of the most important functions of artificial intelligence automated problem solving consists mainly of the development of software systems designed to find solutions to problems These systems utilize a search space and algorithms in order to reach a solution Artificial Intelligence for Advanced Problem Solving Techniques offers scholars and practitioners cutting edge research on algorithms and techniques such as search domain independent heuristics scheduling constraint satisfaction optimization configuration and planning and highlights the relationship between the search categories and the various ways a specific application can be modeled and solved using advanced problem solving techniques   **Proceedings of the ... ASMS Conference on Mass Spectrometry and Allied Topics** ,1990   *Proceedings* ,1996   **Environment & Planning** ,1976   **Practice and Theory of Automated Timetabling** ,2000   *Proceedings of the Twelfth National Conference on Artificial Intelligence* American Association for Artificial Intelligence,1994   Computer Science J. Stanley Warford,1991   **AIIE Transactions** American Institute of Industrial Engineers,1975   *Search Algorithms for Satisfiability Problems in Combinational Switching Circuits* João Paulo Marques da Silva,1995   Lectures in the Sciences of Complexity ,1992   1992 Lectures In Complex Systems Lynn Nadel,Daniel L. Stein,1993 For five years the Complex Systems Summer School

has contributed greatly to education and research into complex systems 1992 Lectures in Complex Systems presents a wide array of topics in the field including chaos adaptive computation neuronal oscillations computational ecologies the geometry of excitability quenched disorder biomolecular complexity and nonlinear dynamics of social systems This book is a compilation of many of the lectures and contributions of the 1992 Complex Systems Summer School The collective volumes in the Series Lectures in the Sciences of Complexity 1989 Lectures in the Sciences of Complexity 1990 Lectures in Complex Systems 1991 Lectures in Complex Systems and now 1992 Lectures in Complex Systems comprise a growing broad interdisciplinary review of the many sciences of complexity a review unavailable elsewhere Lectures included in This Volume Melanie Mitchell Genetic AlgorithmsCharles M Gray Rhythmic Activity in Neuronal Systems Insights Into Integrative FunctionTad Hogg Bernardo A Huberman Better than Best The Power of CooperationA T Winifree The Geometry of ExcitabilityJonathan S Yedidia Quenched Disorder Understanding Classes Using a Variational Principle and the Replica MethodRobert H Austin Complexity in Biological MoleculesRaymond E Goldstein Nonlinear Dynamics of Pattern Formation in Physics and BiologyJoshua M Epstein On the Mathematical Biology of Arms Races and Revolutions and An Adaptive Dynamic Model of Combat *Conference Proceedings of the ... IEEE ... Annual International Phoenix Conference on Computers and Communications* ,1996 **Annual International Phoenix Conference on Computers and Communications: Conference Proceedings** Edwin Sprott Towill,1976 **Testing's Impact on Design & Technology** ,1986 **Branching Methods in Combinatorial Optimization** Jean-Paul André Barthès,1973

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