

Sample questions for COMP-424 final exam

Doina Precup

These are examples of questions from past exams. They are provided without solutions. However, Doina and the TAs would be happy to answer questions about the solutions, if you try them. Note that the exam also has questions similar to those on the homeworks.

1. Search algorithms

- (a) Suppose you have an admissible heuristic h . Is h^2 admissible? Is \sqrt{h} admissible? Would using any of these alternatives be better or worse than using h in the A^* algorithm?
- (b) Suppose you were using a genetic algorithm and you have the following two individual, represented as strings of integers:

1324421 and 2751421

Show the result of performing crossover between the 3rd and 4th digit.

- (c) Which of the following statements, contrasting genetic algorithms and simulated annealing, are true?
 - i. Genetic algorithms are used for minimization problems while simulated annealing is used for maximization problems.
 - ii. Genetic algorithms maintain several possible solutions, whereas simulated annealing works with one solution.
 - iii. Genetic algorithms maintain one solution, whereas simulated annealing maintains several possible solutions.
 - iv. Simulated annealing is guaranteed to produce the best solution, while genetic algorithms do not have such a guarantee.

2. Machine learning

- (a) Which of the following can learn the OR function (circle all that apply):
 - i. linear perceptron
 - ii. a single sigmoid neuron
 - iii. a network of sigmoid neurons with one hidden layer
 - iv. none of the above
- (b) Which of the following can learn the XOR function (circle all that apply):

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Lance Chambers



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Fuzzy Logic for Embedded Systems Applications Ahmad Ibrahim,2004 Extensive coverage of both the theory and application of fuzzy logic design [Nachhaltige Lösungen für die Informationsgesellschaft](#) Manfred Schrenk,2006

[Proceedings of the Genetic and Evolutionary Computation Conference](#) ,2002 *GECCO-2002* William B. Langdon,2002

Computational Intelligence Paradigms for Optimization Problems Using MATLAB®/SIMULINK® S. Sumathi,L. Ashok Kumar,Surekha. P,2018-09-03 Considered one of the most innovative research directions computational intelligence CI embraces techniques that use global search optimization machine learning approximate reasoning and connectionist systems to develop efficient robust and easy to use solutions amidst multiple decision variables complex constraints and tumultuous environments CI techniques involve a combination of learning adaptation and evolution used for intelligent applications Computational Intelligence Paradigms for Optimization Problems Using MATLAB Simulink explores the performance of CI in terms of knowledge representation adaptability optimality and processing speed for different real world optimization problems Focusing on the practical implementation of CI techniques this book Discusses the role of CI paradigms in engineering applications such as unit commitment and economic load dispatch harmonic reduction load frequency control and automatic voltage regulation job shop scheduling multidepot vehicle routing and digital image watermarking Explains the impact of CI on power systems control systems industrial automation and image processing through the above mentioned applications Shows how to apply CI algorithms to constraint based optimization problems using MATLAB m files and Simulink models Includes experimental analyses and results of test systems Computational Intelligence Paradigms for Optimization Problems Using MATLAB Simulink provides a valuable reference for industry professionals and advanced undergraduate postgraduate and research students **Multi-Objective Optimization in Theory and Practice II:**

Metaheuristic Algorithms André A. Keller,2019-03-28 Multi Objective Optimization in Theory and Practice is a simplified two part approach to multi objective optimization MOO problems This second part focuses on the use of metaheuristic algorithms in more challenging practical cases The book includes ten chapters that cover several advanced MOO techniques These include the determination of Pareto optimal sets of solutions metaheuristic algorithms genetic search algorithms and evolution strategies decomposition algorithms hybridization of different metaheuristics and many objective more than three objectives optimization and parallel computation The final section of the book presents information about the design and types of fifty test problems for which the Pareto optimal front is approximated For each of them the package NSGA II is used to approximate the Pareto optimal front It is an essential handbook for students and teachers involved in advanced optimization courses in engineering information science and mathematics degree programs *Proceedings of the 8th International Conference on Computational Science and Technology* Rayner Alfred,Yuto Lim,2022-03-25 This book gathers the proceedings of the Seventh International Conference on Computational Science and Technology ICCST 2021 held in

Labuan Malaysia on 28 29 August 2021 The respective contributions offer practitioners and researchers a range of new computational techniques and solutions identify emerging issues and outline future research directions while also showing them how to apply the latest large scale high performance computational methods

Theory and Practice of Computation Shin-ya Nishizaki, Masayuki Numao, Jaime Caro, Merlin Teodosia Suarez, 2013-06-01 This book comprises the refereed proceedings of the Workshop on Computation Theory and Practice WCTP 2012 held in Manila The Philippines in September 2012 The workshop was organized by the Tokyo Institute of Technology the Institute of Scientific and Industrial Research Osaka University the University of the Philippines Diliman and De La Salle University Manila and was devoted to theoretical and practical approaches to computation The 22 revised full papers presented in this volume were carefully reviewed They deal with biologically inspired computational modeling programming language theory advanced studies in networking and empathic computing

Mathematical Optimization Terminology Andre A. Keller, 2017-11-10
Mathematical Optimization Terminology A Comprehensive Glossary of Terms is a practical book with the essential formulations illustrative examples real world applications and main references on the topic This book helps readers gain a more practical understanding of optimization enabling them to apply it to their algorithms This book also addresses the need for a practical publication that introduces these concepts and techniques Discusses real world applications of optimization and how it can be used in algorithms Explains the essential formulations of optimization in mathematics Covers a more practical approach to optimization

Genetic Algorithms + Data Structures = Evolution Programs Zbigniew Michalewicz, 2013-03-09 Genetic algorithms are founded upon the principle of evolution i e survival of the fittest Hence evolution programming techniques based on genetic algorithms are applicable to many hard optimization problems such as optimization of functions with linear and nonlinear constraints the traveling salesman problem and problems of scheduling partitioning and control The importance of these techniques has been growing in the last decade since evolution programs are parallel in nature and parallelism is one of the most promising directions in computer science The book is self contained and the only prerequisite is basic undergraduate mathematics It is aimed at researchers practitioners and graduate students in computer science and artificial intelligence operations research and engineering This second edition includes several new sections and many references to recent developments A simple example of genetic code and an index are also added Writing an evolution program for a given problem should be an enjoyable experience this book may serve as a guide to this task

[Introduction to Genetic Algorithms](#) S.N. Sivanandam, S. N. Deepa, 2007-10-24

The origin of evolutionary algorithms was an attempt to mimic some of the processes taking place in natural evolution Although the details of biological evolution are not completely understood even nowadays there exist some points supported by strong experimental evidence Evolution is a process operating over chromosomes rather than over organisms The former are organic tools encoding the structure of a living being i e a creature is built decoding a set of chromosomes Natural selection is

the mechanism that relates chromosomes with the efficiency of the entity they represent thus allowing that efficient organism which is well adapted to the environment to reproduce more often than those which are not. The evolutionary process takes place during the reproduction stage. There exists a large number of reproductive mechanisms in Nature. Most common ones are mutation that causes the chromosomes of offspring to be different to those of the parents and recombination that combines the chromosomes of the parents to produce the offspring. Based upon the features above the three mentioned models of evolutionary computing were independently and almost simultaneously developed.

The Practical Handbook of Genetic Algorithms Lance D. Chambers, 2019-09-17. The mathematics employed by genetic algorithms (GAs) are among the most exciting discoveries of the last few decades. But what exactly is a genetic algorithm? A genetic algorithm is a problem solving method that uses genetics as its model of problem solving. It applies the rules of reproduction, gene crossover and mutation to a pseudo organism.

[Genetic Algorithms in Applications](#) Rustem Popa, 2012-03-21. Genetic Algorithms (GAs) are one of several techniques in the family of Evolutionary Algorithms, algorithms that search for solutions to optimization problems by evolving better and better solutions. Genetic Algorithms have been applied in science, engineering, business and social sciences. This book consists of 16 chapters organized into five sections. The first section deals with some applications in automatic control, the second section contains several applications in scheduling of resources and the third section introduces some applications in electrical and electronics engineering. The next section illustrates some examples of character recognition and multi-criteria classification and the last one deals with trading systems. These evolutionary techniques may be useful to engineers and scientists in various fields of specialization who need some optimization techniques in their work and who may be using Genetic Algorithms in their applications for the first time. These applications may be useful to many other people who are getting familiar with the subject of Genetic Algorithms.

Handbook of Genetic Algorithms Ignacio Garza Rodriguez, 2012. Genetic algorithms (GA) have become popular tools for search, optimization, machine learning and solving design problems. These algorithms use simulated evolution to search for solutions to complex problems. A GA is a population-based computational method in which the population using randomized processes of selection, crossover and mutation evolves towards better solutions. In this book, the authors present current research including the application of genetic algorithm optimization techniques in beam steering of circular array antenna, hybrid genetic algorithms, changing range genetic algorithms, study of the influence of forest canopies on the accuracy of GPS measurements using genetic algorithms, roundness evaluation by genetic algorithm and optimal sizing of analogue integrated circuits by applying genetic algorithms.

[Genetic Algorithms in Elixir](#) Sean Moriarty, 2021-02-09. From finance to artificial intelligence, genetic algorithms are a powerful tool with a wide array of applications. But you don't need an exotic new language or framework to get started; you can learn about genetic algorithms in a language you're already familiar with. Join us for an in-depth look at the algorithms, techniques and methods that go into writing a genetic algorithm. From introductory problems to real world

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An Introduction to Genetic Algorithms Melanie Mitchell, 1996. [Introduction to Evolutionary Computing](#) A.E. Eiben, J.E. Smith, 2007-08-06. The first complete overview of evolutionary computing, the collective name for a range of problem solving techniques based on principles of biological evolution such as natural selection and genetic inheritance. The text is aimed directly at lecturers and graduate and undergraduate students. It is also meant for those who wish to apply evolutionary computing to a particular problem or within a given application area. The book contains quick reference information on the current state of the art in a wide range of related topics, so it is of interest not just to evolutionary computing specialists but to researchers working in other fields.

Genetic Algorithms in Search, Optimization, and Machine Learning David Edward Goldberg, 2002. **Genetic Algorithms** David E. Goldberg, 2013-02. This book, suitable for both course work and self study, brings together for the first time in an informal tutorial fashion the computer techniques

mathematical tools and research results that will enable both students and practitioners to apply genetic algorithms to problems in many fields programmers scientists engineers mathematicians statisticians and management scientists will all find interesting possibilities here Major concepts are illustrated with running examples and major algorithms are illustrated by Pascal computer programs Chapter concludes with exercises and computer assignments No prior knowledge of Gas or genetics is assumed

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