

## GENETIC ALGORITHM BASED SOLUTION FOR FINAL EXAM SCHEDULING

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### ABSTRACT

The automatic generation of schedules has been in focus of researches for decades. Since small changes in the input have exponential impact on the tested state space, methods based on heuristics and artificial intelligence are the most successful.

In our paper we analysed the opportunities of automatic generation of the academic final exam scheduling, which is a special subtask of schedule generation. We examined the problem with the genetic algorithm approach. We created a point system, wherewith the goodness of the generated schedules is measurable and comparable. We analysed the effect on achievable results caused by the different changes on our algorithm. We evaluated the algorithms on a real test set of 100 students.

Our results show that for this complexity there is an acceptable solution, and with some improvements on our algorithm we will be able to give solutions, which are better and fairer, than the manually compiled schedules.

### INTRODUCTION

Final examination takes place at the end of the degree course in most universities. One current form of this is the oral examination, where at one time in one room only one student takes the exam in front of a board of examiners. All of these instructors have a special role, and only some particular people can fill in these places.

The scheduling of the final exams may be done manually, but the non-automated process can cause human errors, and it is hard to see through the whole scheduling, whether all requirements are realized and the timing is appropriate for everyone.

The complexity of this problem can be approached on two levels. The scheduling problem in itself is NP-complete [1], as there are too many possible combinations for scheduling people. In addition, many final-exam specific conditions must be satisfied during the scheduling and some of them contradict each other easily. For example, we may want to distribute the load among the examiners equally, but to perform certain tasks, such as filling the position of the president or examination from some subjects, only certain academics are suitable. Some teachers may have much more students than others, and it is also possible that not every necessary instructor is available at the same time.

# Final Exam And Solution For Genetic Algorithm

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**Artificial Intelligence and Applications** Amita Yadav, Amit M. Joshi, Mehmet Ergezer, Valentina Emilia Balas, 2025-02-24 The papers in this book are high quality refereed papers presented at ICAIA 2024 the second International conference on Artificial Intelligence and Applications held at Maharaja Surajmal Institute of Technology New Delhi in collaboration with Wentworth Institute of Technology Boston USA in March 2024 This book presents new and innovative developments and applications in machine learning data mining neural networks computation optimisation technologies followed by research applications in signals language and classification prediction recommendations and systems This book is essential for researchers and practitioners in this field

**Modern Information Technology and IT Education** Vladimir Sukhomlin, Elena Zubareva, 2020-05-11 This book constitutes the refereed proceedings of the 13th International Conference on Modern Information Technology and IT Education held in Moscow Russia in November December 2018 The 30 full papers and 1 short papers were carefully reviewed and selected from 164 submissions The papers are organized according to the following topics IT education methodology methodological support e learning and IT in education educational resources and best practices of IT education research and development in the field of new IT and their applications scientific software in education and science school education in computer science and ICT economic informatics

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**Proceedings of the Third International Conference on Soft Computing for Problem Solving** Millie Pant, Kusum Deep, Atulya Nagar, Jagdish Chand Bansal, 2014-07-08 The proceedings of SocProS 2013 serve as an academic bonanza for scientists and researchers working in the field of Soft Computing This book contains theoretical as well as practical aspects of Soft Computing an umbrella term for techniques like fuzzy logic neural networks and evolutionary algorithms swarm intelligence algorithms etc This book will be beneficial for the young as well as experienced researchers dealing with complex and intricate real world problems for which finding a solution by traditional methods is very difficult The different areas covered in the proceedings are Image Processing Cryptanalysis Supply Chain Management Newly Proposed Nature Inspired Algorithms Optimization Problems related to Medical and Health Care Networking etc

Evolutionary Computation in Combinatorial Optimization Peter Merz, Jin-Kao Hao, 2011-04-27 This book constitutes the refereed proceedings of the 11th European Conference on Evolutionary

Computation in Combinatorial Optimization EvoCOP 2011 held in Torino Italy in April 2011 The 22 revised full papers presented were carefully reviewed and selected from 42 submissions The papers present the latest research and discuss current developments and applications in metaheuristics a paradigm to effectively solve difficult combinatorial optimization problems appearing in various industrial economical and scientific domains Prominent examples of metaheuristics are evolutionary algorithms simulated annealing tabu search scatter search memetic algorithms variable neighborhood search iterated local search greedy randomized adaptive search procedures estimation of distribution algorithms and ant colony optimization

**Regional Conference on Science, Technology and Social Sciences (RCSTSS 2016)** Nor Azizah Yacob, Nur Asmaliza Mohd Noor, Nor Yuziah Mohd Yunus, Rahmah Lob Yussof, Shaikh Abdul Karim Yamani Zakaria, 2018-05-26 This book gathers selected theoretical and applied science papers presented at the 2016 Regional Conference of Sciences Technology and Social Sciences RCSTSS 2016 organized biannually by the Universiti Teknologi MARA Pahang Malaysia Addressing a broad range of topics including architecture computer science engineering environmental and management furniture forestry health and medicine material science mathematics plantation and agrotechnology sports science and statistics the book serves as an essential platform for disseminating research findings and inspires positive innovations in the region s development The carefully reviewed papers in this volume present work by researchers of local regional and global prominence Taken together they offer a valuable reference guide and point of departure for all academics and students who want to pursue further research in their respective fields

**Data Science** Yi Yu, Haiwei Pan, Hongzhi Wang, Chen Yu, Qilong Han, Haiyi Liu, Xianhua Song, Zeguang Lu, 2025-11-09 This book constitutes the refereed proceedings of the 11th International Conference on Data Science ICPCSEE 2025 held in Hiroshima Japan during September 19 21 2025 The 41 full papers and 1 short papers included in this book were carefully reviewed and selected from 135 submissions They were organized in topical sections as follows Education using big data intelligent computing or data mining etc Education research methods and materials for data science and engineering Machine Learning for Data Science Basic Theory and Techniques for Data Science Application of Blockchain Big Data Management and Applications Industrial Digitization and Applications Applications of Data Science Data Security and Privacy Data driven Scientific Research and Novel methods for data analytics

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