

# Routing With Genetic Algorithm

**Phuong Khanh Nguyen**

## **Bio-inspired Algorithms for the Vehicle Routing**

**Problem** Francisco Baptista Pereira, Jorge

Tavares, 2008-09-10 The vehicle routing problem (VRP) is one of the most famous combinatorial optimization problems. In simple terms, the goal is to determine a set of routes with overall minimum cost that can satisfy several geographical scattered demands. A fleet of vehicles located in one or more depots is available to fulfill the requests. A large number of variants exist, adding different constraints to the original definition. Some examples are related to the number of depots, the ordering for visiting the customers or to time windows specifying a desirable period to arrive to a given location. The original version of this problem was proposed by Dantzig and Ramser in 1959 [1]. In their seminal paper, the authors address the calculation of a set of optimal routes for a fleet of gasoline delivery trucks. Since then, the VRP has attracted the attention of a large number of researchers. A considerable part of its success is a consequence of its practical interest, as it resembles many real-world problems faced everyday by distribution and transportation companies, just to mention a few applications areas. In this context, the development of efficient optimization techniques is crucial. They are able to provide new and enhanced solutions to logistic operations, and may therefore lead to a substantial reduction in costs for companies. Additionally, and from a research oriented perspective, the VRP is a challenging NP-hard problem providing excellent benchmarks to assess the efficiency of new global optimization algorithms.

Genetic Algorithms and Genetic Programming Michael

Affenzeller, Stefan Wagner, Stephan Winkler, Andreas Beham, 2009-04-09 Genetic Algorithms and Genetic

Programming: Modern Concepts and Practical Applications discusses algorithmic developments in the context of genetic algorithms (GAs) and genetic programming (GP). It applies the algorithms to significant combinatorial optimization problems and describes structure identification using HeuristicLab as a platform for al

**A Hybrid Generational Genetic Algorithm for the Periodic Vehicle Routing Problem with Time Windows**  
Phuong Khanh Nguyen,2012

Neutrosophic Genetic Algorithm for solving the Vehicle Routing Problem with uncertain travel times Rafael Rojas-Gualdrón, Florentin Smarandache, 2022-12-01 The Vehicle Routing Problem (VRP) has been extensively studied by different researchers from all over the world in recent years. Multiple solutions have been proposed for different variations of the problem, such as Capacitive Vehicle Routing Problem (CVRP), Vehicle Routing Problem with Time Windows (VRP-TW), Vehicle Routing Problem with Pickup and Delivery (VRPPD), among others, all of them with deterministic times. In the last years, researchers have been interested in including in their different models the variations that travel times may experience when exposed to all kind of phenomena, mainly vehicle traffic. This article addresses the VRP from this perspective, proposing the design and implementation of a genetic algorithm based on neutrosophic theory for calculating the fitness function of each route, considering the variability and uncertainty present in travel times. A deterministic genetic algorithm is also implemented with the average travel times to compare it with the neutrosophic algorithm using simulation. As conclusion, a deterministic algorithm does not necessarily generate the best solution in the real world, full of uncertainty. Also, the quantification of uncertainty using neutrosophic theory can be used in route planning, opening

a broad and interesting field of research for future investigations.

Genetic and Evolutionary Computation--GECCO 2003  
Erick Cantú-Paz, 2003-07-08 The set LNCS 2723 and LNCS 2724 constitutes the refereed proceedings of the Genetic and Evolutionary Computation Conference, GECCO 2003, held in Chicago, IL, USA in July 2003. The 193 revised full papers and 93 poster papers presented were carefully reviewed and selected from a total of 417 submissions. The papers are organized in topical sections on a-life adaptive behavior, agents, and ant colony optimization; artificial immune systems; coevolution; DNA, molecular, and quantum computing; evolvable hardware; evolutionary robotics; evolution strategies and evolutionary programming; evolutionary scheduling routing; genetic algorithms; genetic programming; learning classifier systems; real-world applications; and search based software engineering.

**A Hybrid Genetic Algorithm for the Periodic Vehicle Routing Problem with Time Windows**, 2011

**Cellular Genetic Algorithms** Enrique Alba, Bernabe Dorronsoro, 2009-04-05 Cellular Genetic Algorithms defines a new class of optimization algorithms based on the concepts of structured populations and Genetic Algorithms (GAs). The authors explain and demonstrate the validity of these cellular genetic algorithms throughout the book with equal and parallel emphasis on both theory and practice. This book is a key source for studying and designing cellular GAs, as well as a self-contained primary reference book for these algorithms.

Bio-inspired Algorithms for the Vehicle Routing Problem  
Francisco Baptista Pereira, Jorge Tavares, 2008-09-29 The vehicle routing problem (VRP) is one of the most famous combinatorial optimization problems. In simple terms, the

goal is to determine a set of routes with overall minimum cost that can satisfy several geographical scattered demands. Biological inspired computation is a field devoted to the development of computational tools modeled after principles that exist in natural systems. The adoption of such design principles enables the production of problem solving techniques with enhanced robustness and flexibility, able to tackle complex optimization situations. The goal of the volume is to present a collection of state-of-the-art contributions describing recent developments concerning the application of bio-inspired algorithms to the VRP. Over the 9 chapters, different algorithmic approaches are considered and a diverse set of problem variants are addressed. Some contributions focus on standard benchmarks widely adopted by the research community, while others address real-world situations.

**Genetic Algorithms and Engineering Design** Mitsuo Gen, Runwei Cheng, 1997-01-21 The last few years have seen important advances in the use of genetic algorithms to address challenging optimization problems in industrial engineering. Genetic Algorithms and Engineering Design is the only book to cover the most recent technologies and their application to manufacturing, presenting a comprehensive and fully up-to-date treatment of genetic algorithms in industrial engineering and operations research. Beginning with a tutorial on genetic algorithm fundamentals and their use in solving constrained and combinatorial optimization problems, the book applies these techniques to problems in specific areas--sequencing, scheduling and production plans, transportation and vehicle routing, facility layout, location-allocation, and more. Each topic features a clearly written problem description, mathematical model, and summary of conventional heuristic algorithms. All algorithms are explained in intuitive, rather than highly-

technical, language and are reinforced with illustrative figures and numerical examples. Written by two internationally acknowledged experts in the field, Genetic Algorithms and Engineering Design features original material on the foundation and application of genetic algorithms, and also standardizes the terms and symbols used in other sources--making this complex subject truly accessible to the beginner as well as to the more advanced reader. Ideal for both self-study and classroom use, this self-contained reference provides indispensable state-of-the-art guidance to professionals and students working in industrial engineering, management science, operations research, computer science, and artificial intelligence. The only comprehensive, state-of-the-art treatment available on the use of genetic algorithms in industrial engineering and operations research . . . Written by internationally recognized experts in the field of genetic algorithms and artificial intelligence, Genetic Algorithms and Engineering Design provides total coverage of current technologies and their application to manufacturing systems. Incorporating original material on the foundation and application of genetic algorithms, this unique resource also standardizes the terms and symbols used in other sources--making this complex subject truly accessible to students as well as experienced professionals. Designed for clarity and ease of use, this self-contained reference:

- \* Provides a comprehensive survey of selection strategies, penalty techniques, and genetic operators used for constrained and combinatorial optimization problems
- \* Shows how to use genetic algorithms to make production schedules, solve facility/location problems, make transportation/vehicle routing plans, enhance system reliability, and much more
- \* Contains detailed numerical examples, plus more than 160 auxiliary figures to make

solution procedures transparent and understandable

*Advances in Artificial Intelligence* Canadian Society for Computational Studies of Intelligence. Conference, Robert E. Mercer, 1998-05-27 This book constitutes the refereed proceedings of the 12th Biennial Conference of the Canadian Society for Computational Studies of Intelligence, AI'98, held in Vancouver, BC, Canada in June 1998. The 28 revised full papers presented together with 10 extended abstracts were carefully reviewed and selected from a total of more than twice as many submissions. The book is divided in topical sections on planning, constraints, search and databases; applications; genetic algorithms; learning and natural language; reasoning; uncertainty; and learning.

**Research Anthology on Multi-Industry Uses of Genetic Programming and Algorithms** Management Association, Information Resources, 2020-12-05 Genetic programming is a new and evolutionary method that has become a novel area of research within artificial intelligence known for automatically generating high-quality solutions to optimization and search problems. This automatic aspect of the algorithms and the mimicking of natural selection and genetics makes genetic programming an intelligent component of problem solving that is highly regarded for its efficiency and vast capabilities. With the ability to be modified and adapted, easily distributed, and effective in large-scale/wide variety of problems, genetic algorithms and programming can be utilized in many diverse industries. This multi-industry uses vary from finance and economics to business and management all the way to healthcare and the sciences. The use of genetic programming and algorithms goes beyond human capabilities, enhancing the business and processes of various essential industries and improving functionality along the way. The Research Anthology on Multi-Industry

Uses of Genetic Programming and Algorithms covers the implementation, tools and technologies, and impact on society that genetic programming and algorithms have had throughout multiple industries. By taking a multi-industry approach, this book covers the fundamentals of genetic programming through its technological benefits and challenges along with the latest advancements and future outlooks for computer science. This book is ideal for academicians, biological engineers, computer programmers, scientists, researchers, and upper-level students seeking the latest research on genetic programming.

*A Hybrid Genetic Algorithm for Multi-depot and Periodic Vehicle Routing Problems* ,2010

Applications of Evolutionary Computing Egbert J.W. Boers,Jens Gottlieb,Pier L. Lanzi,Robert E. Smith,Stefano Cagnoni,Emma Hart,Günther R. Raidl,Harald Tijink,2001-04-04 This book constitutes the refereed proceedings of five application-oriented workshops held concurrently as EvoWorkshops 2001 in Como, Italy in April 2001. The 52 revised full papers presented were carefully reviewed and selected out of 75 submissions. The papers are organized in topical sections on graph problems, Knapsack problems, ant algorithms, assignment problems, evolutionary algorithms analysis, permutative problems, aeronautics, image analysis and signal processing, evolutionary learning, and evolutionary scheduling and timetabling.

Practical Handbook of Genetic Algorithms Lance D. Chambers,2019-09-17 Practical Handbook of Genetic Algorithms, Volume 3: Complex Coding Systems contains computer-code examples for the development of genetic algorithm systems - compiling them from an array of practitioners in the field. Each contribution of this singular



resource includes: unique code segments documentation  
descripti

### **Genetic Algorithms and Engineering Optimization**

Mitsuo Gen, Runwei Cheng, 1999-12-28 Im Mittelpunkt dieses Buches steht eines der wichtigsten Optimierungsverfahren der industriellen Ingenieurtechnik: Mit Hilfe genetischer Algorithmen lassen sich Qualität, Design und Zuverlässigkeit von Produkten entscheidend verbessern. Das Verfahren beruht auf der Wahrscheinlichkeitstheorie und lehnt sich an die Prinzipien der biologischen Vererbung an: Die Eigenschaften des Produkts werden, unter Beachtung der äußeren Randbedingungen, schrittweise optimiert. Ein hochaktueller Band international anerkannter Autoren. (03/00)

### **New Ideas in Optimization**

David Corne, Marco Dorigo, Fred Glover, 1999 Optimization is a pivotal aspect of software design. The techniques treated in this text represent research as elucidated by the leaders in the field. The optimization methods are applied to real problems, such as hillclimbing, simulated annealing, and tabu search.

Vehicle Routing Problem in Logistics Ishtiaq Mohammed Syed, 2011

GIDEON Sam Rabindranath Thangiah, 1991

*~A Genetic Algorithm Applied to Multiple Objective Vehicle Routing Problem* Martin Geiger, 2001

**A Genetic Algorithm for UAV Routing Integrated with a Parallel Swarm Simulation** Matthew A. Russell, 2005

Reviewing **Routing With Genetic Algorithm**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and

interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Routing With Genetic Algorithm**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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the second step  
the paper  
investigated how  
female leaders  
perceive and  
exercise different  
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across different  
cultures

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several important  
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influence of

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organizational  
culture 2 the  
importance of  
knowledge in  
organization has  
been highlighted  
as early as in  
1890 by alfred  
marshall however  
its popularity has  
been accentuated  
only in the  
nineties 3 the  
intensification of  
interest in  
knowledge

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mechanisms that

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affected by  
cultural type so as  
to serve the  
organizational  
strategy but they  
also transform  
culture by  
imposing new  
values trends and  
behavioral norms  
hypothesis h1 is  
being accepted  
while the revealed  
relationship was  
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female leadership  
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as the impact of  
culture on  
leadership more  
precisely the  
focus will be on  
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 thinking through  
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