

1. Record Nr.	UNISA996393639703316
Autore	Hart John, D.D.
Titolo	The charitable Christian or, A word of comfort from the God of comfort, to such as are truly poor [[electronic resource] ] : And a word of Christian counsel and advice to such as are worldly rich, stirring them up to the Christian duty and practice of charity. With some powerful motives and perswasions thereunto drawn from the word of God, to convince men of the necessity of this Christian duty with the forse evils and calamities which are threatned in the Word of God, against unmerciful men. / / Published by a Lover of Hospitality
Pubbl/distr/stampa	[London], : Printed by A.P[urslowe]. and I.Haly] for W. Thackeray, T. Passinger, P. Brooksby, and J. Williamson, [1678?]
Descrizione fisica	[24] p. : port
Soggetti	Charity Christian life Conduct of life
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Attributed to John Hart. Cf. Wing (2nd ed.). Date of publication suggested by Wing (2nd ed.). Frontispiece is a port. captioned "John Hart, D.D." "Licensed and entered according to order" --Colophon. Imperfect: faded with some loss of text. Reproduction of original in: British Library.
Sommario/riassunto	eebo-0018

2. Record Nr.	UNINA9911008398403321
Autore	Moriarity Sean
Titolo	Genetic algorithms in Elixir : solve problems using evolution // Sean Moriarity
Pubbl/distr/stampa	[Raleigh, North Carolina] : , : The Pragmatic Programmers, LLC, , [2021] ©2021
ISBN	9781680508307 168050830X 9781680508314 1680508318
Edizione	[First edition.]
Descrizione fisica	1 online resource (235 pages)
Disciplina	518.1
Soggetti	Algorithms Evolutionary programming (Computer science) Genetic algorithms
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover -- Table of Contents -- Disclaimer -- Acknowledgments -- Preface -- Who This Book Is For -- What's in This Book -- How to Use This Book -- How Does Elixir Fit In? -- 1. Writing Your First Genetic Algorithm -- Understanding Genetic Algorithms -- Introducing the One-Max Problem -- Initializing the Population -- Understanding the Flow of Genetic Algorithms -- Selecting Parents -- Creating Children -- Running Your Solution -- Adding Mutation -- What You Learned -- 2. Breaking Down Genetic Algorithms -- Reviewing Genetic Algorithms -- Looking Deeper into Genetic Algorithms -- Using Mix to Write Genetic Algorithms -- Building a Framework for Genetic Algorithms -- Understanding Hyperparameters -- Solving the One-Max Problem Again -- What You Learned -- 3. Encoding Problems and Solutions -- Using Structs to Represent Chromosomes -- Using Behaviours to Model Problems -- Understanding and Choosing Genotypes -- Solving One-Max for the Last Time -- Spelling Words with Genetic Algorithms -- What You Learned -- 4. Evaluating Solutions and Populations -- Optimizing Cargo Loads -- Introducing Penalty Functions -- Applying a

Penalty to the Shipping Problem -- Defining Termination Criteria --  
Applying Termination Criteria to Shipping -- Crafting Fitness Functions  
-- Exploring Different Types of Optimization -- What You Learned --  
5. Selecting the Best -- Exploring Selection -- Customizing Selection in  
Your Framework -- Implementing Common Selection Strategies --  
What You Learned -- 6. Generating New Solutions -- Introducing N-  
Queens -- Solving N-Queens with Order-One Crossover -- Exploring  
Crossover -- Implementing Other Common Crossover Strategies --  
Crossing Over More Than Two Parents -- Implementing Chromosome  
Repairment -- What You Learned -- 7. Preventing Premature  
Convergence -- Breaking Codes with Genetic Algorithms --  
Understanding Mutation.  
Customizing Mutation in Your Framework -- Implementing Common  
Mutation Strategies -- Other Methods to Combat Convergence -- What  
You Learned -- 8. Replacing and Transitioning -- Creating a Class  
Schedule -- Understanding Reinsertion -- Experimenting with  
Reinsertion -- Growing and Shrinking Populations -- Local Versus  
Global Reinsertion -- What You Learned -- 9. Tracking Genetic  
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Logging Statistics Using ETS -- Tracking Genealogy in a Genealogy Tree  
-- What You Learned -- 10. Visualizing the Results -- Visualizing the  
Genealogy of the Tiger Evolution -- Visualizing Basic Statistics --  
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-- What You Learned -- 11. Optimizing Your Algorithms --  
Benchmarking and Profiling Genetic Algorithms -- Writing Fast Elixir --  
Improving Performance with Parallelization -- Improving Performance  
with NIFs -- What You Learned -- 12. Writing Tests and Code Quality  
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You Learned -- 13. Moving Forward -- Learning with Evolution --  
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Evolution -- Evolving Neural Networks -- Where to Go Next --  
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- - - - U - - - - V - - - - W - - - - X - - - - Z - .

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## Sommario/riassunto

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 applications, you'll learn the underlying principles of problem solving using genetic algorithms.

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