1.	Record Nr.	UNINA9910999676903321
	Titolo	Genetic Programming : 28th European Conference, EuroGP 2025, Held as Part of EvoStar 2025, Trieste, Italy, April 23–25, 2025, Proceedings / / edited by Bing Xue, Luca Manzoni, Illya Bakurov
	Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
	ISBN	3-031-89991-1
	Edizione	[1st ed. 2025.]
	Descrizione fisica	1 online resource (X, 258 p. 79 illus., 74 illus. in color.)
	Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 15609
	Disciplina	005.13
	Soggetti	Programming languages (Electronic computers)
		System theory
		Computer networks
		Machine learning
		Natural language processing (Computer science)
		Programming Language
		Complex Systems
		Computer Communication Networks
		Machine Learning
		Natural Language Processing (NLP)
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	-- Ghost Swarms: Learning Swarm Rules from Environmental Changes Alone. -- A Systematic Evaluation of Evolving Highly Nonlinear Boolean Functions in Odd Sizes. -- Exploring the Impact of Data Scale on Mutation Step Size in SLIM-GSGP. -- Multi-Objective Evolutionary Design of Explainable EEG Classifier. -- On the Effectiveness of Crossover Operators in Cartesian Genetic Programming. -- Population Diversity, Information Theory and Genetic Improvement. -- Introducing Crossover in SLIM-GSGP. -- Exploring the Integration of Cellular Structures in Genetic Programming-based Methods. -- Ant-based Metaheuristics Struggle to Solve the Cartesian Genetic Programming Learning Task. -- Designing Lookahead Relocation Rules for the Container Relocation Problem with Genetic Programming. --

Evolved and Transparent Pipelines for Biomedical Image Classification. -- Unified Piecewise Symbolic Regression. -- Was Tournament Selection All We Ever Needed? A Critical Reflection on Lexicase Selection. -- The Role of Stepping Stones in MAP-Elites: Insights from Search Trajectory Networks. -- Micro-Step Time-Series Regression: Insights from System Identification Using Symbolic Regression.

Sommario/riassunto	This book constitutes the refereed proceedings of the 28th European Conference on Genetic Programming, EuroGP 2025, held in Trieste, Italy, during April 23–25, 2025 and co-located with the EvoStar events, EvoCOP, EvoMUSART, and EvoApplications. The 10 full papers were and 5 short papers included in this volume were carefully reviewed and selected from 27 submissions.The wide range of topics in this volume reflects the current state of research in the field. The universality of computer programs and their importance in so many areas of our lives means that automating these tasks is an exceptionally ambitious challengewith far-reaching implications.