1. Record Nr. UNISA996466367803316

Autore	Gerhard Jürgen
Titolo	Modular Algorithms in Symbolic Summation and Symbolic Integration [[electronic resource] /] / by Jürgen Gerhard
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2005
ISBN	3-540-30137-2
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (XVI, 228 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 3218
Classificazione	54.10
Disciplina	005.1
Soggetti	Algorithms Numerical analysis Computer science—Mathematics Computer mathematics Algorithm Analysis and Problem Complexity Numeric Computing Symbolic and Algebraic Manipulation Computational Science and Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. [207]-216) and index.
Nota di contenuto	1. Introduction -- 2. Overview -- 3. Technical Prerequisites -- 4. Change of Basis -- 5. Modular Squarefree and Greatest Factorial Factorization -- 6. Modular Hermite Integration -- 7. Computing All Integral Roots of the Resultant -- 8. Modular Algorithms for the Gosper-Petkovšek Form -- 9. Polynomial Solutions of Linear First Order Equations -- 10. Modular Gosper and Almkvist & Zeilberger Algorithms.
Sommario/riassunto	This work brings together two streams in computer algebra: symbolic integration and summation on the one hand, and fast algorithmics on the other hand. In many algorithmically oriented areas of computer science, theanalysisof- gorithms–placedintothe limelightbyDonKnuth' stalkat the 1970ICM –provides a crystal-clear criterion for success. The researcher who designs an algorithmthat is faster (asymptotically, in the worst case) than any previous method receives instant grati?cation: her result will be recognized as valuable. Alas, the downside is that

	such results come along quite infrequently, despite our best efforts. An alternative evaluation method is to run a new algorithm on examples; this has its obvious problems, but is sometimes the best we can do. George Collins, one of the fathers of computer algebra and a great experimenter,wrote in 1969: “I think this demonstrates again that a simple analysis is often more revealing than a ream of empirical data (although both are important). ” Within computer algebra, some areas have traditionally followed the former methodology, notably some parts of polynomial algebra and linear algebra. Other areas, such as polynomial system solving, have not yet been amenable to this - proach. The usual “input size” parameters of computer science seem inadequate, and although some natural “geometric” parameters have been identi?ed (solution dimension, regularity), not all (potential) major progress can be expressed in this framework. Symbolic integration and summation have been in a similar state.

2.

Record Nr.	UNISA996485659503316
Autore	Evans Ben <1976->
Titolo	NASA's Voyager missions : exploring the Outer Solar system and beyond / / Ben Evans
Pubbl/distr/stampa	Cham : , : Springer, , [2022] ©2022
ISBN	9783031079238
Edizione	[Second edition.]
Descrizione fisica	1 online resource (256 pages) : illustrations
Collana	Springer-Praxis books in space exploration, , 2731-541X
Disciplina	919.9/204
Soggetti	Outer space Exploration
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Wanderers Chapter 2. Chance of Three Lifetimes Chapter 3. Into the Realm of Jove Chapter 4. Lord of the Rings Chapter 5. Bullseye Uranus Chapter 6. Wild Neptune Chapter 7. A Message from Humanity
Sommario/riassunto	2022 marks the 45th anniversary of the Voyager probe launches. Launched into space in 1977, these twin probes explored the farthest reaches of the Solar System before venturing on a one-way journey

	beyond, all the while testing the bounds of science, robotic exploration and our collective imagination. This heavily revised commemorative book takes a comprehensive look at their incredible achievements, future potential and overall legacy. Chronicled herein is an epic journey to unveil the mysterious outer reaches of the Solar System for the first time. The book recounts the Voyagers travels through the asteroid belt and past the giant gaseous planets Jupiter and Saturn, as well as Voyager 2s forays near the distant ice giants Uranus and Neptune. Each chapter details in full the game-changing scientific data and glorious imagery they sent back to Earth. This new edition incorporates all the new data we have learned in the nearly 20 years since its original publication, discussing how the knowledge first gleaned with Voyager has been built upon in subsequent decades by Cassini, Juno and New Horizons. The Voyager probes captured imaginations around the world; now is an opportune time to reflect on their unparalleled quest across the edges of the Solar System and the enigmatic interstellar medium beyond

3.	Record Nr.	UNINA9910317744903321
	Autore	Barbara Sladonja
	Titolo	The Mediterranean Genetic Code : Grapevine and Olive / / edited by Danijela Poljuha and Barbara Sladonja
	Pubbl/distr/stampa	IntechOpen, 2013 Rijeka, Croatia : , : IntechOpen, , 2013 ©2013
	ISBN	953-51-4251-8
	Descrizione fisica	1 online resource (324 pages) : illustrations
	Disciplina	574.8
	Soggetti	Genetic Code
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Sommario/riassunto	The book ""The Mediterranean Genetic Code - Grapevine and Olive""

collects relevant papers documenting the results of research in grapevine and olive genetics, as a contribution to overall compendium of the existing biodiversity for both species with insight into molecular mechanisms responsible for their desirable and important traits. Book encompasses a broad and diverse palette of different topics related to grapevine and olive genetics, with no areal or any other strict limitation, keeping the title as a loose frame for borderless science. Divided in four sections it takes us for a ""molecular walk"" through different levels of genetic variability, uncovering the remains of still existing wild populations and treasures of neglected local peculiarities, weaving the network from plant to product and back to the beginning, to the hearth of all questions asked and answers hidden in genetics.