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Math

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This book
constitutes the
proceedings of the
31st International
Workshop on
Combinatorial
Algorithms which
was planned to
take place in

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Bordeaux, France, during June 8-10, 2020. Due to the COVID-19 pandemic the conference changed to a virtual format. The 30 full papers included in this book were carefully reviewed and selected from 62 submissions. They

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focus on algorithms design for the myriad of combinatorial problems that underlie computer applications in science, engineering and business.

The goal of this book is to explain, at the graduate student level,

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connections
between tropical
geometry and
optimization.
Building bridges
between these two
subject areas is
fruitful in two ways.
Through tropical
geometry
optimization
algorithms become
applicable to
questions in

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algebraic
geometry.
Conversely, looking
at topics in
optimization
through the
tropical geometry
lens adds an
additional layer of
structure. The
author covers
contemporary
research topics
that are relevant

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for applications such as phylogenetics, neural networks, combinatorial auctions, game theory, and computational complexity. This self-contained book grew out of several courses given at Technische Universität Berlin

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and elsewhere, and the main prerequisite for the reader is a basic knowledge in polytope theory. It contains a good number of exercises, many examples, beautiful figures, as well as explicit tools for computations using `polymake`

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\$.

This book gives a coherent development of the current understanding of the fluid dynamics of the middle latitude atmosphere. It is primarily aimed at post-graduate and advanced undergraduate

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level students and does not assume any previous knowledge of fluid mechanics, meteorology or atmospheric science. The book will be an invaluable resource for any quantitative atmospheric scientist who wishes to increase

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their understanding of the subject. The importance of the rotation of the Earth and the stable stratification of its atmosphere, with their implications for the balance of larger-scale flows, is highlighted throughout. Clearly structured

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throughout, the first of three themes deals with the development of the basic equations for an atmosphere on a rotating, spherical planet and discusses scale analyses of these equations. The second theme explores the importance of

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rotation and introduces vorticity and potential vorticity, as well as turbulence. In the third theme, the concepts developed in the first two themes are used to give an understanding of balanced motion in real atmospheric phenomena. It

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starts with quasi-geostrophic theory and moves on to linear and nonlinear theories for mid-latitude weather systems and their fronts. The potential vorticity perspective on weather systems is highlighted with a discussion of the

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Rossby wave propagation and potential vorticity mixing covered in the final chapter. This book presents selected papers from the 3rd International Workshop on Computational Engineering held in Stuttgart from October 6 to 10,

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2014, bringing together innovative contributions from related fields with computer science and mathematics as an important technical basis among others. The workshop discussed the state of the art and the further evolution of numerical

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techniques for simulation in engineering and science. We focus on current trends in numerical simulation in science and engineering, new requirements arising from rapidly increasing parallelism in computer

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architectures, and
novel

mathematical
approaches.

Accordingly, the
chapters of the
book particularly
focus on parallel
algorithms and
performance
optimization,
coupled systems,
and complex
applications and

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optimization.

SCHOLAR--a

Scientific

Celebration

Highlighting Open

Lines of Arithmetic

Research

Topological Data

Analysis for

Genomics and

Evolution

12th International

Conference, CICM

2019, Prague,

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Czech Republic,
July 8-12, 2019,
Proceedings
Euro-Par 2016
International
Workshops,
Grenoble, France,
August 24-26,
2016, Revised
Selected Papers
Organized
Collapse: An
Introduction to
Discrete Morse

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Theory

International

Practices to

Promote Budget

Literacy

Contemporary

Computational

Mathematics - A

Celebration of the

80th Birthday of

Ian Sloan

This book is an

introductory

text that charts

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the recent developments in the area of Whitney-type extension problems and the mathematical aspects of interpolation of data. It provides a detailed tour of a new and active area of

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mathematical
research. In
each section,
the authors
focus on a
different key
insight in the
theory. The book
motivates the
more technical
aspects of the
theory through a
set of
illustrative

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examples. The results include the solution of Whitney's problem, an efficient algorithm for a finite version, and analogues for Hölder and Sobolev spaces in place of C_m . The target audience

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consists of graduate students and junior faculty in mathematics and computer science who are familiar with point set topology, as well as measure and integration theory. The book is based on

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lectures
presented at the
CBMS regional
workshop held at
the University
of Texas at
Austin in the
summer of 2019.
The Applications
of Computer
Algebra (ACA)
conference
covers a wide
range of topics

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from Coding
Theory to
Differential
Algebra to
Quantam
Computing,
focusing on the
interactions of
these and other
areas with the
discipline of
Computer
Algebra. This
volume provides

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the latest developments in the field as well as its applications in various domains, including communications, modelling, and theoretical physics. The book will appeal to researchers and professors

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of computer algebra, applied mathematics, and computer science, as well as to engineers and computer scientists engaged in research and development. This volume contains the proceedings of

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the 17th
International
Conference on
Arithmetic,
Geometry,
Cryptography and
Coding Theory
(AGC2T-17), held
from June 10–14,
2019, at the
Centre
International de
Rencontres
Mathématiques in

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Marseille,
France. The
conference was
dedicated to the
memory of Gilles
Lachaud, one of
the founding
fathers of the
AGC2T series.
Since the first
meeting in 1987
the biennial
AGC2T meetings
have brought

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together the leading experts on arithmetic and algebraic geometry, and the connections to coding theory, cryptography, and algorithmic complexity. This volume highlights important new

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developments in
the field.

M. Ram Murty has
had a profound
impact on the
development of
number theory
throughout the
world. To honor
his mathematical
legacy, a
conference
focusing on new
research

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directions in
number theory
inspired by his
most significant
achievements was
held from
October 15-17,
2013, at the
Centre de
Recherches
Mathématiques in
Montréal. This
proceedings
volume is

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representative
of the broad
spectrum of
topics that were
addressed at the
conference, such
as elliptic
curves, function
field
arithmetic,
Galois
representations,
-functions,
modular forms

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and automorphic forms, sieve methods, and transcendental number theory. This book is co-published with the Centre de Recherches Mathématiques. Intelligent Computer Mathematics 6th

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International
Workshop, CTIC
2016, Marseille,
France, June
15-17, 2016,
Proceedings
Kalamata,
Greece, July
20–23 2015
Maple in
Mathematics
Education and
Research
Philosophical

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Perceptions on
Logic and Order
Fluid Dynamics
of the Mid-
Latitude
Atmosphere
Combinatorial
Algorithms

*This book constitutes
the proceedings of the
6th International
Workshop on
Computational
Topology in Image*

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*Context, CTIC 2016,
held in Marseille,
France, in June 2016.
The 24 papers
presented in this
volume were carefully
reviewed and selected
from 35 submissions.
Additionally, this
volume contains 2
invited papers. CTIC
covers a wide range of
topics such as:
topological invariants*

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*and their computation,
homology, cohomology,
linking number,
fundamental groups;
algorithm optimization
in discrete geometry,
transfer of
mathematical tools,
parallel computation in
multi-dimensional
volume context,
hierarchical
approaches;
experimental*

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*evaluation of
algorithms and
heuristics;
combinatorial or multi-
resolution models;
discrete or
computational
topology; geometric
modeling guided by
topological constraints;
computational
topological dynamics;
and use of topological
information in discrete*

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geometry applications.

Budget literacy is defined as 'the ability to read, decipher, and understand public budgets to enable and enhance meaningful citizen participation in the budget process'. It is comprised of two main parts - (i) a technical understanding of public budgets, including

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familiarity with government spending, tax rates and public debt and; (ii) the ability to engage in the budget process, comprising of practical knowledge on day-to-day issues, as well as an elementary understanding of the economic, social and political implications of budget policies, the stakeholders involved

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and when and how to provide inputs during the annual budget cycle. Given that no international standards or guidelines have been established for budget literacy education to date, this book seeks to address this gap by taking stock of illustrative initiatives promoting budget literacy for youth in

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selected countries. The underlying presumption is that when supply-side actors in the budget process -- governments -- simplify and disseminate budget information for demand-side actors -- citizens -- this information will then be used by citizens to provide feedback on the budget. However, since

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citizens are often insufficiently informed about public budgets to constructively participate in budget processes one way to empower them and to remedy the problem of "budget illiteracy" is to provide budget-literacy education in schools to youth, helping them evolve into civic-minded adults with the

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essential knowledge needed for analyzing their government's fiscal policy objectives and measures, and the confidence and sense of social responsibility to participate in the oversight of public resources. This book elaborates on approaches, learning outcomes, pedagogical strategies and

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assessment approaches for budget literacy education, and presents lessons that are relevant for the development, improvement, or scaling up of budget literacy initiatives.

"Binding: PB"--

This book constitutes the proceedings of the workshops of the 23rd International

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*Conference on Parallel
and Distributed
Computing, Euro-Par
2016, held in Grenoble,
France in August 2016.
The 65 full papers
presented were
carefully reviewed and
selected from 95
submissions. The
volume includes the
papers from the
following workshops:
Euro-EDUPAR*

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*(Second European
Workshop on Parallel
and Distributed
Computing Education
for Undergraduate
Students) – HeteroPar
2016 (the 14th
International
Workshop on
Algorithms, Models
and Tools for Parallel
Computing on
Heterogeneous
Platforms) – IWMSE*

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*(5th International
Workshop on Multicore
Software Engineering)
– LSDVE (Fourth
Workshop on Large-
Scale Distributed
Virtual Environments)
- PADABS (Fourth
Workshop on Parallel
and Distributed Agent-
Based Simulations) –
PBio (Fourth
International
Workshop on*

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*Parallelism in
Bioinformatics) –
PELGA (Second
Workshop on
Performance
Engineering for Large-
Scale Graph Analytics)
– REPPAR (Third
International
Workshop on
Reproducibility in
Parallel Computing) –
Resilience (9th
Workshop in Resilience*

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*in High Performance
Computing in Clusters,
Clouds, and Grids) –
ROME (Fourth
Workshop on Runtime
and Operating Systems
for the Many-Core Era)
– UCHPC (9th
Workshop on
UnConventional High-
Performance
Computing).
Applications of
Computer Algebra*

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***NIC Symposium 2014 -
Proceedings***

4th International

Conference, Seoul,

South Korea, August

5-9, 2014, Proceedings

12 –13 February 2014 |

Jülich, Germany

27th International

Symposium, GD 2019,

Prague, Czech

Republic, September

17–20, 2019,

Proceedings

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*Teaching Mathematics
Using Popular Culture*

This book
constitutes the
proceedings of
the 6th
International
Conference on
Mathematical
Software, ICMS
2018, held in
South Bend, IN,
USA, in July

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2018. The 59 papers included in this volume were carefully reviewed and selected from numerous submissions. The program of the 2018 meeting consisted of 20 topical

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sessions, each of which providing an overview of the challenges, achievements and progress in a subeld of mathematical software research, development and use.

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This book
constitutes the
thoroughly
refereed post-
conference
proceedings of
the 6th
International
Conference on
Mathematical
Aspects of
Computer and
Information

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Sciences, MACIS
2015, held in
Berlin,
Germany, in
November 2015.
The 48 revised
papers
presented
together with 7
invited papers
were carefully
reviewed and
selected from

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numerous
submissions.
The papers are
grouped in
topical
sections on
curves and
surfaces,
applied
algebraic
geometry,
cryptography,
verified

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numerical
computation,
polynomial
system solving,
managing
massive data,
computational
theory of
differential
and difference
equations, data
and knowledge
exploration,

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algorithm
engineering in
geometric
computing, real
complexity:
theory and
practice,
global
optimization,
and general
session.

Mathematics
teachers often

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struggle to motivate their students. One way to cultivate and maintain student interest is for teachers to incorporate popular media into their methodology.

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Organized on
the subject
strands of the
Common Core,
this book
explores math
concepts
featured in
contemporary
films and
television
shows and
offers numerous

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examples high school math teachers can use to design lessons using pop culture references. Outlines for lessons are provided along with background stories and historical

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references.

A proof is a successful demonstration that a conclusion necessarily follows by logical reasoning from axioms which are considered evident for the

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given context
and agreed upon
by the
community. It
is this concept
that sets
mathematics
apart from
other
disciplines and
distinguishes
it as the
prototype of a

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deductive
science. Proofs
thus are
utterly
relevant for
research,
teaching and
communication
in mathematics
and of
particular
interest for
the philosophy

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of mathematics.

In computer science, moreover, proofs have proved to be a rich source for already certified algorithms.

This book provides the reader with a

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collection of
articles
covering
relevant
current
research topics
circled around
the concept
'proof'. It
tries to give
due
consideration
to the depth

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and breadth of
the subject by
discussing its
philosophical
and
methodological
aspects,
addressing
foundational
issues induced
by Hilbert's
Programme and
the benefits of

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the arising
formal notions
of proof,
without
neglecting
reasoning in
natural
language proofs
and
applications in
computer
science such as
program

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extraction.

From Music to
Mathematics
Mathematical
Software – ICMS
2018

7th
International
Conference,
MACIS 2017,
Vienna,
Austria,
November 15-17,

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2017,

Proceedings

Fitting Smooth

Functions to

Data

12th

International

Computer

Science

Symposium in

Russia, CSR

2017, Kazan,

Russia, June

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8-12, 2017,

Proceedings

Sally Ride

Exploring the

Connections

*This book constitutes
the refereed*

proceedings of the

12th International

Conference on

Intelligent Computer

Mathematics, CICM

2019, held in Prague,

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Czech Republic, in July 2019. The 19 full papers presented were carefully reviewed and selected from a total of 41 submissions. The papers focus on digital and computational solutions which are becoming the prevalent means for the generation,

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communication, processing, storage and curation of mathematical information. Separate communities have developed to investigate and build computer based systems for computer algebra, automated deduction, and mathematical publishing as well as

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novel user interfaces. While all of these systems excel in their own right, their integration can lead to synergies offering significant added value.

This book constitutes the refereed proceedings of the 27th International Symposium on Graph Drawing and Network

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*Visualization, GD
2019, held in Prague,
Czech Republic, in
September 2019. The
42 papers and 12
posters presented in
this volume were
carefully reviewed
and selected from 113
submissions. They
were organized into
the following topical
sections: Cartograms
and Intersection*

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*Graphs, Geometric
Graph Theory,
Clustering, Quality
Metrics,
Arrangements, A Low
Number of Crossings,
Best Paper in Track 1,
Morphing and
Planarity,
Parameterized
Complexity,
Collinearities,
Topological Graph
Theory, Best Paper in*

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*Track 2, Level
Planarity, Graph
Drawing Contest
Report, and Poster
Abstracts.*

*From the first chapter
through the last,
readers eager to learn
more about the
connections between
mathematics and
music will find a
comprehensive
textbook designed to*

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*satisfy their natural
curiosity.*

*This volume contains
the proceedings of the
international*

*conference ""Ordered
Algebraic Structures
and Related Topics",*

*held from October
12-16, 2015, at CIRM,*

Luminy, Marseilles,

France. Papers

contained in this

volume cover topics in

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*real analytic
geometry, real
algebra, and real
algebraic geometry
including complexity
issues, model theory
of various algebraic
and differential
structures, Witt
equivalence of fields,
and the moment
problem.*

*Key Findings and
Lessons Learned*

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*Euro-Par 2016:
Parallel Processing
Workshops
Mathematical
Software – ICMS
2020
Cybernetics and
Mathematics
Applications in
Intelligent Systems
Understanding
Population Health
Analytics
6th International*

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*Conference, MACIS
2015, Berlin,
Germany, November
11-13, 2015, Revised
Selected Papers
13th International
Conference, PPAM
2019, Bialystok,
Poland, September
8–11, 2019, Revised
Selected Papers, Part
II*

This book

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constitutes the proceedings of the 4th International Conference on Mathematical Software, ICMS 2014, held in Seoul, South Korea, in August 2014. The 108 papers included in this volume were carefully reviewed

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and selected from
150 submissions.
The papers are
organized in topical
sections named:
invited; exploration;
group; coding;
topology; algebraic;
geometry; surfaces;
reasoning; special;
Groebner;
triangular;

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parametric;
interfaces and
general.

This book
constitutes the
proceedings of the
12th International
Computer Science
Symposium in
Russia, CSR 2017,
held in Kazan,
Russia, in June

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2017. The 22 full papers presented in this volume were carefully reviewed and selected from 44 submissions. In addition the book contains 6 invited lectures. The scope of the proposed topics is quite broad and covers a wide

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range of areas such as: include, but are not limited to:
algorithms and data structures;
combinatorial optimization;
constraint solving;
computational complexity;
cryptography;
combinatorics in

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computer science;
formal languages
and automata;
algorithms for
concurrent and
distributed systems,
networks;
applications of logic
to computer science,
e.g. proof theory,
model checking and
verification; formal

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and algorithmic aspects of bio-informatics; current challenges such as quantum computing.

An introduction to geometric and topological methods to analyze large scale biological data; includes

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statistics and
genomic
applications.

Applied topology is
a modern subject
which emerged in
recent years at a
crossroads of many
methods, all of them
topological in
nature, which were
used in a wide

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variety of applications in classical mathematics and beyond. Within applied topology, discrete Morse theory came into light as one of the main tools to understand cell complexes arising in

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different contexts, as well as to reduce the complexity of homology calculations. The present book provides a gentle introduction into this beautiful theory. Using a combinatorial approach—the

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author emphasizes acyclic matchings as the central object of study. The first two parts of the book can be used as a stand-alone introduction to homology, the last two parts delve into the core of discrete Morse theory. The

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presentation is broad, ranging from abstract topics, such as formulation of the entire theory using poset maps with small fibers, to heavily computational aspects, providing, for example, a specific algorithm of

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finding an explicit homology basis starting from an acyclic matching. The book will be appreciated by graduate students in applied topology, students and specialists in computer science and engineering, as

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well as research mathematicians interested in learning about the subject and applying it in context of their fields.

Computational
Topology in Image
Context
Essentials of
Tropical

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Combinatorics
Mathematical
Aspects of
Computer and
Information
Sciences
Strategies for
Common Core
Instruction from
Film and Television
Concepts of Proof
in Mathematics,

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Philosophy, and
Computer Science
Proceedings of the
6th Computer
Science On-line
Conference 2017
(CSOC2017), Vol 2
6th International
Conference, South
Bend, IN, USA, July
24-27, 2018,
Proceedings

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Systems of polynomial equations can be used to model an astonishing variety of phenomena. This book explores the geometry and algebra of such systems and includes

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numerous

applications.

The book begins
with

elimination

theory from

Newton to the

twenty-first

century and

then discusses

the interaction

between

algebraic

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geometry and numerical computations, a subject now called numerical algebraic geometry. The final three chapters discuss applications to geometric

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modeling,
rigidity
theory, and
chemical
reaction
networks in
detail. Each
chapter ends
with a section
written by a
leading expert.
Examples in the
book include

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oil wells, HIV
infection,
phylogenetic
models, four-
bar mechanisms,
border rank,
font design,
Stewart-Gough
platforms,
rigidity of
edge graphs,
Gaussian
graphical

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models,
geometric
constraint
systems, and
enzymatic
cascades. The
reader will
encounter
geometric
objects such as
Bézier patches,
Cayley–Menger
varieties, and

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toric

varieties; and algebraic objects such as resultants, Rees algebras, approximation complexes, matroids, and toric ideals. Two important subthemes that appear in

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multiple

chapters are
toric varieties
and algebraic
statistics. The
book also
discusses the
history of
elimination
theory,
including its
near
elimination in

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the middle of
the twentieth
century. The
main goal is to
inspire the
reader to learn
about the
topics covered
in the book.
With this in
mind, the book
has an
extensive

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bibliography
containing over
350 books and
papers.

This book
constitutes the
refereed
proceedings of
the third Maple
Conference, MC
2019, held in
Waterloo,
Ontario,

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Canada, in
October 2019.
The 21 revised
full papers and
9 short papers
were carefully
reviewed and
selected out of
37 submissions,
one invited
paper is also
presented in
the volume. The

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papers included
in this book
cover topics in
education,
algorithms, and
applciations of
the
mathematical
software Maple.
This volume
contains the
proceedings of
the AMS Special

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Session on
Algebraic and
Geometric
Methods in
Applied
Discrete
Mathematics,
held on January
11, 2015, in
San Antonio,
Texas. The
papers present
connections

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between

techniques from
“pure”

mathematics and
various

applications

amenable to the
analysis of

discrete

models,

encompassing

applications of

combinatorics,

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topology,
algebra,
geometry,
optimization,
and
representation
theory. Papers
not only
present novel
results, but
also survey the
current state
of knowledge of

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important
topics in
applied
discrete
mathematics.
Particular
highlights
include: a new
computational
framework,
based on
geometric
combinatorics,

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for structure prediction from RNA sequences; a new method for approximating the optimal solution of a sum of squares problem; a survey of recent Helly-type geometric

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theorems;
applications of
representation
theory to
voting theory
and game
theory; a study
of fixed points
of tensors; and
exponential
random graph
models from the
perspective of

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algebraic
statistics with
applications to
networks. This
volume was
written for
those trained
in areas such
as algebra,
topology,
geometry, and
combinatorics
who are

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interested in tackling problems in fields such as biology, the social sciences, data analysis, and optimization. It may be useful not only for experts, but also for

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students who wish to gain an applied or interdisciplinary perspective.

Strong reasoning skills are an important aspect to cultivate in life, as they directly impact

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decision making
on a daily
basis. By
examining the
different ways
the world views
logic and
order, new
methods and
techniques can
be employed to
help expand on
this skill

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further in the
future.

Philosophical
Perceptions on
Logic and Order
is a pivotal
scholarly
resource that
discusses the
evolution of
logical
reasoning and
future

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applications
for these types
of processes.
Highlighting
relevant topics
including logic
patterns,
deductive
logic, and
inductive
logic, this
publication is
an ideal

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reference

source for
academicians,
students, and
researchers
that would like
to expand their
understanding
of how society
currently
employs the use
of logical
reasoning

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techniques.

8th

International

Conference,

MACIS 2019,

Gebze, Turkey,

November 13–15,

2019, Revised

Selected Papers

4th Maple

Conference, MC

2020, Waterloo,

Ontario,

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Canada,

November 2-6,

2020, Revised

Selected Papers

Arithmetic,

Geometry,

Cryptography

and Coding

Theory

Algebraic and

Geometric

Methods in

Discrete

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Mathematics

7th

International

Conference,

Braunschweig,

Germany, July

13-16, 2020,

Proceedings

Applications of

Polynomial

Systems

Ordered

Algebraic

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Structures and
Related Topics
This book constitutes
the refereed
proceedings of the 8th
International
Conference on
Mathematical Aspects
of Computer and
Information Sciences,
MACIS 2019, held in
Gebze, Turkey, in
November 2019. The

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22 revised papers and
14 short papers
presented were
carefully reviewed
and selected from 66
submissions. The
papers are organized
in the following
topical sections:
algorithms and
foundation; security
and cryptography;
combinatorics, codes,

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designs and graphs;
data modeling and
machine learning;
tools and software
track.

This book constitutes
refereed proceedings
of the 4th Maple
Conference, MC
2020, held in
Waterloo, Ontario,
Canada, in November
2020. The 25 revised

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full papers and 3 short papers were carefully reviewed and selected out of 75 submissions, one invited paper is also presented in the volume. The papers included in this book cover topics in education, algorithms, and applications of the mathematical software Maple.

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This is Part 2 of a two-volume set. Since Oscar Zariski organized a meeting in 1954, there has been a major algebraic geometry meeting every decade: Woods Hole (1964), Arcata (1974), Bowdoin (1985), Santa Cruz (1995), and Seattle (2005). The American

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Mathematical Society has supported these summer institutes for over 50 years. Their proceedings volumes have been extremely influential, summarizing the state of algebraic geometry at the time and pointing to future developments. The most recent Summer

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Institute in Algebraic
Geometry was held
July 2015 at the
University of Utah in
Salt Lake City,
sponsored by the
AMS with the
collaboration of the
Clay Mathematics
Institute. This volume
includes surveys
growing out of
plenary lectures and

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seminar talks during the meeting. Some present a broad overview of their topics, while others develop a distinctive perspective on an emerging topic.

Topics span both complex algebraic geometry and arithmetic questions, specifically, analytic

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techniques,
enumerative
geometry, moduli
theory, derived
categories, birational
geometry, tropical
geometry,
Diophantine
questions, geometric
representation theory,
characteristic and
-adic tools, etc. The
resulting articles will

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be important
references in these
areas for years to
come.

The two-volume set
LNCS 12043 and
12044 constitutes
revised selected
papers from the 13th
International
Conference on
Parallel Processing
and Applied

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Mathematics, PPAM
2019, held in
Bialystok, Poland, in
September 2019. The
91 regular papers
presented in these
volumes were selected
from 161 submissions.
For regular tracks of
the conference, 41
papers were selected
from 89 submissions.

The papers were

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organized in topical sections named as follows: Part I: numerical algorithms and parallel scientific computing; emerging HPC architectures; performance analysis and scheduling in HPC systems; environments and frameworks for parallel/distributed/cloud

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computing;
applications of
parallel computing;
parallel non-numerical
algorithms; soft
computing with
applications; special
session on GPU
computing; special
session on parallel
matrix factorizations.
Part II: workshop on
language-based

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parallel programming models (WLPP 2019); workshop on models algorithms and methodologies for hybrid parallelism in new HPC systems; workshop on power and energy aspects of computations (PEAC 2019); special session on tools for energy efficient computing;

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workshop on
scheduling for parallel
computing (SPC
2019); workshop on
applied high
performance
numerical algorithms
for PDEs;
minisymposium on
HPC applications in
physical sciences;
minisymposium on
high performance

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computing interval
methods; workshop on
complex collective
systems. Chapters
"Parallel adaptive
cross approximation
for the multi-trace
formulation of
scattering problems"
and "A High-Order
Discontinuous
Galerkin Solver with
Dynamic Adaptive

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Mesh Refinement to
Simulate Cloud
Formation Processes"
of LNCS 12043 are
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Salt Lake City 2015 :
2015 Summer
Research Institute,
Page 145/171

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July 13-31, 2015,
University of Utah,
Salt Lake City, Utah
Algebraic Geometry
America's First
Woman in Space
Recent Trends in
Computational
Engineering - CE2014
31st International
Workshop, IWOCA
2020, Bordeaux,
France, June 8-10,

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2020, Proceedings

International

Conference on

Ordered Algebraic

Structures and Related

Topics, October

12-16, 2015, Centre

International de

Rencontres

Mathématiques

(CIRM), Luminy,

France

Topology in Biology

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This book is a tribute to Professor Ian Hugh Sloan on the occasion of his 80th birthday. It consists of nearly 60 articles written by international leaders in a diverse range of areas in contemporary computational mathematics. These

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papers highlight the impact and many achievements of Professor Sloan in his distinguished academic career. The book also presents state of the art knowledge in many computational fields such as quasi-Monte Carlo and Monte Carlo

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methods for
multivariate
integration, multi-
level methods, finite
element methods,
uncertainty
quantification,
spherical designs
and integration on
the sphere,
approximation and
interpolation of
multivariate

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functions, oscillatory integrals, and in general in information-based complexity and tractability, as well as in a range of other topics. The book also tells the life story of the renowned mathematician, family man,

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colleague and friend, who has been an inspiration to many of us. The reader may especially enjoy the story from the perspective of his family, his wife, his daughter and son, as well as grandchildren, who share their views of Ian. The clear

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message of the book is that Ian H. Sloan has been a role model in science and life.

This is a book to help you quickly find the math and science information you're looking for at the library, on websites, through publishers who sell

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books and
magazines,
organizations, etc.
Think of it as my
attempt to organize a
framework for the
worlds of math and
science.

This book presents
new methods for and
approaches to real-
world problems as
well as exploratory

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research describing novel mathematics and cybernetics applications in intelligent systems. It focuses on modern trends in selected fields of technological systems and automation control theory. It also introduces new

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algorithms, methods
and applications of
intelligent systems in
automation,
technological and
industrial
applications. This
book constitutes the
refereed
proceedings of the
Cybernetics and
Mathematics
Applications in

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Intelligent Systems
Section of the 6th
Computer Science
On-line Conference
2017 (CSOC 2017),
held in April 2017.
Sally Ride made
history as the first
American woman in
space. A member of
the first astronaut
class to include
women, she broke

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through a quarter-century of white male fighter jocks when NASA chose her for the seventh shuttle mission, cracking the celestial ceiling and inspiring several generations of women. After a second flight, Ride served on the panels investigating the

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Challenger explosion and the Columbia disintegration that killed all aboard. In both instances she faulted NASA's rush to meet mission deadlines and its organizational failures. She cofounded a company promoting science and

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education for
children, especially
girls.

Mathematical
Software -- ICMS
2014

Arithmetic Geometry:
Computation and
Applications
Computer Science –
Theory and
Applications
The "People Power"

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Education

Superbook: Book 6.

Math & Science

Guide

Third Maple

Conference, MC

2019, Waterloo,

Ontario, Canada,

October 15-17,

2019, Proceedings

Parallel Processing

and Applied

Mathematics

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Optimization,
Uncertainty, Parallel
Algorithms, Coupled
and Complex
Problems

**This book constitutes
the proceedings of
the 7th International
Conference on
Mathematical
Software, ICMS
2020, held in
Braunschweig,**

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**Germany, in July
2020. The 48 papers
included in this
volume were
carefully reviewed
and selected from 58
submissions. The
program of the 2020
meeting consisted of
20 topical sessions,
each of which
providing an
overview of the**

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**challenges,
achievements and
progress in a
environment of
mathematical
software research,
development and
use.**

**This book constitutes
the refereed
proceedings of the
7th International
Conference on**

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**Mathematical
Aspects of Computer
and Information
Sciences, MACIS
2017, held in Vienna,
Austria, in
November 2017. The
28 revised papers
and 8 short papers
presented were
carefully reviewed
and selected from 67
submissions. The**

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**papers are organized
in the following
topical sections:
foundation of
algorithms in
mathematics,
engineering and
scientific
computation;
combinatorics and
codes in computer
science; data
modeling and**

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**analysis; and
mathematical
aspects of
information security
and cryptography.
For thirty years, the
biennial
international
conference AGC T
(Arithmetic,
Geometry,
Cryptography, and
Coding Theory) has**

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brought researchers to Marseille to build connections between arithmetic geometry and its applications, originally highlighting coding theory but more recently including cryptography and other areas as well. This volume contains the proceedings of

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**the 16th
international
conference, held
from June 19–23,
2017. The papers are
original research
articles covering a
large range of topics,
including weight
enumerators for
codes, function field
analogs of the
Brauer–Siegel**

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**theorem, the
computation of
cohomological
invariants of curves,
the trace
distributions of
algebraic groups,
and applications of
the computation of
zeta functions of
curves. Despite the
varied topics, the
papers share a**

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common thread: the beautiful interplay between abstract theory and explicit results.

**Graph Drawing and
Network
Visualization**