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Mathematics and *Music*

A Diderot Mathematical Forum



Springer

Mathematics And Music A Diderot Mathematical Forum

Michael R. W. Dawson



Mathematics And Music A Diderot Mathematical Forum:

Mathematics and Music Gerard Assayag, Hans G. Feichtinger, 2013-06-29 In Western Civilization Mathematics and Music have a long and interesting history in common with several interactions traditionally associated with the name of Pythagoras but also with a significant number of other mathematicians like Leibniz for instance Mathematical models can be found for almost all levels of musical activities from composition to sound production by traditional instruments or by digital means Modern music theory has been incorporating more and more mathematical content during the last decades This book offers a journey into recent work relating music and mathematics It contains a large variety of articles covering the historical aspects the influence of logic and mathematical thought in composition perception and understanding of music and the computational aspects of musical sound processing The authors illustrate the rich and deep interactions that exist between Mathematics and Music

Mathemusical Conversations: Mathematics And Computation In Music Performance And Composition Elaine Chew, Gerard Assayag, Jordan B L Smith, 2016-07-21 Mathemusical Conversations celebrates the understanding of music through mathematics and the appreciation of mathematics through music This volume is a compilation of the invited talks given at the Mathemusical Conversations workshop that took place in Singapore from 13 15 February 2015 organized by Elaine Chew in partnership with Gerard Assayag for the scientific program and with Bernard Lanskey for the artistic program The contributors are world experts and leading scholars writing on the intersection of music and mathematics They also focus on performance and composition two topics which are foundational both to the understanding of human creativity and to the creation of tomorrow's music technologies This book is essential reading for researchers in both music and mathematics It will also appeal more broadly to scholars students musicians and anyone interested in new perspectives on the intimate relationship between these two universal human activities

Music: A Mathematical Offering Dave Benson, 2007 This book explores the interaction between music and mathematics including harmony symmetry digital music and perception of sound

The Oxford Handbook of Algorithmic Music R. T. Dean, 2018 Featuring chapters by emerging and established scholars as well as by leading practitioners in the field this Handbook both describes the state of algorithmic composition and also set the agenda for critical research on and analysis of algorithmic music

Mathematics and Computation in Music Elaine Chew, Adrian Childs, Ching-Hua Chuan, 2009-06-11 This book constitutes the refereed proceedings of the Second International Conference on Mathematics and Computation in Music MCM 2009 held in New Haven CT USA in June 2009 The 26 revised full papers presented were carefully reviewed and selected from 38 submissions The MCM conference is the flagship conference of the Society for Mathematics and Computation in Music The papers deal with topics within applied mathematics computational models mathematical modelling and various further aspects of the theory of music This year's conference is dedicated to the honor of John Clough whose research modeled the virtues of collaborative work across the disciplines

Raising Public Awareness of Mathematics

Ehrhard Behrends, Nuno Crato, José Francisco Rodrigues, 2012-07-04 This collective book aims to encourage and inspire actions directed towards raising public awareness of the importance of mathematical sciences for our contemporary society in a cultural and historical perspective Mathematical societies in Europe and around the world can find ideas blueprints and suggestions for activities including concerted actions with other international organizations directed towards raising public awareness of science technology and other fields where mathematics plays a strong role The material is divided into four parts National experiences Exhibitions mathematical museums Popularization activities Popularization why and how

Mathematics and Music David Wright, 2009 Many people intuitively sense that there is a connection between mathematics and music If nothing else both involve counting There is of course much more to the association David Wright's book is an investigation of the interrelationships between mathematics and music reviewing the needed background concepts in each subject as they are encountered Along the way readers will augment their understanding of both mathematics and music The text explores the common foundations of the two subjects which are developed side by side Musical and mathematical notions are brought together such as scales and modular arithmetic intervals and logarithms tone and trigonometry and timbre and harmonic analysis When possible discussions of musical and mathematical notions are directly interwoven Occasionally the discourse dwells for a while on one subject and not the other but eventually the connection is established making this an integrative treatment of the two subjects The book is a text for a freshman level college course suitable for musically inclined or mathematically inclined students with the intent of breaking down any apprehension that either group might have for the other subject Exercises are given at the end of each chapter The mathematical prerequisites are a high school level familiarity with algebra trigonometry functions and graphs Musically the student should have had some exposure to musical staves standard clefs and key signatures though all of these are explained in the text *Axiomatics* Alma Steingart, 2023-01-17 The first history of postwar mathematics offering a new interpretation of the rise of abstraction and axiomatics in the twentieth century Why did abstraction dominate American art social science and natural science in the mid twentieth century Why despite opposition did abstraction and theoretical knowledge flourish across a diverse set of intellectual pursuits during the Cold War In recovering the centrality of abstraction across a range of modernist projects in the United States Alma Steingart brings mathematics back into the conversation about midcentury American intellectual thought The expansion of mathematics in the aftermath of World War II she demonstrates was characterized by two opposing tendencies research in pure mathematics became increasingly abstract and rarified while research in applied mathematics and mathematical applications grew in prominence as new fields like operations research and game theory brought mathematical knowledge to bear on more domains of knowledge Both were predicated on the same abstractionist conception of mathematics and were rooted in the same approach modern axiomatics For American mathematicians the humanities and the sciences did not compete with one another but instead were two complementary sides of the same epistemological

commitment Steingart further reveals how this mathematical epistemology influenced the sciences and humanities particularly the postwar social sciences As mathematics changed so did the meaning of mathematization Axiomatics focuses on American mathematicians during a transformative time following a series of controversies among mathematicians about the nature of mathematics as a field of study and as a body of knowledge The ensuing debates offer a window onto the postwar development of mathematics and Cold War epistemology writ large As Steingart's history ably demonstrates mathematics is the social activity in which styles of truth here abstraction become synonymous with ways of knowing

Numbers at Work Rudolf Taschner, 2007-05-31 Drawing primarily from historical examples this book explains the tremendous role that numbers and in particular mathematics play in all aspects of our civilization and culture The lively style and illustrative examples will engage the reader who wants to understand the many ways in which mathematics enables science technology art music pol

Music and Fuzzy Logic Hanns-Werner Heister, 2021-02-21 This book unfolds the manifold complex and intertwined relations between Fuzzy Logic and music in a first comprehensive overview on this topic systematically as an outline as completely as possible in the aspects of Fuzzy Logic in this relation and especially in music as a process with three main phases five anthropological layers and thirteen forms of existence of the art work Classics Jazz Pop Folklore Being concerned with the ontological gnoseological psychological and music aesthetical status and the relative importance of different phenomena of relationship between music and Fuzzy Logic the explication follows the four main principles with five phenotypes of Fuzzy Logic with respect to music similarity sharpening 1 as filtering sharpening 2 as crystallization blurring and variation The book reports on years of author's research on topics that have been only little explored so far in the area of Music and Fuzzy Logic It merges concepts of music analysis with fuzzy logical modes of thinking in a unique way that is expected to attract both specialists of music and specialists of Fuzzy Logic and also non specialists in both fields The book introduces the concept of dialectic between sharpening and conscious blurring In turn some important aspects of this dialectic are discussed placing them in an historical dimension and ending in the postulation of a musical turn in the sciences with some important reflections concerning a Philosophy of Fuzzy Logic Moreover a production oriented thinking is borrowed from fuzzy logic to musicology in this book opening new perspectives in music and possibly also in other artistic fields

Polytempic Polymicrotonal Music Peter Alexander Thøgersen, 2022-09-08 This book introduces polytempic polymicrotonality as a new musical aesthetic It proposes music with more than one microtonal tuning system and discusses examples from the literature to give an historic framework showing that this tendency has been present throughout human musical history Polytempo is a tool for which polymicrotonal structures can function in relief from its background and it acts as a frame or ground structure that is multidimensional akin to the advancement of perspective in Renaissance art The book has historic significance as it is the only book of its category or genre in music that features polymicrotonality in music composition or production It displays examples of music literature for musical precedence in this

area focusing on Charles Ives's *Universe Symphony* unfinished since 1925

Mathematics without Apologies Michael Harris, 2017-05-30 An insightful reflection on the mathematical soul What do pure mathematicians do and why do they do it Looking beyond the conventional answers for the sake of truth beauty and practical applications this book offers an eclectic panorama of the lives and values and hopes and fears of mathematicians in the twenty first century assembling material from a startlingly diverse assortment of scholarly journalistic and pop culture sources Drawing on his personal experiences and obsessions as well as the thoughts and opinions of mathematicians from Archimedes and Omar Khayyam to such contemporary giants as Alexander Grothendieck and Robert Langlands Michael Harris reveals the charisma and romance of mathematics as well as its darker side In this portrait of mathematics as a community united around a set of common intellectual ethical and existential challenges he touches on a wide variety of questions such as Are mathematicians to blame for the 2008 financial crisis How can we talk about the ideas we were born too soon to understand And how should you react if you are asked to explain number theory at a dinner party Disarmingly candid relentlessly intelligent and richly entertaining *Mathematics without Apologies* takes readers on an unapologetic guided tour of the mathematical life from the philosophy and sociology of mathematics to its reflections in film and popular music with detours through the mathematical and mystical traditions of Russia India medieval Islam the Bronx and beyond

Mathematics and Music James S. Walker, Gary W. Don, 2013-04-10 At first glance mathematics and music seem to be from separate worlds one from science one from art But in fact the connections between the two go back thousands of years such as Pythagoras's ideas about how to quantify changes of pitch for musical tones musical intervals *Mathematics and Music Composition Perception and Performance* explores the many links between mathematics and different genres of music deepening students' understanding of music through mathematics In an accessible way the text teaches the basics of reading music and explains how various patterns in music can be described with mathematics The authors extensively use the powerful time frequency method of spectrograms to analyze the sounds created in musical performance Numerous examples of music notation assist students in understanding basic musical scores The text also provides mathematical explanations for musical scales harmony and rhythm and includes a concise introduction to digital audio synthesis Along with helping students master some fundamental mathematics this book gives them a deeper appreciation of music by showing how music is informed by both its mathematical and aesthetic structures

Web Resource On the book's CRC Press web page students can access videos of many of the spectrograms discussed in the text as well as musical scores playable with the free music software MuseScore An online bibliography offers many links to free downloadable articles on math and music The web page also provides links to other websites related to math and music including all the sites mentioned in the book

Artificial Intelligence - Intelligent Art? Robin Markus Auer, Dietmar Elflein, Sebastian Kunas, Jan Röhnert, Christoph Seelinger, Eckart Voigts, 2024-05-06 As algorithmic data processing increasingly pervades everyday life it is also making its way into the worlds of art literature and music In doing so

it shifts notions of creativity and evokes non anthropocentric perspectives on artistic practice This volume brings together contributions from the fields of cultural studies literary studies musicology and sound studies as well as media studies sociology of technology and beyond presenting a truly interdisciplinary state of the art picture of the transformation of creative practice brought about by various forms of AI

From Bricks to Brains Michael Robert William Dawson, Brian Dupuis, Michael Wilson, 2010 Discussing the characteristics that distinguish embodied cognitive science from classical cognitive science the authors place a renewed emphasis on sensing and acting on the importance of physical embodiment and on the exploration of distributed notions of control They also show how synthesizing simple systems and observing their behaviour can generate new theoretical insights Numerous examples are brought forward to illustrate a key theme the importance of environment to an actor Even simple agents such as LEGO robots are capable of exhibiting complex behaviour when they can sense and alter the world around them Book Jacket

Soft Computing in Humanities and Social Sciences Rudolf Seising, Veronica Sanz González, 2011-11-05 The field of Soft Computing in Humanities and Social Sciences is at a turning point The strong distinction between science and humanities has been criticized from many fronts and at the same time an increasing cooperation between the so called hard sciences and soft sciences is taking place in a wide range of scientific projects dealing with very complex and interdisciplinary topics In the last fifteen years the area of Soft Computing has also experienced a gradual rapprochement to disciplines in the Humanities and Social Sciences and also in the field of Medicine Biology and even the Arts a phenomenon that did not occur much in the previous years The collection of this book presents a generous sampling of the new and burgeoning field of Soft Computing in Humanities and Social Sciences bringing together a wide array of authors and subject matters from different disciplines Some of the contributors of the book belong to the scientific and technical areas of Soft Computing while others come from various fields in the humanities and social sciences such as Philosophy History Sociology or Economics Rudolf Seising received a Ph D degree in philosophy of science and a postdoctoral lecture qualification PD in history of science from the Ludwig Maximilians University of Munich He is an Adjoint Researcher at the European Centre for Soft Computing in Mieres Asturias Spain Veronica Sanz earned a Ph D in Philosophy at the University Complutense of Madrid Spain At the moment she is a Postdoctoral Researcher at the Science Technology and Society Center in the University of California at Berkeley Veronica Sanz earned a Ph D in Philosophy at the University Complutense of Madrid Spain At the moment she is a Postdoctoral Researcher at the Science Technology and Society Center in the University of California at Berkeley

ICIAM 07 Rolf Jeltsch, 2009 The International Council for Industrial and Applied Mathematics ICIAM is the worldwide organization of societies which are dedicated primarily or significantly to applied and or industrial mathematics The ICIAM Congresses held every 4 years are run under the auspices of the Council with the aim to advance the applications of mathematics in all parts of the world The Sixth ICIAM Congress was held in Zurich Switzerland July 16 20 2007 and was attended by more than 3000 scientists from 47 countries This

volume collects the invited lectures of this Congress the appreciations of the ICIAM Prize winners achievements and the Euler Lecture celebrating the 300th anniversary of Euler The authors of these papers are leading researchers in their fields rigorously selected by a distinguished international program committee The book presents an overview of contemporary applications of mathematics new perspectives and open problems Topics embrace analysis of and numerical methods for linear and nonlinear partial differential equations multiscale modeling nonlinear problems involving integral operators controllability and observability asymptotic solutions of Hamilton Jacobi equations contact problems in solid mechanics topology optimization of structures dissipation inequalities in systems theory greedy algorithms sampling in function space order value optimization parabolic partial differential equations and deterministic games Moreover particular applications involve risk in financial markets radar imaging brain dynamics and complex geometric optics applied to acoustics and electromagnetics

Creativity Across Domains James C. Kaufman, John Baer, 2005-01-15 This book brings together writers who have studied creative thinkers in different arenas such as the various arts poetry fiction visual art music dance acting sciences psychology mathematics physics engineering computer science and commun

Mind, Body, World Michael R. W. Dawson, 2013 Cognitive science arose in the 1950s when it became apparent that a number of disciplines including psychology computer science linguistics and philosophy were fragmenting Perhaps owing to the field's immediate origins in cybernetics as well as to the foundational assumption that cognition is information processing cognitive science initially seemed more unified than psychology However as a result of differing interpretations of the foundational assumption and dramatically divergent views of the meaning of the term information processing three separate schools emerged classical cognitive science connectionist cognitive science and embodied cognitive science Examples cases and research findings taken from the wide range of phenomena studied by cognitive scientists effectively explain and explore the relationship among the three perspectives Intended to introduce both graduate and senior undergraduate students to the foundations of cognitive science Mind Body World addresses a number of questions currently being asked by those practicing in the field What are the core assumptions of the three different schools What are the relationships between these different sets of core assumptions Is there only one cognitive science or are there many different cognitive sciences Giving the schools equal treatment and displaying a broad and deep understanding of the field Dawson highlights the fundamental tensions and lines of fragmentation that exist among the schools and provides a refreshing and unifying framework for students of cognitive science

Imagine Math 6 Michele Emmer, Marco Abate, 2018-11-06 Imagine mathematics imagine with the help of mathematics imagine new worlds new geometries new forms Imagine building mathematical models that make it possible to manage our world better imagine combining music art poetry literature architecture and cinema with mathematics Imagine the unpredictable and sometimes counterintuitive applications of mathematics in all areas of human endeavour Imagination and mathematics imagination and culture culture and mathematics This sixth volume in the series begins with a homage to

the architect Zaha Hadid who died on March 31st 2016 a few weeks before the opening of a large exhibition of her works in Palazzo Franchetti in Venice where all the Mathematics and Culture conferences have taken place in the last years A large section of the book is dedicated to literature narrative and mathematics including a contribution from Simon Singh It discusses the role of media in mathematics including museums of science journals and movies Mathematics and applications including blood circulation and preventing crimes using earthquakes is also addressed while a section on mathematics and art examines the role of math in design A large selection presents photos of mathematicians and mathematical objects by Vincent Moncorge Discussing all topics in a way that is rigorous but captivating detailed but full of evocations it offers an all embracing look at the world of mathematics and culture

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