

- 1 Use logarithms to solve the equation $e^x = 3^{x-2}$, giving your answer correct to 3 decimal places. [3]

- 2 (i) Use the trapezium rule with 3 intervals to estimate the value of

$$\int_{\frac{1}{2}\pi}^{\frac{3}{2}\pi} \operatorname{cosec} x \, dx,$$

giving your answer correct to 2 decimal places. [3]

- (ii) Using a sketch of the graph of $y = \operatorname{cosec} x$, explain whether the trapezium rule gives an overestimate or an underestimate of the true value of the integral in part (i). [2]

- 3 The polynomial $ax^3 + bx^2 + x + 3$, where a and b are constants, is denoted by $p(x)$. It is given that $(3x + 1)$ is a factor of $p(x)$, and that when $p(x)$ is divided by $(x - 2)$ the remainder is 21. Find the values of a and b . [5]

- 4 The parametric equations of a curve are

$$x = \frac{1}{\cos^3 t}, \quad y = \tan^3 t,$$

where $0 \leq t < \frac{1}{2}\pi$.

- (i) Show that $\frac{dy}{dx} = \sin t$. [4]

- (ii) Hence show that the equation of the tangent to the curve at the point with parameter t is $y = x \sin t - \tan t$. [3]

- 5 Throughout this question the use of a calculator is not permitted.

The complex numbers w and z satisfy the relation

$$w = \frac{z + i}{iz + 2}.$$

- (i) Given that $z = 1 + i$, find w , giving your answer in the form $x + iy$, where x and y are real. [4]

- (ii) Given instead that $w = z$ and the real part of z is negative, find z , giving your answer in the form $x + iy$, where x and y are real. [4]

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Yan Bai



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Proceedings. 24. Workshop Computational Intelligence, Dortmund, 27. - 28. November 2014 Hoffmann, Frank, Huellermeier, E., 2014-11-20 **2024-25 TGT/PGT Economics Solved Papers** YCT Expert Team , 2024 25 TGT PGT Economics Solved Papers **Mathematics and Computation in Music** Tom Collins, David Meredith, Anja Volk, 2015-06-15 This book constitutes the thoroughly refereed proceedings of the 5th International Conference on Mathematics and Computation in Music MCM 2015 held in London UK in June 2015 The 24 full papers and 14 short papers presented were carefully reviewed and selected from 64 submissions The papers feature research that combines mathematics or computation with music theory music analysis composition and performance They are organized in topical sections on notation and representation music generation patterns performance similarity and contrast post tonal music analysis geometric approaches deep learning and scales *George Washington on Screen* Leigh Ehlers Lotte, 2023-07-17 One of the most moving narratives from the American Revolution is the first presidential administration and the many precedents set by George Washington While media historians have extensively analyzed screen portrayals of the more sensational events of America in the 1750s to the 1790s far less attention has been paid to portrayals of the first presidency and the character of George Washington in film television and other formats This book addresses that gap by providing the most comprehensive analysis of the character of George Washington on screen Divided into two parts the book begins with an analysis of how the Washington character has evolved through time and screen media from early silent films to modern multimedia products In Part II a filmography documents each piece of screen media that features a representation of Washington It includes silent films theatrical films cartoons television and screen media from the 21st century such as streaming video games and multimedia presentations Arranged alphabetically each entry includes format type production details crew and cast lists and a brief description of Washington's character in relation to the plot **International Journal of Mathematical Combinatorics, Volume 2, 2014** Linfan Mao, The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences **Simulation and Computational Red Teaming for Problem Solving** Jiangjun Tang, George Leu, Hussein A. Abbass, 2019-10-24 An authoritative guide to computer simulation grounded in a multi disciplinary approach for solving complex problems Simulation and Computational Red Teaming for Problem Solving offers a review of computer simulation that is grounded in a multi disciplinary approach The authors present the theoretical foundations of simulation and modeling paradigms from the perspective of an analyst The book provides the fundamental background information needed for designing and developing consistent and useful simulations In addition to this basic information the authors explore several advanced topics The book s

advanced topics demonstrate how modern artificial intelligence and computational intelligence concepts and techniques can be combined with various simulation paradigms for solving complex and critical problems Authors examine the concept of Computational Red Teaming to reveal how the combined fundamentals and advanced techniques are used successfully for solving and testing complex real world problems This important book Demonstrates how computer simulation and Computational Red Teaming support each other for solving complex problems Describes the main approaches to modeling real world phenomena and embedding these models into computer simulations Explores how a number of advanced artificial intelligence and computational intelligence concepts are used in conjunction with the fundamental aspects of simulation Written for researchers and students in the computational modelling and data analysis fields Simulation and Computational Red Teaming for Problem Solving covers the foundation and the standard elements of the process of building a simulation and explores the simulation topic with a modern research approach

Control Engineering and Information Systems

Zhijing Liu, 2015-01-19 Control Engineering and Information Systems contains the papers presented at the 2014 International Conference on Control Engineering and Information Systems ICCEIS 2014 Yueyang Hunan China 20-22 June 2014 All major aspects of the theory and applications of control engineering and information systems are addressed including Intelligent s

Theoretical Developments and Applications of Non-Integer Order Systems Stefan Domek, Paweł Dworak, 2015-08-20 This volume is devoted to presentation of new results of research on systems of non integer order called also fractional systems Their analysis and practical implementation have been the object of spontaneous development for a few last decades The fractional order models can depict a physical plant better than the classical integer order ones This covers different research fields such as insulator properties visco elastic materials electrodynamic electrothermal electrochemical economic processes modelling etc On the other hand fractional controllers often outperform their integer order counterparts This volume contains new ideas and examples of implementation theoretical and pure practical aspects of using a non integer order calculus It is divided into four parts covering mathematical fundamentals modeling and approximations controllability observability and stability problems and practical applications of fractional control systems The first part expands the base of tools and methods of the mathematical basis for non integer order calculus Part two focuses on new methods and developments in process modeling and fractional derivatives approximations In the third part a bunch of papers which raise problems of controllability observability and stability of non integer order systems is provided Part four is devoted to presentation of different fractional order control applications This book was created thanks to many experts in the field of fractional calculus authors anonymous referees whose comments allowed us to improve the final form of the papers and active and inspiring discussion of the participants of RRNR 2015 the 7th Conference on Non Integer Order Calculus and Its Applications that was organized by the Faculty of Electrical Engineering West Pomeranian University of Technology Szczecin Poland

ICIC 2020 Bedjo Santoso ,Henny Pratiwi Adi ,Heru Sulistyono,Dyana Wijayan,Choiril

Anwar,Ahamad Faosiy Ogunbado,2020-12-14 We are delighted to introduce the proceedings of the 1st INTERNATIONAL CONFERENCE ON ISLAMIC CIVILIZATION ICIC 2020 bringing together researchers academics experts and professionals in examining selected theme on Islamic Perspective of Sustainable Development and The Role of Islamic Economics In Today s Global Finance This event was held on 27 August 2020 virtually by Universitas Islam Sultan Agung in collaboration along with some Islamic universities in Indonesia and overseas The papers published in this proceeding are from multidisciplinary researches related to economy education humanities Islamic studies laws social sciences and health Each contributed paper was refereed before being accepted for publication The single blind peer reviewed was used in the paper selection

Handbook of Research on Applied Learning Theory and Design in Modern Education Railean, Elena,2015-11-09 The field of education is in constant flux as new theories and practices emerge to engage students and improve the learning experience Research advances help to make these improvements happen and are essential to the continued improvement of education The Handbook of Research on Applied Learning Theory and Design in Modern Education provides international perspectives from education professors and researchers cyberneticists psychologists and instructional designers on the processes and mechanisms of the global learning environment Highlighting a compendium of trends strategies methodologies technologies and models of applied learning theory and design this publication is well suited to meet the research and practical needs of academics researchers teachers and graduate students as well as curriculum and instructional design professionals Ubiquitous Computing in the Workplace Katharina Kinder-Kurlanda,Céline Ehrwein Nihan,2015-01-14 This book provides an interdisciplinary collection of views on the ethical challenges and opportunities of workplaces in the Internet of things Current developments within Ubiquitous computing ubicomp systems designed for the workplace are introduced and philosophical organizational and socio ethical considerations of ubicomp in workplaces are provided Suggestions regarding the rules that should be respected in order to favor an adequate implementation of ubicomp in the workplace are offered considering both intra organizational but also wider societal concerns The interdisciplinary collection of contributions invites the reader to engage in the discussion of ubicomp in everyday working environments

Machine Learning and Knowledge Discovery in Databases Michele Berlingerio,Francesco Bonchi,Thomas Gärtner,Neil Hurley,Georgiana Ifrim,2019-01-22 The three volume proceedings LNAI 11051 11053 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2018 held in Dublin Ireland in September 2018 The total of 131 regular papers presented in part I and part II was carefully reviewed and selected from 535 submissions there are 52 papers in the applied data science nectar and demo track The contributions were organized in topical sections named as follows Part I adversarial learning anomaly and outlier detection applications classification clustering and unsupervised learning deep learningensemble methods and evaluation Part II graphs kernel methods learning paradigms matrix and tensor analysis online and active learning pattern and sequence

mining probabilistic models and statistical methods recommender systems and transfer learning Part III ADS data science applications ADS e commerce ADS engineering and design ADS financial and security ADS health ADS sensing and positioning nectar track and demo track **Verification, Model Checking, and Abstract Interpretation** Deepak

D'Souza,Akash Lal,Kim Guldstrand Larsen,2014-12-11 This book constitutes the refereed proceedings of the 16th International Conference on Verification Model Checking and Abstract Interpretation VMCAI 2015 held in Mumbai India in January 2015 The 24 revised full papers presented were carefully reviewed and selected from 53 submissions The papers cover a wide range of topics including program verification model checking abstract interpretation abstract domains program synthesis static analysis deductive methods program certification error diagnosis program transformation and hybrid and cyberphysical systems **The Role and Importance of Mathematics in Innovation** Bob Anderssen,Philip Broadbridge,Yasuhide Fukumoto,Naoyuki Kamiyama,Yoshihiro Mizoguchi,Konrad Polthier,Osamu Saeki,2016-08-09 This book is a collection of papers presented at the Forum Math for Industry 2015 for which the unifying theme was The Role and Importance of Mathematics in Innovation held at the Institute of Mathematics for Industry Kyushu University October 26 30 2015 The theme highlights two key roles that mathematics plays in supporting innovation in science technology and daily life namely needs based and idea based For the former mathematics assists with sorting through the possibilities and putting matters on a more rigorous foundation and for the latter mathematical models of the possible implementations play a key role The book gives excellent examples of how mathematics assists with stimulating innovation and thereby highlights the importance and relevance of the concept Mathematics_FOR_Industry The contents of this volume address productive and successful interaction between industry and mathematicians as well as the cross fertilization and collaboration that result when mathematics is involved with the advancement of science and technology *Lattice Paths and Branched Continued Fractions: An Infinite Sequence of Generalizations of the Stieltjes-Rogers and Thron-Rogers Polynomials, with Coefficientwise Hankel-Total Positivity* Mathias Pétréolle,Alan D. Sokal,Bao-Xuan Zhu,2024-01-19 View the abstract

Modeling Individual Differences in Perceptual Decision Making Joseph W. Hout,Cheng-Ta Yang,James T. Townsend,2017-01-18 To deal with the abundant amount of information in the environment in order to achieve our goals human beings adopt a strategy to accumulate some information and filter out other information to ultimately make decisions Since the development of cognitive science in the 1960s researchers have been interested in understanding how human beings process and accumulate information for decision making Researchers have conducted extensive behavioral studies and applied a wide range of modeling tools to study human behavior in simple detection tasks and two choice decision tasks e g discrimination classification In general researchers often assume that the manner in which information is processed for decision making is invariant across individuals given a particular experimental context Independent variables including speed accuracy instructions stimulus properties i e intensity and characteristics of the participants i e aging cognitive ability

are assumed to affect the parameters in a model i.e speed of information accumulation response bias but not the way that participants process information e.g the order of information processing Given these assumptions much modeling has been accomplished based on the grouped data rather than the individual data However a growing number of studies have demonstrated that there were individual differences in the perceptual decision process In the same task context different groups of the participants may process information in different manners The capacity and architecture of the decision mechanism were found to vary across individuals implying that humans decision strategies can vary depending on the context to maximize their performance In this special issue we focused on a particular subset of cognitive models particularly accumulator models multinomial processing trees and systems factorial technology SFT as applied to perceptual decision making The motivation for the focus on perceptual decision making is threefold Empirical studies of perception have grown out of a history of making a large number of observations for each individual so as to achieve precise estimates of each individual's performance This type of data rather than a small number of observations per individual is most amenable to achieving precision in individual level and group level cognitive modeling Second the interaction between the acquisition of perceptual information and the decisions based on that information to the extent that those processes are distinguishable offers rich data for scientific exploration Finally there is an increasing interest in the practical application of individual variation in perceptual ability whether to inform perceptual training and expertise or to guide personnel decisions Although these practical applications are beyond the scope of this issue we hope that the research presented herein may serve as the foundation for future endeavors in that domain

Rebirth Jennifer Whitmer Taylor, 2025-04-10 Reimagining both the House Museum and Reconstruction memory for the twenty first century In *Rebirth* public historian Jennifer Whitmer Taylor provides a compelling account of how to reenvision the historic house museum Using the Museum of the Reconstruction Era known as the Woodrow Wilson Family Home for most of its many years as a house museum as a case study Taylor explores the challenges and possibilities that face public history practitioners and museum professionals who provide complex interpretations of contested public memory Anchored by oral history interviews with docents who interact directly with the visiting public *Rebirth* considers how a dated and seemingly outmoded venue for interpretation the historic house museum can be reimagined for twenty first century audiences Taylor offers best practices for interpreting issues such as white supremacy and domestic political terrorism for public audiences and she challenges readers to contemplate how historic sites interact with and contribute to vital contemporary political conversations *Rebirth* is a necessary book for public history practitioners students of museum studies and historic site interpretation and those interested in the history and memory of the Reconstruction era

The New Voices of Fantasy Eugene Fisher, Brooke Bolander, Maria Dahvana Headley, Ben Loory, Carmen Maria Machado, Usman T. Malik, Hannu Rajaniemi, Adam Ehrlich Sachs, Sofia Samatar, Kelly Sandoval, A. C. Wise, Alyssa Wong, JY Yang, E. Lily Yu, Sarah Pinsker, Amal El-Mohtar, Max Gladstone, Ursula Vernon, Chris Tarry, 2017-08-08

What would you do if a tornado wanted you to be its Valentine Or if a haunted spacesuit banged on your door When is the ideal time to turn into a tiger Would you post a supernatural portal on Craigslist In these nineteen stories the enfants terribles of fantasy have arrived The New Voices of Fantasy captures some of the fastest rising talents of the last five years including Sofia Samatar Maria Dahvana Headley Max Gladstone Alyssa Wong Usman T Malik Brooke Bolander E Lily Yu Ben Loory Ursula Vernon and more Their tales were hand picked by the legendary Peter S Beagle The Last Unicorn and genre expert Jacob Weisman The Treasury of the Fantastic So go ahead and join the Communist revolution of the honeybees The new kids got your back *The Philosophy of Mathematics Education* Paul Ernest,Ole Skovsmose,Jean Paul van Bendegem,Maria Bicudo,Roger Miarka,Ladislav Kvasz,Regina Moeller,2016-07-15 This survey provides a brief and selective overview of research in the philosophy of mathematics education It asks what makes up the philosophy of mathematics education what it means what questions it asks and answers and what is its overall importance and use It provides overviews of critical mathematics education and the most relevant modern movements in the philosophy of mathematics A case study is provided of an emerging research tradition in one country This is the Hermeneutic strand of research in the philosophy of mathematics education in Brazil This illustrates one orientation towards research inquiry in the philosophy of mathematics education It is part of a broader practice of philosophical archaeology the uncovering of hidden assumptions and buried ideologies within the concepts and methods of research and practice in mathematics education An extensive bibliography is also included **Studies in Intelligence** ,2016

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