

## Welcome to the *Journal of Advanced Mathematics and Applications*

Mathematics is the *abstract science* of numbers, quantity, and space as well as their applications in other disciplines of sciences, engineering, society, and humanities. The modern domain of mathematics includes *pure, applied, denotational, numerical, computational, and cognitive mathematics*. The *key role of mathematics* is a *metamethodology* for rigorous, formal, and symbolic reasoning in order to model and explain the real and abstract worlds and their underpinning mechanisms and rules. The basic methodology of mathematics is *abstraction and symbolic inferences*. The essences of mathematics are to facilitate abstraction, quantification, and induction, to elicit/represent generic abstract objects, to manipulate symbols for efficient reasoning, to establish axiomatic rules as foundations, and to provide derivation rules for deductive inference. Mathematics is also the core form of abstract intelligence that is shared by humans, artificial intelligent systems, cognitive robots, and autonomous agents in almost all scientific, engineering, social, and humanity disciplines.

Denotational mathematics is a category of mathematical structures that deals with complex mathematical objects in the domain of hyperstructures (H), beyond those of real numbers and bits in  $\mathbb{R}$  or  $\mathbb{B}$ , by a series of embedded dynamic functions and processes in order to formalize rigorous expressions and inferences. A wide variety of contemporary denotational mathematics have emerged in the recent decades in order to rigorously deal with complex engineering problems, highly intelligent systems, efficient knowledge representation models, formal computational methodologies, and fuzzy causal inferences. Paradigms of the latest development in denotational mathematics are such as *concept algebra, system algebra, behavior process algebra, inference algebra, semantic algebra, granular algebra, and visual semantic algebra* as collected in the repository of the *International Institute of Cognitive Informatics and Cognitive Computing (IICIC)* at <http://www.ucalgary.ca/iicic/>.

JAMA Vol. 1, No. 2 is a regular issue on the latest advances in pure, applied, denotational, numerical, and computational mathematics as well as their interactions to related disciplines particularly contemporary ones such as intelligence, brain, and knowledge sciences. This issue

includes ten papers from authors of pure, denotational, numerical, and applied mathematics on the following interesting topics:

- (1) Applications of Mathematics for Topological Modeling and Visualization
- (2) Nonlinear Dynamics and Chaos: Applications in Atmospheric Sciences
- (3) On Neuroinformatics: Mathematical Models of Neuroscience and Neurocomputing
- (4) A Perceptual Data Hiding Mathematical Model for Color Image Protection
- (5) The Face Projection Method in Linedar Programming
- (6) A Study on Feature Subset Selection using Rough Set
- (7) Towards a Formal Framework of Cognitive Linguistics
- (8) The Class of Three Dimensional Unsteady Incompressible Magneto-hydrodynamic Boundary Layer Equations of Non-Newtonian Power Law Fluids
- (9) Micropolar Theory of Flexoelectricity
- (10) The Cognitive Complexity of Texts and its Formal Measurement in Cognitive Linguistics

A number of special issues in JAMA will be organized on *key problems of classic mathematics, novel denotational mathematics, cognitive mathematics, computational mathematics, philosophies of mathematics, and their applications*. Submissions to the regular issues of JAMA in general, and to the special issues in particular, are warm welcome for rapid publications of highly original and rigorously reviewed papers in all areas of mathematics and their engineering and industrial applications.

The Editor-in-Chief expects that readers of *Journal of Advanced Mathematics and Applications* (JAMA, <http://www.aspbs.com/jama/>) will benefit from the papers presented in this issue in order to aware the recent advances in pure, applied, denotational, numerical, computational, and cognitive mathematics, as well as their impact and interactions to related fields. The EIC would like to thank the contributing authors, distinguished associate editors, members of the board of editors, and invited reviewers for their great contributions to JAMA 1(2). The EIC would like to acknowledge the publisher of JAMA, Dr. Hari S. Nalwa, with American Scientific Publishers (ASP), USA, and the editorial staff for their excellent professional support.

# Journal Of Advanced Mathematics And Applications

## Impact Factor

**RM Cervero**



## **Journal Of Advanced Mathematics And Applications Impact Factor:**

*Transition to Advanced Mathematics* Danilo R. Diedrichs, Stephen Lovett, 2022-05-22 This unique and contemporary text not only offers an introduction to proofs with a view towards algebra and analysis a standard fare for a transition course but also presents practical skills for upper level mathematics coursework and exposes undergraduate students to the context and culture of contemporary mathematics The authors implement the practice recommended by the Committee on the Undergraduate Program in Mathematics CUPM curriculum guide that a modern mathematics program should include cognitive goals and offer a broad perspective of the discipline Part I offers An introduction to logic and set theory Proof methods as a vehicle leading to topics useful for analysis topology algebra and probability Many illustrated examples often drawing on what students already know that minimize conversation about doing proofs An appendix that provides an annotated rubric with feedback codes for assessing proof writing Part II presents the context and culture aspects of the transition experience including 21st century mathematics including the current mathematical culture vocations and careers History and philosophical issues in mathematics Approaching reading and learning from journal articles and other primary sources Mathematical writing and typesetting in LaTeX Together these Parts provide a complete introduction to modern mathematics both in content and practice Table of Contents Part I Introduction to Proofs Logic and Sets Arguments and Proofs Functions Properties of the Integers Counting and Combinatorial Arguments Relations Part II Culture History Reading and Writing Mathematical Culture Vocation and Careers History and Philosophy of Mathematics Reading and Researching Mathematics Writing and Presenting Mathematics Appendix A Rubric for Assessing Proofs Appendix B Index of Theorems and Definitions from Calculus and Linear Algebra Bibliography Index Biographies Danilo R Diedrichs is an Associate Professor of Mathematics at Wheaton College in Illinois Raised and educated in Switzerland he holds a PhD in applied mathematical and computational sciences from the University of Iowa as well as a master s degree in civil engineering from the Ecole Polytechnique F d rale in Lausanne Switzerland His research interests are in dynamical systems modeling applied to biology ecology and epidemiology Stephen Lovett is a Professor of Mathematics at Wheaton College in Illinois He holds a PhD in representation theory from Northeastern University His other books include Abstract Algebra Structures and Applications 2015 Differential Geometry of Curves and Surfaces with Tom Banchoff 2016 and Differential Geometry of Manifolds 2019 **Telecommunication Journal** ,1988 *Proceedings of 48th World Congress on Advanced Nursing Research 2018* ConferenceSeries, June 14 15 2018 Dublin Ireland Key Topics Nursing Research Scope of Nursing Research Purposes of Nursing Research Nursing Research Challenges and Opportunities Current Trend in Nursing Research Nursing Process Advanced Practice Nurse Role of Advanced Practice Nurse Nursing Theory Nursing Models Qualitative Nursing Research Quantitative Nursing Research Mixed Method Nursing Research Registered Nurse Nurse Practitioners Certified Nurse Midwives Clinical Nurse Specialist Certified Registered Nurse Anesthetists Critical care and Emergency Nursing

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 20 21 2018 Rome Italy Key Topics Automotive Engine Automotive vehicles and design technologies Vehicular Automation and  
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 Biomaterials 2018 ConferenceSeries, March 05 06 2018 Berlin Germany Key Topics Dental Biomaterials Advanced Materials  
 Tissue Engineering and Regenerative Medicine Biomaterials Applications Biomaterials Companies and Market Analysis  
 Polymer Biomaterials Biomaterials and Nanotechnology Properties of Biomaterials 3D printing of Biomaterials Biomaterials  
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 Biophotonics and Biomedical Optics      Proceedings of 25th World Congress on Neurology & Neuroscience 2018

ConferenceSeries, June 18 19 2018 Dublin Ireland Key Topics Neurology Dementia A special Focus Neurosurgery Brain Disorders TBI Neurological disorders Neurodegenerative disorders Pediatric Neurology Cognitive Behavioral Neuroscience Neurobiology of CNS Neuro Oncology Neuroradiology and Imaging Neuroimmunology Neurotoxicology Neural Addiction Neuro psychiatry Neurochemistry Neuropharmaceutics Nursing and Neuroscience Neurocritical Care Novel Therapeutics Neurorehabilitation Clinical Trials and Case Reports      **Proceedings of 6th International Congress on Gynecology & Gynecologic Oncology 2018**

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ConferenceSeries, May 10 11 2018 Frankfurt Germany Key Topics Post Traumatic Stress Disorder Stress and Insomnia Depression Anxiety Disorders Work Stress Autistic Spectrum Disorder Suicide and Prevention Sexual Abuse and Substance Use Disorders Stress Medication and Management Panic Disorder and Trauma Depression Treatment Stress Therapies Stress related Disorders Child and Adolescent Mood Disorders Schizophrenia and Bipolar Disorder Phobia and its treatment Personality disorders Mental Health Rehabilitation Yoga and Holistic Health Psychopharmacology Mindfulness for Mental Wellbeing

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Refractive Suregery Eye Development and Control Mechanisms *Proceedings of 12th World Hematologists Congress 2018*  
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Immunohematology Hematology and oncology Blood Disorders Diagnosis Treatment Hematopathology Pediatric Hematology  
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Key Topics Anatomy and Physiology of Domestic Animals Anatomy and Physiology of Domestic Animals Animal Genetics and  
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Animal Growth and Development Animal Products and Food Safety Animal Health Welfare and the Environment Animal  
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**Proceedings of 7th World Congress on Breast Cancer 2018** ConferenceSeries, May 10 11 2018 Frankfurt Germany Key topics Breast Cancer Present Perspective Screening Detecting and Diagnosing Breast Cancer Breast Cancer Therapy Prevention and Medicine Surgery Choices for Breast Cancer Personalized Medicine A Redefined Treatment Breast Cancer Clinical Trials Rehabilitation Survivorship after Treatment Male Breast Cancer Case Studies Breast Cancer Nursing Industries and Investors Meet Call For Workshops Symposia Breast Cancer Stages Lifestyle and Breast Cancer Alternative and Complementary Medicine Controversies Related to Breast Cancer Breast Cancer and Pregnancy Current and Future State Immunology and Breast Cancer

The book delves into Journal Of Advanced Mathematics And Applications Impact Factor. Journal Of Advanced Mathematics And Applications Impact Factor is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Journal Of Advanced Mathematics And Applications Impact Factor, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 4: Journal Of Advanced Mathematics And Applications Impact Factor in Specific Contexts
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rectangular blocks that form walls with no gaps. Place the robot goal outside and the robot inside, or vice versa, and run the ... Probabilistic Robotics by EK Filter — □ Optimal solution for linear models and. Gaussian distributions. Page 4. 4. Kalman Filter Distribution. □ Everything is Gaussian. 1D. 3D. Courtesy: K. Arras ... Probabilistic Robotics - Sebastian Thrun.pdf We shall revisit this discussion at numerous places, where we investigate the strengths and weaknesses of specific probabilistic solutions. 1.4. Road Map ...