

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
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- (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.

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Impact Factor

Ying Liu



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