

INFORMATION ON THE NEW “FCAA” STATUS

The “**FCAA**” journal, abbreviated “**Fract. Calc. Appl. Anal.**”, is an international mathematical journal specialized in Fractional Calculus (theory of integration and differentiation of arbitrary non-integer order), Special Functions and Integral Transforms as close areas of Mathematical Analysis (Calculus), their applications and generalizations.

A peer-reviewed journal with high standards guaranteed by its Editorial Board’s list and carefully selected external referees. The journal aims to be the most prestigious and suitable forum for high quality original publications on the FCAA topics, and announces on recent and forthcoming books and events in the area. Many outstanding authors in the fields of pure and applied mathematics, physics, control theory, etc. contributed to the 13 years’ success of FCAA. The Contents of Back Volumes (Vol.1, 1998 - Vol.13, 2010) and their stuff are available at the previously existing FCAA websites.

Established in 1998, Founding Publisher (Vol. 1 - Vol. 13):
Institute of Mathematics and Informatics - Bulgarian Academy of Sciences

Co-published since 2011, Vol. 14, by:
Versita, Warsaw and Springer-Verlag, Wien

Printed by Versita, **distributed** by Springer-Verlag (ISSN 1311-0454)
Electronic form available at SpringerLink (ISSN 1314-2224)
OnlineFirst service: accepted papers in final proof-read form

Abstracted / Indexed in:
Mathematical Reviews; MathSciNet; Zentralblatt Math.; British Library Direct; Electronic Journals Library - University Library of Regensburg; OATAO (Open Archive Toulouse Archive Ouverte); Google Scholar, etc.

New FCAA Websites, since 2011:
<http://versita.com/fcaa> , <http://www.springer.com/journal/13540>
SpringerLink: <http://www.springerlink.com/content/1311-0454>

Back Volumes (Vol. 1 to Vol. 13) – Available online at the Old Websites:
<http://www.math.bas.bg/~fcaa> , <http://www.diogenes.bg/fcaa>

Published with the kind assistance and cooperation of:
Institute of Mathematics and Informatics - Bulgarian Academy of Sciences

To Order: Contact Springer’s agents (for printed and electronic copies)

To Submit: Electronically to Managing Editor, virginia@diogenes.bg
Follow strictly Instructions to Authors, use Authors’ Kit
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Co-publishers: Versita, Warsaw and Springer-Verlag, Wien

Distributor: Springer-Verlag, Journal No. 13540

AIMS AND SCOPE

The primary topics of FCAA are:

- Fractional Calculus
- Special Functions and Integral Transforms, related to Fractional Calculus
- Fractional Order Differential and Integral Equations and Systems
- Mathematical Models of Phenomena, described by the above topics

Secondary topics of FCAA as Related Areas of Applied Analysis:

- Algebraic Analysis, Operational and Convolutional Calculi
- Generalized Functions, Harmonic Analysis
- Series, Orthogonal Polynomials, Special Functions of Mathematical Physics
- Numerical and Approximation Methods, Computational Procedures and Algorithms, related to the Primary FCAA topics
- Fractional Stochastic Processes
- Fractal and Integral Geometry

Applications of these techniques to:

- Differential and Integral Equations
- Problems of Mathematical Physics
- Control Theory, Mechanics, Probability and Statistics, Finances, Engineering, Biomedicine, etc.

Other contributions:

- If revealing connections between Fractional Calculus and the above-mentioned topics to model problems of the real physical and social world

Suggested MSC 2010 entries:

- 26A33; 33E12, 34A08, 34K37, 35R11, 60G22 (primary)
- 30C45, 30E15, 31B15, 33C60, 33E30, 34A25, 42A45, 42C10, 44A20, 44A35, 44A40, 45E10, 93B60, 93D09, 05C72, etc.

Sections:

- Research Papers
- Invited Surveys
- Archives (renewal publication of old or hardly accessible of significant interest for the journal's audience)
- Reviews on Books, Proceedings, etc.
- Announcements for New Books, Recent and Forthcoming Meetings, Anniversaries and other events related to FCAA
- Short Letters, Discussion Table, Open Problems

Please, note the CHANGES OF THE STATUS of the “FCAA” journal, since 2011 (previous page)!