



EDITORIAL

FCAA RELATED NEWS, EVENTS AND BOOKS (FCAA-VOLUME 18-2-2015)

Virginia Kiryakova

Dear readers,

in the Editorial Notes we announce news for our journal, anniversaries, information on international meetings, events, new books, etc. related to the FCAA ("Fractional Calculus and Applied Analysis") areas.

This is a Special Issue with Selected Papers from the ICFDA 2014:

International Conference "Fractional Differentiation and its Applications 2014", 23–25 June 2014, University of Catania, Italy

1. News for the FCAA Journal

The journal has already totally updated new website, at addresses

 $\begin{array}{l} \text{http://www.degruyter.com/view/j/fca} \\ = \text{http://www.degruyter.com/fcaa} \end{array}$

Please, visit the menus: Overview; Submission of Manuscripts; Abstracting and Indexing; Editorial Information; and Supplementary Information (files with: Guidelines for Reviewers; FCAA Review Form; FCAA Past Tables of Contents 1998–2014; FCAA Transfer of Copyright Agreement; FCAA Instructions for Authors; FCAA Author's Kit).

Along with all these details for FCAA, the readers can find the recently published articles in their online version at the new menu READ CONTENT.

Besides, the articles published in Vols. 14–17 (2011–2014) are available online at *SpringerLink*, http://link.springer.com/journal/13540.

Regularly updated details on the journal as well as contents of all issues, some back volumes (available for free) and the abstracts of the current issues can be found also at *Editor's website*:

http://www.math.bas.bg/~fcaa = http://www.diogenes.bg/fcaa.

FCAA is indexed by Web of Knowledge of Thomson Reuters and Scopus of Elsevier since 2011, and has there the following indices:

Journal Impact Factor: 2.974, SCImago Journal Rank (SJR): 2.106.

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pp. 285–289, DOI: 10.1515/fca-2015-0019

2. Calendar of Events Related to FC

41th International Conference "Applications of Mathematics in Engineering and Economics" (AMEE2015)

June 8–13, 2015, Sozopol, Bulgaria

Website: http://oldweb.tu-sofia.bg/eng_new/fpmi/amee15/

The main goal of this series of conferences is to bring together experts and young talented scientists from Bulgaria and from abroad to discuss the modern trends and to ensure exchange of views in various applications of mathematics in engineering, physics, economics, biology, etc. The peer-reviewed proceedings of previous AMEE '11,12,13,14 were published in American Institute of Physics Conference Proceedings (last one as Vol. #1631, 2014), indexed in Scopus with SJR = 0.163. The Program Committee stimulates organizing special sessions as well as discussions concerning the development and use of software innovations in the scientific computing and the student training in this area.

I use this occasion to attract your attention to this conference in Bulgaria, at a very good place - Black Sea resort (this time is one of the best to enjoy) and ancient city combining Byzantine buildings dated from the 10th to the 14th century with unique old Bulgarian architecture and tasty national cuisine. The (small) town of Sozopol is in the top 3 of the most desirable tourist destinations on the planet. The seaside city was nominated by the World Council for Tourism destination of 2015 and defeated 158 entries from across the World in the category, selected as one of three finalists and competing with Slovenian capital Ljubljana and North-east coast of Taiwan. The "Southern Fortress Wall and Tower" is one of the favorite places for walk and pictures for the guests of Sozopol, together with other arheologic findings, vampires' remainings, and the sunny beaches. The nearest airport is Burgas (Sarafovo) BOJ, while there are frequent buses Sofia-Sozopol and back. More, at http://en.wikipedia.org/wiki/Sozopol.

We can possibly organize some mini-session, related to FCAA topics. At earlier AMEE there happened special sessions on integral transforms and special functions, partial differential equations and applications, applied analysis. The interested participants are pleased to contact me, so we can plan it by April. Then, important deadlines are: Abstract submission: April 30; Registration Form: 30 April; Hotel reservation: 15 May; Submission of full manuscript to AIP Conf. Proc.: 15 July; Publication: by end 2015.

Details on previous jubilee 40th edition of AMEEE can be found at http://oldweb.tu-sofia.bg/eng_new/fpmi/amee14/index.php.

Member of International Program Committee,

Virginia Kiryakova, virginia@diogenes.bg (subject AMEE2015)

The 2015 AMMCS-CAIMS Congress with Minisymposium "Fractional Calculus and Probability" June 7–12, 2015, Waterloo, ON, Canada Website:

http://www.ammcs-caims2015.wlu.ca/special-sessions/fcp/

The Congress http://www.ammcs-caims2015.wlu.ca/ will take place at Wilfrid Laurier University, and in its frames we are organizing a special session on Fractional Calculus and Probability. In recent years, the relationship between time-modified Lévy processes and related non-local operators has been investigated in depth. Interestingly, these processes turn out to be useful in modelling many systems in physics, geophysics and biology and even in the social sciences. In this special session, recent mathematical results will be presented with an emphasis on applications.

We invite potentially interested colleagues to participate in our session. Please note the ID code assigned to your presentation (identical to the ID code of your accepted abstract). It is required for submitting your paper for the AMMCS-CAIMS2015 Proceedings. Submission is not mandatory. All submitted papers will be refereed and only accepted papers will be published in the AMMCS-CAIMS2015 Proceedings.

If you intend to submit your paper, please go to AMMCS-CAIMS2015 Proceedings Page. Follow exactly the Author Instructions accessible from that page.

Organizers of the Minisymposium (ID:SS-FCP):
József Lörinczi (Loughborough University), J.Lorinczi@lboro.ac.uk
Mark M. Meerschaert (Michigan State University), mcubed@stt.msu.edu
Enrico Scalas (University of Sussex), enrico.scalas@gmail.com

International Conference on Fractional Differentiation and its Applications (ICDFDA '16) July 18–20, 2016, Novi Sad, Serbia

The next edition of the traditional meetings FDA (Fractional Differentiation and its Applications), see history e.g. at FDA 2014 (Catania, Italy, June 2014) website http://www.icfda14.dieei.unict.it/, the link

http://www.icfda14.dieei.unict.it/previous.html,

will take place in the *University of Novi Sad, Faculty of Technical Sciences*, from Monday July 18 to Wednesday July 20, 2016.

The scientific group in the University of Novi Sad on several topics of analysis (52 years' Mathematical Analysis Seminar), generalized functions and operational calculus (several international conferences), partial

differential equations and microlocal analysis, fractional calculus and applications in mechanics, and other FDA related topics, has long-term well established traditions, its results and publications enjoy World recognition.

Novi Sad is the second-largest city in Serbia and administrative centre of Vojvodina, one of the most important economic and cultural centres in Serbia (named in 19th century as the Serbian Athens). It hosts a branch of Serbian Academy of Sciences and Arts, the Vojvodina Academy of Sciences and Arts, two universities and numerous professional, technical, and private colleges and research institutes. The largest educational institution in the city is the University of Novi Sad, see http://www.uns.ac.rs/en/, and http://en.wikipedia.org/wiki/University_of_Novi_Sad.

The town is situated on the banks of the Danube river, facing the northern slopes of Fruška Gora mountain. It is famous with the 17th century's Petrovaradin fortress (a Habsburg strategic military post), the neoclassical 18th-19th centuries' architecture of the city centre, the Roman Catholic parish church on the name of Virgin Mary (Cathedral), City Hall, Serbian National Theatre, Spens Sports (and business) Center, and many other cultural and historical places.

For more information and website of FDA '16, please follow the next FCAA editorial notes.

On behalf of local Organizers, Teodor Atanackovič, atanackovic@uns.ac.rs Dragan Spasič, spasic@uns.ac.rs

3. New Books

A triology on Fractional Calculus of Variations is now available:

Agnieszka B. Malinowska, Delfim F.M. Torres, Introduction to the Fractional Calculus of Variations. World Scientific, Dec. 2012, 292 pp., ISBN 978-1-84816-966-1.

Details at:

http://www.worldscientific.com/worldscibooks/10.1142/p871

Contents:

The Classical Calculus of Variations
Fractional Calculus of Variations via RiemannLiouville Operators
Fractional Calculus of Variations via Caputo Operators
Other Approaches to the Fractional Calculus of Variations
Towards a Combined Fractional Mechanics and Quantization

Ricardo Almeida, Shakoor Pooseh, Delfim F.M. Torres, Computational Methods in the Fractional Calculus of Variations.

World Scientific, May 2015, 300 pp., ISBN 978-1-78326-640-1.

Details at:

http://www.worldscientific.com/worldscibooks/10.1142/p991

Contents:

The Calculus of Variations and Optimal Control

Fractional Calculus

Fractional Variational Problems

Numerical Methods for Fractional Variational Problems

Approximating Fractional Derivatives

Approximating Fractional Integrals

Direct Methods

Indirect Methods

Fractional Optimal Control with Free End-Points

An Expansion Formula for Fractional Operators of Variable Order

Discrete-Time Fractional Calculus Of Variations

Matlab Code

Agnieszka B Malinowska, Tatiana Odzijewicz, Delfim FM Torres, Advanced Methods in the Fractional Calculus of Variations.

Ser. SpringerBriefs in applied Sci. and Techn., Springer, 2015, 135 pp., ISBN 978-3-319-14756-7.

Details at:

http://www.springer.com/mathematics/book/978-3-319-14755-0

Contents:

Introduction

Fractional Calculus

Fractional Calculus of Variations

Standard Methods in Fractional Variational Calculus

Direct Methods in Fractional Calculus of Variations

Application to the Sturm-Liouville Problem

Conclusion, Appendix A: Two Convergence Lemmas

Readership (for the 3 volumes): Advanced undergraduate, graduate students and researchers in mathematics, physics and applied sciences. There the readers can download from above links the Tables of Contents and Sample Chapters.

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