



EDITORIAL

FCAA RELATED NEWS, EVENTS AND BOOKS (FCAA-VOLUME 24-4-2021)

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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.

All these Notes are published online with free open access.

1. New Books

Luisa Beghin, Francesco Mainardi, Roberto Grarrappa (Eds.), *Nonlocal and Fractional Operators*. Part of SEMA SIMAI Springer book series: Vol. 26. Springer, Cham, 2021, 308 pp.+ XII, ISBN: 978-3-030-69235-3 (Hardcover), ISBN: 978-3-030-69236-0 (eBook); DOI https://doi.org/10.1007/978-3-030-69236-0.

Details: https://link.springer.com/book/10.1007/978-3-030-69236-0

The purpose of this volume is to explore new bridges between different research areas involved in the theory and applications of the fractional calculus. In particular, it collects scientific and original contributions to the development of the theory of nonlocal and fractional operators. Special attention is given to the applications in mathematical physics, as well as in probability. Numerical methods aimed to the solution of problems with fractional differential equations are also treated in the book.

The contributions have been presented during the International Workshop "Nonlocal and Fractional Operators", held in Sapienza University of Rome, in April 2019, and dedicated to the retirement of Prof. Renato Spigler (University Roma Tre). Therefore we also wish to dedicate this volume to this occasion, in order to celebrate his scientific contributions in the field of numerical analysis and fractional calculus. Detailed announce on the event (Committee, Invited Speakers, etc.) has been published in Editorial Note of FCAA, Vol. 22, No 1 (2019), at https://www.degruyter.com/document/doi/10.1515/fca-2019-0001/html.

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The book is suitable for mathematicians, physicists and applied scientists interested in the various aspects of fractional calculus.

Keywords: Fractional Calculus; Nonlocal Operators; Integro-differential Equations; Special Functions; Lèvy processes and subordinators

Contents:

- Front Matter, Pages i-xii;
- On the Transient Behaviour of Fractional $M/M/\infty$ Queues. By: Giacomo Ascione, Nikolai Leonenko, Enrica Pirozzi, Pages 1–22;
- Sinc Methods for Lèvy–Schrödinger Equations. By: Gerd Baumann, Pages 23–56;
- Stochastic Properties of Colliding Hard Spheres in a Non-equilibrium Thermal Bath. By: Armando Bazzani, Silvia Vitali, Carlo E. Montanari, Matteo Monti, Sandro Rambaldi, Gastone Castellani, Pages 57–70;
- Electromagnetic Waves in Non-local Dielectric Media: Derivation of a Fractional Differential Equation Describing the Wave Dynamics. By: Alessandro Cardinali, Pages 71–82;
- Some New Exact Results for Non-linear Space-Fractional Diffusivity
 Equations. By: Arrigo Caserta, Roberto Garra, Ettore Salusti, Pages 83– 100:
- A Note on Hermite-Bernoulli Polynomials. By: Clemente Cesarano, Alexandra Parmentier, Pages 101–119;
- A Fractional Hawkes Process. By: J. Chen, A. G. Hawkes, E. Scalas, Pages 121–131;
- Fractional Diffusive Waves in the Cauchy and Signalling Problems.
 By: Armando Consiglio, Francesco Mainardi, Pages 133–153;
- Some Extension Results for Nonlocal Operators and Applications.
 By: Fausto Ferrari, Pages 155–187;
- The Pearcey Equation: From the Salpeter Relativistic Equation to Quasiparticles. By: A. Lattanzi, Pages 189–204;
- Recent Developments on Fractional Point Processes. By: Aditya Maheshwari, Reetendra Singh, Pages 205–222;
- Some Results on Generalized Accelerated Motions Driven by the Telegraph Process. By: Alessandra Meoli, Pages 223–237;
- The PDD Method for Solving Linear, Nonlinear, and Fractional PDEs
 Problems. By: Ángel Rodriguez-Rozas, Juan A. Acebrón, Renato Spigler,
 Pages 239–273;
- Fractional Diffusion and Medium Heterogeneity: The Case of the Continuous Time Random Walk. By: Vittoria Sposini, Silvia Vitali, Paolo Paradisi, Gianni Pagnini, Pages 275–286;

- On Time Fractional Derivatives in Fractional Sobolev Spaces and Applications to Fractional Ordinary Differential Equations. By: Masahiro Yamamoto, Pages 287–308.

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