



EDITORIAL

FCAA RELATED NEWS, EVENTS AND BOOKS (FCAA–VOLUME 24–6–2021)

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Dear readers,

in the Editorial Notes we have announced some 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 have been published online with free open access.

1. Change of Publisher for FCAA Journal

Our journal was founded in 1998 and published during 1998–2010 by the Institute of Mathematics and Informatics – Bulgarian Academy of Sciences, Sofia, with the valuable support of its Founding Editors, among them – the pioneers of the contemporary fractional calculus (in the lists of Honorary Founding Editors and Honorary Editors). We acknowledge the continued support and cooperation of the Institute of Mathematics and Informatics - Bulgarian Academy of Sciences.

In the period 2011–2014 (Vol. 14–Vol. 17) the FCAA journal was co-published by Versita (now: De Gruyter Open), Warsaw and Springer-Verlag, Wien, as the first Bulgarian scientific journal in their joint publishing program for East Europe. A wide popularity was achieved by its publications, then at SpringerLink, <http://link.springer.com/journal/13540>. The journal received its first impact factor and impact rang with a leading position as 3th/5th places in the rank lists in category Mathematics.

Since Vol. 18 (2015) to Vol. 24 (2021), the publisher and distributor of FCAA has been Walter de Gruyter GmbH, Berlin/Boston, with the current journal website as <https://www.degruyter.com/journal/key/fca/html>. We like to express our thanks for all continuous support and cares by De Gruyter officials and officers, and also from Sciendo as their brand for publishing services, to maintain our journal in the highest possible standards.

Since January 2022, Vol. 25 (2022), the FCAA journal will go under publication by Springer Nature (Switzerland AG), at webpage (under update and reconstruction) <http://link.springer.com/journal/13540>. All submissions to FCAA since 2022 should be by Editorial Manager system, in process of installation. Please, follow next announces for more details.

2. In Memoriam: Professor José António Tenreiro MACHADO, Associate Editor in FCAA Journal

If words could depict the true depth of a person's soul, this obituary might never end in attempting to remotely reach the level of achievements in Professor José António Tenreiro Machado's work, and personal life. Despite the success he made, he kept true to himself, an honest man of good virtue, kindness and a friendship of a lifetime is what one gained from such a wonderful person. Machado could strike a camaraderie with anyone, making one feel understood and connected to in more ways than one. He was beloved by many, acknowledged worldwide and seen as a man of not only good faith, but a good heart, whose loss will surely be felt for as long as we may live.



J. A. Tenreiro Machado
May his soul rest in peace

Professor José António Tenreiro Machado passed away unexpectedly on 6 October 2021, the exact day of his 64th birthday. Professor Machado was born in Pinhel, a small town in the north interior of Portugal. His childhood was somewhat troubled due to family issues, having found shelter within his maternal grandparents. At high school and university, he was always an excellent student. This was soon recognized by his colleagues, to whom Professor Machado gave private lessons, receiving some income to pay his studies. At those times, he had chess as a hobby and won many trophies. He concluded the Electrical Engineering degree at the Faculty of Engineering of the University of Porto (FEUP) and received the Eng. Cristiano P. Spratley award. Professor Machado got married on 12 December 1982, and had two sons. He was very intelligent, creative and had a very sharp critical spirit.

Professor Machado started his academic career in 1980 as a Lecturer at the Department of Electrical Engineering (DEEC) of FEUP, and his professional activity at industry in 1983 as a fluid-power hydraulics and electronics engineer. From 1985 to 1988, he was responsible for the creation of a new engineering college at the Polytechnic Institute of Viseu, but he kept the link to the DEEC-FEUP. In 1989 he concluded his PhD with a thesis entitled “*Structural Resource Management in the Control of Robot Manipulators*” and, in 1995, his Habilitation with the overview lesson “*Computational Problems in Robot Control*”, both at the University of Porto. In 1998, Professor Machado moved to the Institute of Engineering of the Polytechnic Institute of Porto (ISEP-IPP), being Coordinator Professor of the DEEC-ISEP until 2016. In 2016 he achieved the position of Principal Coordinator Professor, becoming Dean of both ISEP and IPP.

Throughout his academic career, Professor Machado was the head of several first cycle and second cycle degrees of studies on Automation and Control, Electrical and Computer Engineering, and Management. He was also Head of DEEC-ISEP, President of the Scientific Committee of ISEP, Member of the General Council of IPP, and Scientific Coordinator of the Interdisciplinary Studies Research Center at IPP. He supervised 16 PhD students and participated in several PhD examination committees in Portugal, Spain, Brazil, Belgium, France, Poland, Finland, and Czech Republic. Professor Machado was a wonderful communicator and excellent teacher, very appreciated by his students. He taught courses in several Portuguese and foreign universities. He was supervisor and lecturer at the Doctoral School of Applied Informatics, Óbuda University, Hungary, visiting professor at the Institute of Applied Computer Science, Lodz University of Technology, Poland, and received the Appointment Certificate “Guest Outstanding Professor at Sichuan University of Science and Engineering”, granted by the university President Tuo Xiang-guo, Zigong, Sichuan, China.

His research interests spanned many scientific areas, including electrical machine control, electronics and fluid-power hydraulics, robotics (position and force control, legged locomotion, computational mathematics, biomechanics and education), nonlinear dynamics, complex systems, fractional order systems, time-series analysis, genetic algorithms, evolutionary computing, intelligent transportation systems, analysis of mechanical systems with friction and backlash, electromagnetism, bioinformatics, genomics, computational cybernetics, financial and economic dynamics, and arts.

Professor Machado authored over 1160 publications, including 11 books, 575 journal papers, and 118 book chapters. He delivered 382 presentations

and 60 plenary lectures at national and international meetings and conferences. He taught 74 courses in national and international universities, edited 22 books, was advisory editor of 3 book series and editor in chief of 1 book series. He was the scientific director of the journal “*Robotics and Automation*” (in Portuguese), guest-editor of 55 special issues in journals, member of the editorial board or associate editor in several scientific journals, and Editor-in-Chief of 3 scientific journals. He is a Highly Cited Researcher in the category Cross-Field of Clarivate Analytics. His influence on the scientific community is truly deep and overarching, with remarkable scientific achievements.

His most prolific scientific production is in the area of Fractional Calculus (FC). His first paper on the subject [1] dates back to 1997. From then on, he worked and published several papers on FC, of which 51 as a single author. In 2019, he edited a multi-volume book series entitled Handbook of Fractional Calculus with Applications with a total of 8 volumes, [2]. Among his scientific production, we can find works magnificent for their insight and elegance, [3]-[7].

Professor Machado’s contributions to the FC community, as author, editor, one of the most successful and energetic promotor of FC and organizer of events and round table discussions on the topic, can hardly be listed in short. Among these activities, let us mention his hostage and organization of the 2nd International Conference “*Fractional Differentiation and Applications, Porto 2006*” (now regular biannual conferences ICFDA), and his role as member of Editorial Board and recently, as *Associate Editor in FCAA journal*. His last paper in FCAA journal, that can serve as a tutorial in education on FC, appeared just recently, [8].

Our community owes to Prof. Machado, along with his scientific results and many surveys on history and science metrics in FC, some very popular posters, such as “A poster about the old history of Fractional Calculus”, “A poster about the recent history of Fractional Calculus” (2010), “Fractional Calculus – Models, Algorithms, Technology” (2015), etc. Tenreiro had very wide interests, including the hobby to illustrate science and FC in his specific artistic ways, hinted at from famous movies, novels, evergreens, paintings,... such as “Mission: Impossible” (television and film series), “Alice’s Adventures in Wonderland” (L. Carroll), “Rhapsody in Blue” (G. Gershwin), “What a wonderful world” (L. Armstrong), “D’où venons-nous? Que sommes-nous? Où allons-nous?” (P. Gauguin), “The persistence of memory” (S. Dali), or “Quo Vadimus?”. Those were the inspiration for many of his papers, titles and notes for round table discussions, published in FCAA, among which: “Suggestion from the past?”, “And I say to myself:

‘What a fractional world!’ ”, “Rhapsody in fractional”, “Fractional calculus: Quo vadimus? (Where are we going?)”, “Fractional calculus: D’où venons-nous? Que sommes-nous? Où allons-nous?”, “Fractional calculus’s adventures in wonderland”, etc.

The departure of Professor Machado leaves a void in the lives of all who had the privilege of working with him assiduously. At the moment we are writing this short text, two more papers were accepted having our colleague and friend as coauthor. A few more are still under review. We lost the never tired and ever fighting *Don Quixote of the FC*, its great promoter and so active researcher. Till his last breath he was initiating papers, books, events and special issues, serving many journals, chairing a conference session, full of energy and life!

Our FC community suffered a great loss. On behalf of FCAA editors, his local and all over the World collaborators and friends, participants in ICFDA conferences and all who knew Prof. J. A. T. Machado, we express our condolences to his family and colleagues.

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