



Editorial letter: Dedicated to the 55th anniversary of Professor Vladislav V. Kravchenko

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Professor Vladislav V. Kravchenko, a Senior Researcher in the research mathematical center Cinvestav (Center for Research and Advanced Study, Mexico) celebrated his 55th anniversary on February 15, 2023.

Vladislav Kravchenko was born on February 15, 1968, in the family of well-known mathematician, Professor Viktor Kravchenko (USSR/Ukraine/Portugal). He graduated from Odessa State University (Ukraine) and defended his Ph.D. in Rostov State University in 1994 (now it is Southern Federal University, Rostov-on-Don, Russia). Since 1994 he is working in Mexico being also active in short-time and long-time research visits in many international institutions delivering lectures, developing research, and supervising research activities.

His research interests are wide: mathematical analysis, differential equations, mathematical physics, wave propagation in complex media, inverse spectral problems and scattering problems.

His recent breakthrough research achievements are related to methods of solution of direct and inverse spectral problems which led to new representations for solutions of linear ordinary differential equations with variable coefficients, to new representations for associated transformation operators, and eventually to simple, direct and most effective computational algorithms for solving direct and inverse spectral and scattering problems on finite and infinite intervals for regular and singular Sturm–Liouville equations. The problems which have always been considered as computationally challenging suddenly became quite simple and treatable within the unified approach developed by Vladislav Kravchenko.

Prof. Kravchenko is also an internationally recognized specialist in such fields as complex and hypercomplex analysis and its applications in mathematical physics (electrodynamics, quantum mechanics, etc.), boundary and spectral problems for partial differential equations.

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Some highlights. Author of five monographs and more than one hundred research articles in top ranking international journals. Awards: ISAAC Prize—International Prize of the International Society for Analysis, Applications and Computing, Berlin (Germany), 2001; prize for the best studies of the National Polytechnic Institute, Mexico in 1998 and 2005; prize for the best supervisor in the field of postgraduate education at the National Polytechnic Institute in Mexico in 2001 and 2004. Member of the editorial board of international journals: Journal of Mathematical Sciences, Mathematical Methods in the Applied Sciences, Journal of Fourier Analysis and Applications, Advances in Applied Clifford Algebras, Journal of Applied and Industrial Mathematics, and editor-in-chief of the Boletín de la Sociedad Matemática Mexicana. Member of program committees and organizer of various international conferences and events, plenary and invited speaker at established international forums.

For me personally, Vladislav Kravchenko is a friend and a very reliable colleague. He has been and he is deeply involved in many of the great initiatives we started together, including being among the organizers of the Series A (direct submission) in the Journal of Mathematical Sciences from the very beginning. In 2018, together with Vladislav Kravchenko, we organized the Scientific and Educational Mathematical Center of the Southern Federal University, and Vladislav Kravchenko was the scientific director of this center in the period 2018–2022. He had a significant impact on the development of the Center, along with him, many of his students participated in postdoc programs and short-term research visits. Together we organize conferences and special sections in conferences, actively develop the thematic section in the journal JFAA and have a very successful experience in publishing special issues and thematic collections. A most recent project of ours was the book “Methods of Mathematical Physics: Classical and Modern” published by the Springer Nature in November 2022, <https://link.springer.com/book/10.1007/978-3-031-17845-0>. I am very happy and very proud of our friendship and our cooperation.

Vladislav Kravchenko, together with his wife Kira Khmel'nitskaya, raised a son and a daughter.
Wishing to Professor Vladislav Kravchenko further creative success in all endeavors,

Alexey Karapetyants
Editor-in-Chief Journal of Mathematical Sciences, Series A.