Vladimir Mikhailets

Work: Laboratory of partial differential equations,

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PERSONAL

Born on February 14, 1950. Ukraine Citizen

EDUCATION

1994	Professor	Kiev Military Aviation Engineering Academy
1990	Dr. Hab. (Math.)	Institute of Mathematics, NAS of Ukraine
		Thesis: Spectral problems with general boundary conditions
1976	Ph. D. (Math.)	Institute of Mathematics, NAS of Ukraine
		Thesis: Spectral theory of boundary value problems for Sturm-
		Liouville equation with operator coefficients
		Supervisor: Prof. M. L. Horbachuk
1972	Diploma with	-
	honours (Math.)	Kyiv State Taras Shevchenko University

EMPLOYMENT

since 2019	Head of Lab.	Institute of Mathematics, NAS of Ukraine
since 2013	Professor	National Technical University of Ukraine "Kyiv Polytechnic
		Institute"
2003 - 2015	Professor	Taras Shevchenko National University of Kyiv
1994 - 1998	Professor	Warsaw University in Białystok, Poland
1991 - 2019	Leading researcher	Institute of Mathematics, NAS of Ukraine
1983 - 1991	Senior researcher	Institute of Mathematics, NAS of Ukraine
1975 - 1983	Junior researcher	Institute of Mathematics, NAS of Ukraine

AWARDS AND GRANTS

- M. M. Bogolyubov Prize of the NAS of Ukraine for outstanding scientific works in the field of mathematics and theoretical physics, 2020
- Distinction of the NAS of Ukraine "For training new generations of scientists", 2020
- Grant of SFFR and DFG (Germany) F81/41686 "Partial differential equations in generalized Sobolev spaces", 2019
- M. G. Krein Prize of the NAS of Ukraine for outstanding scientific works in the field of functional analysis and theory of functions, 2017
- Participated in Grant of NAS of Ukraine and Siberian Branch of Russian Academy of Sciences

- "Inverse Problems of Modern Mathematical Physics", 2013 2014
- Participated in Grant of NAS of Ukraine and Russian Foundation for Basic Research 01-01-12
 "Modern theory of evolution problems: fractional equations, integrated semigroups, numerical analysis, spectral theory", 2012 2013
- Bogolyubov Medal, Ukrainian Mathematical Congress, 2009
- Grant of Royal Society, Great Britain, 1998, 1999
- Grant of Royal Swedish Academy of Sciences, 1996, 1999

ACTIVITIES

- Vice-chairman of the Expert Council in mathematics and mechanics of Ministry of Education and Science of Ukraine, since 2010
- Member of the editorial board of the Ukrainian Mathematical Journal
- Member of the editorial board of the Methods of Functional Analysis and Topology
- Member of Specialized Council for defence of doctoral and candidate theses D 26.206.01 at Institute of Mathematics, NAS of Ukraine.
- Member of Academic Council of Institute of Mathematics, NAS of Ukraine, since 2010
- Scientific advisor of 2 Dr. Hab. and supervisor of 10 PhD.

RESEARCH INTERESTS

Functional analysis, operator theory, differential equations, spectral problems of mathematical physics

PUBLICATIONS

More than 200 publications, including 2 monographs and more than 120 papers. h=23 (Google Scholar), h=14 (Scopus), h=12 (Web of Science).

Monographs

- 1. Mikhailets V. A., Murach A. A. Hörmander Spaces, Interpolation, and Elliptic Problems. Kyiv: Institute of Mathematics NASU. 2010. 372 p. (In Russian).
- 2. Mikhailets V. A., Murach A. A. Hörmander Spaces, Interpolation, and Elliptic Problems. Berlin/Boston: De Gruyter, 2014. 309 p. https://doi.org/10.1515/9783110296891

Selected Papers

- 1. Mikhailets V. A., Sobolev A. V. Common eigenvalue problem and periodic Schrödinger operators // J. Funct. Anal. 1999. v. 165, no. 1. p. 150-172. https://doi.org/10.1006/jfan.1999.3406
- 2. Goriunov A. S., Mikhailets V. A., Pankrashkin K. Formally self-adjoint quasi-differential operators and boundary-value problems // Electron. J. Diff. Equ. − 2013. − № 101. − P. 1-16. https://ejde.math.txstate.edu/Volumes/2013/101/abstr.html
- 3. Mikhailets V. A., Murach A. A. Interpolation Hilbert spaces between Sobolev spaces // Results Math. 2015. 67, no. 1–2. P. 135–152. https://doi.org/10.1007/s00025-014-0399-x

https://doi.org/10.14232/ejqtde.2016.1.87

- 5. Los V. M., Mikhailets V. A., Murach A. A. An isomorphism theorem for parabolic problems in Hörmander spaces and its applications // Commun. Pure Appl. Anal. 2017. v. 16, no. 1. P. 69-97. https://doi.org/10.3934/cpaa.2017003
- 6. Hnyp, Ye., Mikhailets V., Murach A. Parameter-dependent one-dimensional boundary-value problems in Sobolev spaces // Electron. J. Diff. Equ. −2017. − № 81. − P. 1-13. https://ejde.math.txstate.edu/Volumes/2017/81/abstr.html
- 7. Kasirenko T., Mikhailets V., Murach A. Sobolev-Like Hilbert spaces induced by elliptic operators // Complex Analysis and Operator Theory. − 2019. − V. 13, №3. − P. 1431-1440. https://doi.org/10.1007/s11785-018-00886-8
- 8. Atlasyuk, O. M., Mikhailets V. A. Fredholm one-dimensional boundary value problems in Sobolev spaces // Ukrainian Math. J. -2019.-V.70, no. 10.-P.1526-1537. https://doi.org/10.1007/s11253-019-01588-w
- 9. Atlasyuk, O. M., Mikhailets V. A. Fredholm one-dimensional boundary value problems with a parameter in Sobolev spaces // Ukrainian Math. J. -2019.-V.70, no. 11.-P.1677-1687. https://doi.org/10.1007/s11253-019-01599-7
- 10. Los V. M., Mikhailets V. A., Murach A. A. Parabolic problems in generalized Sobolev spaces // Commun. Pure Appl. Anal. $-2021.-v.\ 20$, no. $10.-P.\ 3589-3620.$ https://doi.org/10.3934/cpaa.2021123