

CURRICULUM VITAE

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Doctor of Physical and Mathematical Sciences, Professor
Professor of Department of Mathematical Methods of System Analysis

EDUCATION

1962-1967, Kiev Polytechnical Institute, Department of Radioengineering
Qualification: radioengineer with a degree in "Radiotechnics"

Ph.D (mathematical analysis), Kiev Polytechnical Institute (1968-1971)

PhD thesis: "The diffusion processes in Hilbert space," 1972, defended at the Institute of Mathematics, Academy of Sciences of the Ukrainian SSR.

Doctoral thesis: "The parabolic equation on a Riemannian manifold", 2005, defended at the Institute of Applied Mathematics and Mechanics of National Academy of Sciences.

Academic Positions

Professor, Institute of Applied System Analysis, Kiev Polytechnical Institute (2002-)
Associate Professor, Institute of Applied System Analysis, Kiev Polytechnical Institute (1998-2002)
Associate Professor, Department of Applied Mathematics, Kiev Polytechnical Institute (1973-1998)
Junior research assistant, Kiev Polytechnical Institute (1971-1973)

Classes

Mathematical analysis
Equations of mathematical physics
Financial mathematics
Theory of Probability and Mathematical Statistics

SELECTED JOURNAL ARTICLES

V.Bondarenko, C.Truskovskiy. Chaotic and random components in natural temporary data, System Research and Information Technology, 2015, №4, pp.114- 122.

Victor Bondarenko. The Cauchy problem solution for parabolic equation with a nonlocal potential. Journal of Automation and Information Sciences, 2012, Volume43, Issue 6, pp.97-100.

Victor Bondarenko, Julia Prokopenko. Barrier functions for one class of semilinear parabolic equations. Ukrainian Mathematical Journal, 2008, Volume 60, Issue 11, pp. 1691-1701

Victor Bondarenko. Jacobi fields on a Riemann manifold. Ukrainian Mathematical Journal, 2006, Volume 58, Issue 12, pp 1818-1833.

Victor Bondarenko, A parabolic equation on a manifold of nonpositive curvature, *Journal of Mathematical Sciences*, August 1999, Volume 96, Issue 2, pp 2995-2998.

Victor Bondarenko, On the Properties of Some Class of Measures in a Hilbert Space, *Journal of Mathematical Sciences*, May 2001, Volume 104, Issue 5, pp 1432-1435. ???

Victor Bondarenko. The fundamental solution of the perturbed parabolic equation. *Ukrainian Mathematical Journal*, 2003, Volume 55, Issue 8, pp 1011-1021.

Victor Bondarenko. The perturbed parabolic equations on a Riemannian manifold. *Ukrainian Mathematical Journal*, 2003, Volume 55, Issue 7, pp 977-982.

Victor Bondarenko. Logarithmic Gradient of the Heat Kernel on Riemannian Manifolds. *Mathematical Notes*, 2003, Volume 74, Issue 3, pp 471-475.

Victor Bondarenko. Construction of the fundamental solution of disturbed parabolic equation, *Bulletin des Sciences Mathématiques*, 2003, Volume 127, Issue 3, pp. 191–206.

Bondarenko V., Bidiuk P., Bernatska J. Solving parabolic equations by using method of fast convergent iterations. *J. of Appl. Math. and Computer Science*, 2000, V.10, №2, pp.333-344.

Victor Bondarenko. The logarithmic derivatives of diffusion measures in Hilbert space. *Ukrainian Mathematical Journal*, 2000, Volume 52, Issue 4, pp 537-543.

Victor Bondarenko. Finite-dimensional approximations of diffusion measures in a Hilbert space. *Ukrainian Mathematical Journal*, 1999, Volume 51, Issue 12, pp 1587-1592.

Victor Bondarenko. Parametrix method for a parabolic equation on a Riemannian manifold. *Ukrainian Mathematical Journal*, 1999, Volume 51, Issue 11, pp 1443-1448.

Victor Bondarenko. Parabolic equation on the Riemann manifold. *Mathematical sciences*, 1998, V.10, №1, pp.93-96.

Victor Bondarenko. Absolute continuity of perturbed Gaussian measures, *Cybernetics and Systems Analysis*, 1998, Volume 34, Issue 2, pp 168-170.

Victor Bondarenko. Approximating the density of infinite-dimensional distributions, *Cybernetics and Systems Analysis*, 1998, Volume 34, Issue 1, pp 172-174.

Victor Bondarenko, Alexey Novikov. On the Derivative of Thermal Conduction Kernel. *Journal of Automation and Information Sciences*, 1998, №4, pp.132-135.

Victor Bondarenko. The construction of solution of parabolic equations with variable coefficients. *Journal of Automation and Information Sciences*, 1998, №1, pp.136-139.

Victor Bondarenko. The estimates of heat kernel on the manifold of non-positive curvature. *Ukrainian Mathematical Journal*, 1998, Volume 50, Issue 8, 1998, pp.1129-1136

Victor Bondarenko. The covariant derivatives of Jacobi fields on a manifold of non-positive curvature. *Ukrainian Mathematical Journal*, 1998, Volume 50, Issue 6, pp 755-764.

Victor Bondarenko. Diffusion sur une variété de courbure non positive. *Comptes Rendus de l'Académie des Sciences-Series I-Mathematics*, Issue 324, №10, p. 1099-1103, 1997.

Victor Bondarenko. On some properties of the diffusion measures in Hilbert space. *Reports of the National Academy of Sciences of Ukraine*, 1997, №6, pp.14-18.

Victor Bondarenko. Estimation of the fundamental solution of a parabolic equation on a manifold of non-positive curvature. Reports of the National Academy of Sciences of Ukraine, 1995, №12, pp.10-12.

Main conferences

Professional VISITS:

University of Toulouse, France, 1999.

Academic supervision:

Research fields

Quasilinear parabolic equations

Stochastic models of time series