

**CURRICULUM VITAE**  
**VITALII STATKEVYCH**

**Address:** Institute of Applied System Analysis,  
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**Citizenship:** Ukraine

**Age:** 30

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**Scientific degree:** Ph.D. in Mathematics, 2012 (Institute of Mathematics of the National  
Academy of Sciences of Ukraine, Kyiv, Ukraine)

**Research interests:** functional analysis, mathematical analysis

**Professional experience:**

since November 2011 researcher  
Institute of Applied System Analysis,  
Kyiv Polytechnic Institute, Kyiv, Ukraine

**Teaching experience:**

since September 2012 assistant professor (mathematical analysis, discrete mathematics,  
mathematical logics and computation theory, linear algebra and  
analytic geometry, probability theory courses)  
Institute of Applied System Analysis,  
Kyiv Polytechnic Institute, Kyiv, Ukraine

**Education:**

2008–2011 Institute of Applied System Analysis, Kyiv Polytechnic Institute, Kyiv, Ukraine  
post-graduate study  
Ph.D. thesis: Essentially infinite-dimensional differential equations, 2012  
Supervisor: Prof. Yu.V. Bogdansky  
2002–2008 Institute of Applied System Analysis, Kyiv Polytechnic Institute, Kyiv, Ukraine  
M.Sc. Applied Mathematics

**Publications**

**Articles:**

1. (with N.V. Andreev) *One one optimal control problem for the first-order linear equation with essentially infinite-dimensional elliptic operator*, Analysis, Modeling and Control, Book of papers on applied nonlinear department of IASA NTUU "KPI" **2** (2015), P. 58–63 (Russian);

2. *The application of the essentially infinite-dimensional elliptic operator to functions  $f(x, u(x))$  and  $f(x, u_1(x), \dots, u_m(x))$* , Research Bulletin of NTUU "KPI" **4** (2015), 76–84 (Ukrainian);
3. *On the heat equation with operators of the Laplace-Lévy type*, Analysis, Modeling and Control, Book of papers on applied nonlinear department of IASA NTUU "KPI" **1** (2013), 142–149 (Russian);
4. *Differential equations of linear type with essentially infinite-dimensional operator*, Bukovyns'kyi Matematychnyi Zhurnal **1** (2013), No. 3–4, 144–147 (Ukrainian);
5. (with Yu.V. Bogdansky) *The Cauchy problem for the simplest evolution nonregular equation*, Spectral and Evolution Problems **22** (2012), Simferopol, 23–27 (Russian);
6. *Investigation of solutions of boundary-value problems with essentially infinite-dimensional elliptic operator*, Ukrains'kyi Matematychnyi Zhurnal **64** (2012), No. 2, 229–236 (Ukrainian); English translation: Ukrainian Mathematical Journal **64** (2012), No. 2, 262–272;
7. *Cramer's rule analog for simultaneous linear differential equations with nonregular elliptic operator*, Bulletin of Tavrida National V.I. Vernadsky University **24(63)** (2011), No. 3, 89–97 (Russian);
8. (with Yu.V. Bogdansky) *The abstract Picard theorem and essentially infinite-dimensional equations*, Spectral and Evolution Problems **21**, issue 1 (2012), Simferopol, 61–65 (Russian);
9. *Systems of essentially infinite-dimensional differential equations*, Ukrains'kyi Matematychnyi Zhurnal **63** (2011), No. 9, 1257–1262 (Ukrainian); English translation: Ukrainian Mathematical Journal **63** (2011), No. 9, 1433–1440;
10. (with Yu.V. Bogdansky) *Nonlinear equations with essentially infinite-dimensional differential operators*, Ukrains'kyi Matematychnyi Zhurnal **62** (2010), No. 11, 1571–1576 (Ukrainian); English translation: Ukrainian Mathematical Journal **62** (2010), No. 11, 1822–1827;
11. *On one boundary-value problem with essentially infinite-dimensional elliptic operator*, Spectral and Evolution Problems **20** (2010), Simferopol, 189–192 (Russian);

12. (with Yu.V. Bogdansky) *Linear differential equations with essentially infinite-dimensional operators*, Research Bulletin of NTUU "KPI" (2008), **2**, 144–147 (Ukrainian).

**Theses:**

1. (with N.V. Andreev) *On one stabilization problem of the solution of the essentially infinite-dimensional equation*, The nonlinear analysis and applications 2015: Materials of 3rd international conference on memory of corresponding member of National Academy of Science of Ukraine V.S. Melnik (April 1–3, 2015, Kyiv), NTUU "KPI" (2015), 9;
2. *On the infinite-dimensional analogs of the heat equation with operators of the Laplace-Lévy type*, Analysis, Modeling and Control, Book of papers on applied nonlinear department of IASA NTUU "KPI" **1** (2013), 182–183 (Russian);
3. *On the heat equation with essentially infinite-dimensional elliptic operator*, International Conference "Crimea Autumn Mathematical School-Symposium", Book of Abstracts, Simferopol (2013), 40 (Russian);
4. *The Cauchy problem for the simplest evolution nonregular equation*, International Conference "Crimea Autumn Mathematical School-Symposium", Book of Abstracts, Simferopol (2012), 65 (Russian);
5. *Essentially infinite-dimensional differential equations of linear type*, Conference "Differential equations and their applications in applied mathematics", Chernivtsi, Ukraine, June 11–13 (2012), 99 (Ukrainian);
6. *Dirichlet problem for the nonlinear equation with essentially infinite-dimensional elliptic operator: the continuous dependence of solution on boundary values*, The nonlinear analysis and applications 2012: Materials of 2nd international conference on memory of corresponding member of National Academy of Science of Ukraine V.S. Melnik (April 4–6, 2012, Kyiv), NTUU "KPI" (2012), 103;
7. *The continuous dependence of the solution of the nonlinear equation with essentially infinite-dimensional operator on the right-hand side*, Conference "Actual problems of applied mathematics, informatics and mechanics", 26–28 September, 2011, Voronezh, Russia, (2011), 44–45 (Russian);

8. *On one system of essentially infinite-dimensional equations*, International Conference "Crimea Autumn Mathematical School-Symposium", Book of Abstracts, Simferopol (2011), 51 (Russian);
9. *The Dirichlet problem for the linear equation with essentially infinite-dimensional elliptic operator*, Pontryagin Readings-XXII at Voronezh Spring Mathematical School "Modern Methods in Theory of Boundary Value Problems", Voronezh, Russia (2011), 180 (Russian);
10. (with Yu.V. Bogdansky) *Nonlinear essentially infinite-dimensional equations*, International Conference "Crimea Autumn Mathematical School-Symposium", Book of Abstracts, Simferopol (2010), 48 (Russian).

**Book:**

1. (with I.Ya. Spector'sky and O.V. Stus') *Discrete mathematics. Exercises: Workbook*, Kyiv, NTUU "KPI" (2015), 103 p (Ukrainian).

**Working papers:**

1. *Connection between Petri nets and Polish notation*, System research and information technologies, 6 p (Russian) *submitted*;
2. (with N.V. Andreev) *On control problem of nonhomogeneous birth and death process*, 18-th International conference on System Analysis and Information Technology SAIT 2016, 1 p (Russian) *submitted*.

**Conferences and Schools:**

- Third Conference of memory of corresponding member of National Academy of Sciences of Ukraine V.S. Mel'nik "Nonlinear analysis and applications" (April 1–3, 2015, Kyiv, Ukraine);
- International Conference "Crimea Autumn Mathematical School-Symposium" (September 22 – October 4, 2013, Sudak, Ukraine);
- Conference "Differential equations and their applications in applied mathematics" (June 11–13, 2012, Chernivtsi, Ukraine);
- Second Conference of memory of corresponding member of National Academy of Sciences of Ukraine V.S. Mel'nik "Nonlinear analysis and applications" (April 4–6, 2012, Kyiv, Ukraine);

- International Conference "Crimea Autumn Mathematical School-Symposium" (September 17–29, 2011, Laspi-Batiliman, Ukraine);
- International Conference "Crimea Autumn Mathematical School-Symposium" (September 18–29, 2010, Laspi-Batiliman, Ukraine);
- International Conference "Crimea Autumn Mathematical School-Symposium" (September 17–29, 2009, Laspi-Batiliman, Ukraine).

**Languages:** English, Ukrainian and Russian