

CURRICULUM VITAE of V. C. Covachev

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Name: Valéry Christov Covachev

(also Valery Kovachev, Valeriy Kovatchev, Валерий Ковачев, etc.)

Date and Place of Birth: January 2, 1955, Sofia, Bulgaria.

Current address: Department of Differential Equations and Mathematical Physics,
Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 8 Acad.
G. Bonchev Str., 1113 Sofia, Bulgaria.

E-mail address: vcovachev@hotmail.com.

Marital status: married since 1987, with 1 son born 1989.

Education:

1. English Language School, Sofia, Bulgaria, 1968–1973.

2. M.S.: Faculty of Mathematics, Sofia University, Sofia, Bulgaria, 1980.

3. Ph.D.: Faculty of Applied Mathematics, Belarus University, Minsk, Belarus,
January, 1985. Thesis Supervisor: Prof. Dr. Yu. St. Bogdanov.

Ph.D. Thesis: Birational transformations of ordinary
differential equations with rational right-hand sides.

4. D. Sc.: Institute of Mathematics and Informatics, Bulgarian Academy of
Sciences, Sofia, Bulgaria, June, 2014.

D.Sc. Thesis: Systems of differential equations and neural networks with
delays and impulses.

Positions:

1. Математик в Изчислителния център на БНБ, 1980–1981.

2. Асистент по чл. 64 в Центъра по приложна математика, ВМЕИ (Технически
университет), София, 1981.

3. Научен сътрудник към секция „Диференциални уравнения“ (1985–1987), към секция
„Математическа физика“ (1987–1993), Институт по математика – БАН.

4. Старши научен сътрудник II ст. (доцент) към секция „Математическа физика“
(1993–2011), секция „Диференциални уравнения и математическа физика“ (от 2011 г.
досега), Институт по математика и информатика – БАН, (в отпуск февруари 2000 –
юни 2001 и август 2003 – август 2014); ръководител на секция „Математическа
физика“, 1994–2004.

5. Associate Professor at the Department of Mathematics, Fatih University,
Istanbul, Turkey, 2000–2001.

6. Associate Professor at the Department of Mathematics & Statistics, College of
Science, Sultan Qaboos University, Sultanate of Oman, 2003–2014.

Participation in conferences, symposia, workshops, etc.

Abroad:

1. 6th Conference of Bulgarian Postgraduate Students in USSR, Moscow, 1983.

2. Banach Semesters, Warsaw, Poland, 1985, 1990.

3. Republican Readings on Ordinary Differential Equations, Minsk, Belarus, 1990.

4. International Conferences on Mathematical Population Dynamics: Third, Pau,
France, 1992; Fifth, Zakopane, Poland, 1998.

5. Workshop on Nonlinear Evolutionary Equations, ICTP, Trieste, Italy, 1993.

6. Colloquium of the French Biological Society, St. Flour, France, 1993.

7. Conference on Ordinary Differential Equations, Florence, Italy, 1993.

8. Workshop of the Commission of the European Communities on International
Projects, Design Methodologies, Populations Dynamics, etc., Gliwice and Cracow,
Poland, 1993.

9. Workshop on Application of Oscillating Integrals to Hyperbolic Differential Equations, International Centre for Mathematical Sciences, Edinburgh, Scotland, 1994.
10. Conference on Nonlinear Differential Equations, Kyiv, Ukraine, 1995.
11. School on Nonstandard Analysis and Applications, International Centre for Mathematical Sciences, Edinburgh, Scotland, 1996.
12. Conference on Functional Differential-Difference Equations and Applications, Antalya, Turkey, 1997.
13. Conference on Biomathematics-Bioinformatics and Applications of Functional Differential-Difference Equations, Alanya, Turkey, 1999.
14. 3rd World Congress of Nonlinear Analysis, Catania, Italy, 2000.
15. Workshop on Differential Equations and their Applications, Istanbul, Turkey, 2000.
16. International Conference on Functional Differential Equations and Applications, Beer-Sheva, Israel, 2002.
17. Conference on Differential Equations and Applications (CDEA 2003), Žilina, Slovakia, 2003.
18. Mathematica Gulf Conference, Muscat, Sultanate of Oman, 2004.
19. Conference on Dynamical Systems and Applications, Antalya, Turkey, 2004.
20. International Symposium on Neural Networks and Soft Computing in Structural Engineering, Cracow, Poland, 2005.
21. Fourth UAE Math Day, Sharjah, UAE, 2006.
22. National Symposium "Towards National Standards for Foundation Year Programs", Muscat, Sultanate of Oman, 2007.
23. Learning Technologies and Mathematics Middle East Conference, Muscat, Sultanate of Oman, 2007.
24. Eighth UAEU Research Conference, Al Ain, UAE, 2007.
25. 6th ISAAC (International Society for Analysis, its Applications and Computation) Congress, Ankara, Turkey, 2007.
25. 3rd International Conference on Mathematical Sciences, Al Ain, UAE, 2008.
27. Conference on Differential and Difference Equations and Applications (CDDEA 2008), Strečno, Slovakia, 2008.
28. The Sixth International Symposium on Neural Networks (ISNN 2009), Wuhan, China, 2009.
29. The 5th International Conference: 2009 - Dynamical Systems and Applications, Constanța, Romania, 2009.
30. International Conference of Mathematical Sciences, Istanbul, Turkey, 2009.
31. Conference on Differential and Difference Equations and Applications (CDDEA 2010), Rajecské Teplice, Slovakia, 2010.
32. The 6th International Conference: 2010 - Dynamical Systems and Applications, Antalya, Turkey, 2010.
33. International Conference on Differential & Difference Equations and Applications, Ponta Delgada, Portugal, 2011.
34. The 7th European Conference on Elliptic and Parabolic Problems, Gaeta, Italy, 2012.
35. Conference on Differential and Difference Equations and Applications (CDDEA 2012), Terchová, Slovakia, 2012.
36. International Conference: Mathematical Science and Applications, Abu Dhabi, UAE, 2012.
37. Bogolyubov Readings DIF-2013. Differential Equations, Theory of Functions and Their Applications, Sevastopol, Ukraine, 2013.
38. Symposium on Differential Equations and Difference Equations, Homburg, Germany, 2014.

In Bulgaria:

1. Conferences on Differential Equations, Roussé, 1985, 1989.

2. Conference on Integral Equations and Inverse Problems, Varna, 1989.
3. Workshop on Nonlinear Hyperbolic Equations, Sofia, 1991.
4. First-Sixth International Colloquia on Differential Equations, Plovdiv, 1990-1995.
5. First and Second International Colloquia on Numerical Analysis, Plovdiv, 1992, 1993.
6. Summer Schools "Application of Mathematics in Engineering", Varna, 1986, 1988-1994; Sozopol, 1998-2001.
7. 2nd Annual Meeting of the Bulgarian Section of SIAM, Sofia, 2007.
8. 9th Annual Meeting of the Bulgarian Section of SIAM, Sofia, 2014.

Other visits abroad:

1. Visit of Chişinău University, Chişinău, Moldova, 1983.
2. Visit of the Institute of Mathematics, Akademie der Wissenschaft der DDR (the former East Germany), 1987.
3. Visit of the Akdeniz University, Antalya, Turkey, 1992.
4. Visit of the Université de Pau et du Pays de l'Adour, Pau, France, 1993.
5. Visit of the Valencia Polytechnical University (Spain) for joint research with Prof. L. Jódar supported by the Commission of the European Communities, 1993.
6. Visit of Fatih University, Istanbul, Turkey, 2000.
7. Visit of UAEU, Al Ain, UAE, 2010.

Teaching:

1. Допълнителни глави по обикновени диференциални уравнения, Институт по математика - БАН, спецкурс, 1986.
2. Линейна алгебра и аналитична геометрия, Математически анализ I и II, Избрани глави от математиката, Технически университет, София, упражнения, 1985-88.
3. Частни диференциални уравнения, Факултет по математика, Софийски университет, упражнения, 1987.
4. Теория на разсейването, Технически университет, София, спецкурс, 1988-1989.
5. Математика, Висше транспортно училище, София, упражнения, 1989-1991.
6. Математически анализ II, Факултет по математика, Софийски университет, упражнения, 1989-1991.
7. Abstract Mathematics, Calculus, Differential Geometry, Combinatorics and Graph Theory, Discrete Mathematics, Differential Equations, Partial Differential Equations, Fatih University, Istanbul, lectures, 2000-2001.
8. Business Mathematics II, Calculus I, Linear Algebra and Multivariate Calculus for Engineers, Precalculus, Differential Equations and Applications for Engineers, Introduction to Partial Differential Equations, Discrete Mathematics for Computer Science, Discrete Mathematics for Electrical and Computer Engineers Mathematics for Science in English (Foundation Program), Sultan Qaboos University, Muscat, lectures and tutorials, 2003-2014.

Membership: Union of Bulgarian Mathematicians, Union of Scientists in Bulgaria, American Mathematical Society, Society for Industrial and Applied Mathematics, IEEE.

Participation in the Organizing, Scientific or Program Committees:

1. of the Conference on Integral Equations and Inverse Problems, Varna, Bulgaria, 1989 (editing the proceedings);
2. of the Workshop on Nonlinear Hyperbolic Equations, Sofia, Bulgaria, 1991;
3. of the Colloquia on Differential Equations (1990-1994) and on Numerical Analysis (1992-1994), Plovdiv, Bulgaria (editing the proceedings);

5. of DESTOBIO'97 (International Conference on Deterministic and Stochastic Modeling of Biointeraction), Sofia, 1997 (editing the abstracts);
6. of the International Conference on Biomathematics-Bioinformatics and Applications of Functional Differential Equations, Alanya, Turkey, 1999 (editing the abstracts and proceedings).
7. of International Conference: 2004 - Dynamical Systems and Applications, Antalya, Turkey, 2004 (editing the abstracts and proceedings).
8. of International Conference: 2007 - Dynamical Systems and Applications, İzmir, Selçuk, Kuşadası, Turkey (editing the abstracts and proceedings).
9. of Conference on Differential and Difference Equations and Applications (CDDEA 2008), Strečno, Slovakia, 2008.
10. of The 5th International Conference: 2009 - Dynamical Systems and Applications, Constanța, Romania, 2009.
11. of The 6th International Conference: 2010 - Dynamical Systems and Applications, Antalya, Turkey, 2010 (editing the abstracts and proceedings).
12. of Conference on Differential and Difference Equations and Applications (CDDEA 2010), Rajecské Teplice, Slovakia, 2010.
13. of Conference on Differential and Difference Equations and Applications (CDDEA 2012), Terchová, Slovakia, 2012 (an editor of the proceedings).
14. of International Conference: Mathematical Science and Applications, Abu Dhabi, UAE, 2012 (editing the abstracts and proceedings).
15. of Second Abu Dhabi University Annual Conference: Mathematical Science and Its Applications, Abu Dhabi, UAE, 2013.
16. of Karatekin Mathematics Days, Çankırı, Turkey, 2014.
17. of Conference on Differential and Difference Equations and Applications (CDDEA 2014), Jasná, Slovakia, 2014.
18. of Third Abu Dhabi University Annual Conference: Mathematical Science and Its Applications, Abu Dhabi, UAE, 2013.

Editor of Journals: African Diaspora Journal of Mathematics, International Journal: Mathematical Manuscripts, Journal of Advanced Researches on Dynamical and Control Systems, International Journal for Statisticians, International Journal of Mathematics and Computation, Contemporary Analysis and Applied Mathematics; Guest Editor of Abstract and Applied Analysis, of Advances in Difference Equations.

Reviewer: Mathematical Reviews, Zentralblatt, Bulgarian Research Foundation, professional journals.

Major fields of interest: Partial differential equations, dynamical systems, impulsive and delay differential equations, functional equations, population dynamics, neural networks.

Knowledge of foreign languages: English, Russian, Spanish, Italian, Polish, German, French.

Computer-related skills: LaTeX, Word, Maple.