

Curriculum Vitae

David Ceban

Currently position: Professor of State University of Moldova (1992 -- present)

Date and place of born: April 25, 1952; v. Cioc-Maidan, r-n Comrat, Republic of Moldova.

Education:

1969-1974: State University of Moldova, Faculty of Mathematics and Cibernetics,
Honourous diploma in the field of mathematics

1974 - 1977: State University of Moldova, PhD student, PhD diploma

1986–1988 : State University of Moldova, Postdoc.

1969: High School v. Cioc-Maidan, Comrat, Certificate.

Scientific/Academic titles:

1993 – Full Professor

1984 – Associated Professor

1991 - Doctor habilitation

1978 – PhD

Field of scientific interests:

Primary interests:

- Qualitative Theory of Differential Equations,
- Dynamical Systems.

Secondary interests:

- Partial Differential Equations,
- Functional Differential Equations,
- Difference Equations,
- Differential Inclusions,
- Control Theory

Professional activity:

2012 – present: State University of Moldova, Professor of Department Fundamental Mathematics.

2000 – 2012: State University of Moldova, Professor of chair of Mathematical Analysis and Differential Equations.

1992 – 2000: State University of Moldova, Professor of chair of Differential Equations.

1982 – 1992: State University of Moldova, Associated Professor of chair of Differential Equations

1977 - 1982: State University of Moldova, Assistant Professor of chair of Differential Equations

1980 – 1983: University of Huari Bumedi (Alger), Maitre d'assistant

Invited Professor:

- a. University of Frankfurt, Germany (september – october 1998; september 2000);
- b. University of Merseburg, Germany (june 1997; november 2000);
- c. University of Bremen, Germany (october 2000);
- d. University of Paderborn, Germany (october – november 2006);
- e. Illinois Institut of Tehnology, Illinois, USA (much – june 2002);

- f. University of Macerata, Italy (september 2002 – february 2003, may 2012-august 2012);
- g. University of Ancona, Italy (may 2003 – october 2006);
- h. University of Sevilla, Spain (december 2007 – january 2008, february 2010 – september 2010);
- i. University of Limoge, France (november 2008);
- j. University of Granada, Spain (december 2013—january 2014);
- k. University of Sao Pulo, Sao Carlos, Brazil (august 2014—october 2014).

Teaching:

- Differential Equations,
- Partial Differential Equations,
- Calculus,
- Autonomous Dynamical Systems (special course),
- Non-Autonomous Dynamical Systems (special course),
- Linear Differential Equations in the Banach spaces (special course),
- Dissipative Dynamical Systems (special course),
- Global Attractors of Dynamical Systems (special course),
- Metodes asymptotic in the theory of diff special course erential equations (special course),
- Almost periodic furnctions and differential equations (special course),
- Differential Equations and Non-Standart Analysis (special course),
- Distributions and their applications for differential equations (special course),
- Stability Theory of Dynamical Systems (special course).

Improvement of professional skill

1984 (September – December): Moscow State University (USSR), Chair of Differential Equations, Faculty of Mechanics and Mathematics.

Grants:

2013

Erasmus Mundus -- EMERGE scholarship (December 2013 – January 2014, Granada, Spain), Visiting Professor.

2012

PROGRAMMI DI RICERCA SCIENTIFICA DI RILEVANTE INTERESSE NAZIONALE
RICHIESTA DI COFINANZIAMENTO (Ministero dell' Istruzione dell' Universit e della Ricerca, Italy). University of Macerata (May - August 2012) under the Grant PRIN-2009, Visiting Professor.

2012-2016

FP7 Seventh framework programme of the European Union. Inernational Research Staff |Exchange Scheme (FP7-PEOPLE-2012-IRSES).
Local team leader.

2010:

- The Programa de Movilidad de Profesores Universitarios y Extranjeros (Ministerio de Educacion, Spain), grant SAB2009-0078 (Sevilla, Spain: february 2010 – september 2010);
- Proiectul **Comportări asimptotice și control în sisteme de evoluție guvernate de ecuații diferențiale** din cadrul Programului de stat *Cercetări fundamentale și aplicative în matematică* (Nr. _cod 06411.411.029f, **2010-2013**).

2007: Grant of the Consejeri a de Innovacion Ciencia y Empresa de la Junta de Andalucia (Seville, Spain: november 2007 – January 2008);

2006: DAAD grant (Paderborn, Germania: november – december 2006);

2003: Grant of European Commission (Marie Curie 6th Program, may 2003 – october 2004),

2002: NATO-CNR grant (Italia: september 2002 – february 2003);

2001:

- Grant CRDF&MRDA (grant No.MM1-3016, september 2001 – february 2003);
- Grant al Guvernul Republicii Moldova (grant No.01.004C, 2001-2002);

2000:

- Travel grant of Soros International Scientific Foundation (may 2000);
- DAAD grant (Frankfurt am Main, Bremen, Merseburg, Germania: september – november 2000);

1999: DFG grant (Frankfurt am Main, Germania: september – october 1999);

1998: RIP Research grant (Oberwolfach, Germania: march 1998) with Profs P.E.Kloeden (University of Frankfurt, Germany) and B.Schmalfuss (University of Merseburg, Germany);

1993: Grant of Soros International Scientific Foundation.

International scientific collaboration.

I'm keeping close scientific contacts and collaborate with mathematicians from Russia, USA, Romania, Ukraine, Belarussia, Germany, France, Spain, Italy, Australia, Canada, Morocco, and other countries. I have joint scientific publications with researchers from Germany (Prof. Peter Kloeden from University of Frankfurt and Prof. Bjoern Schmalfuss from University of Merseburg), USA (Prof. Duan J. from Illinois Institute of Technology), Italy (Prof. C. Mammana and Dr. Michetti E. from University of Macerata) and Spain (Prof. T. Caraballo from University of Sevilla).

Scientific publications:

162 publications, including **8 monographs**:

1. Cheban D. N., *Lyapunov Stability of Non-Autonomous Dynamical Systems*. [Nova Science Publishers Inc](http://www.novapublishers.com/catalog/product_info.php?products_id=42167&osCsid=5901e216f35a77b01237c9ef4cc21f3d), 2013, xii+275 pp.
(https://www.novapublishers.com/catalog/product_info.php?products_id=42167&osCsid=5901e216f35a77b01237c9ef4cc21f3d)
2. Cheban D. N., *Global Attractors of Set-Valued Dynamical and Control Systems*. Nova Science Publishers Inc, New York, 2010, pp.307.
(https://www.novapublishers.com/catalog/product_info.php?products_id=12515)
3. Cheban D. N., *Asymptotically Almost Periodic Solutions of Differential Equations*. [Hindawi Publishing Corporation](http://www.hindawi.com/books.html), New York, 2009, 220 pp.
(<http://www.hindawi.com/books.html>)

4. Cheban D. N. *Global Attractors of Nonautonomous Dissipative Dynamical Systems*. Interdisciplinary Mathematical Sciences 1. River Edge, New Jersey: World Scientific, 2004, 528 pp. (<http://www.worldscibooks.com/mathematics/5643.html>)
5. Чебан Д. Н., *Глобальные аттракторы неавтономных динамических систем*. Издательский Центр Молдавского Госуниверситета. Chişinău, 2002, 386 стр.
6. Чебан Д. Н., *Асимптотически почти периодические решения дифференциальных уравнений*. Издательский Центр Молдавского Госуниверситета. Chişinău, 2002, 226 стр.
7. Чебан Д. Н., Факих Д. С. *Глобальные аттракторы дисперсных динамических систем*. "Sigma", Chişinău, 1994, 167 стр.
8. Чебан Д. Н. *Теория линейных дифференциальных уравнений. Избранные главы*. Кишинев, Штиинца, 1980, 111 стр.

and 3 manuals for students

1. Чебан Д. Н. *Высшая математика (Краткий справочник)*. „Evrka”, Chişinău, 1997, 75 стр. (на русском и румынском языках).
2. Чебан Д. Н. *Обыкновенные дифференциальные уравнения. Руководство к решению задач*. Издательский Центр Молдавского Госуниверситета, Chişinău, 2001, 406 стр.
3. Ceban D. N., Şubă A. *Probleme de ecuaţii diferenţiale*. Centrul Editorial al Universităţii de Stat din Moldova, Chişinău, 2001, 272 pp.

Recent publications:

2014

1. Cheban D. N., Markus-Yamabe Conjecture for Non-Autonomous Systems. *Nonlinear Analysis: TMA*, Volume 95, 2014, pp.202–218.
2. Cheban D. N., Birkhoff's center of compact dissipative dynamical system. In *The Third Conference of Mathematical Society of the republic of Moldova*, 19-23 August, 2014, Chisinau, Moldova. *Proceedings IMCS-50*. Chisinau, Inst. Math Comp. Science, Academy of Sciences of Moldova, 2014. pp.239-242.
3. Cheban D. N., Compact Global Attractors of Non-autonomus Gradient-Like Dynamical Systems. *Bulletinul Academiei de Stiinte a Republicii Moldova. Matematica*, No.2 (75), 2014, pp.85--101.

2013

4. Cheban D. N., Compact Global Chaotic Attractors of Discrete Control Systems. *Nonautonomous and Stochastic Dynamical Systems*, DOI: 10.2478/msds-2013-0002 • NSDS • 2013 • pp.10-25.
5. Cheban D. N., Asymptotic Stability of Non-autonomus Dynamical Systems. *Bulletinul Academiei de Stiinte a Republicii Moldova. Matematica*, No.1 (71), 2013, pp.11-44.
6. Cheban D. N. and Mammana C., Markus-Sell's Theorem for Asymptotically Almost Periodic Systems. Chapter in the Book „*Dynamical Systems: Theory, Applications and Future Directions*”. Editor: Jean Michel Tchenche (Atlanta, GA , USA). Nova Science Publishers, 2013, pp.1--20.
7. Cheban D. N., Lyapunov Stability of Non-Autonomous Dynamical Systems. [Nova Science Publishers Inc](http://www.novapublishers.com), 2013, xii+275 pp.

8. Caraballo Tomas and Cheban David, Almost Periodic Motions in Semi-Group Dynamical Systems and Bohr/Levitan almost periodic solutions of Linear difference equations without Favard's separation condition. *Journal of Difference Equations and Applications*, Volume 19, Issue 6, 2013, pp.872-897.
9. Cheban D. N., Mammana C. and Michetti E., Global attractors of quasi-linear non-autonomous difference equations: A growth model with endogenous population growth. *Nonlinear Analysis: serie B*, 14 (2013) pp.1716 - 1731.
10. Caraballo Tomas and Cheban David, Almost Periodic and Almost Automorphic Solutions of Linear Differential Equations. *DCDS-A*, vol. 33, no. 5, 2013, pp.1857-1882.
11. Caraballo Tomas and Cheban David, On the Structure of the Global Attractor for Infinite-Dimensional Non-autonomous Dynamical Systems with Weak Convergence. *Communications on Pure and Applied Analysis (CPAA)*, vol.12, no.1, 2013, pp. 281-302
12. Caraballo Tomas and Cheban David, Almost Periodic Motions in Semi-Group Dynamical Systems and Bohr/Levitan almost periodic solutions of Linear difference equations without Favard's separation condition. *Journal of Difference Equations and Applications*, Volume 19, Issue 6, 2013, pp.872-897.

2012

12. Cheban D. N., Sell's conjecture for Non-Autonomous Dynamical Systems. *Nonlinear Analysis: TMA*, Vol.75, no.7, 2012, pp.3393-3406.
13. Caraballo Tomas and Cheban David, On the Structure of the Global Attractor for Non-autonomous Dynamical Systems with Weak Convergence. *Communications in Pure and Applied Analysis*, Vol.11, no.2, 2012, pp.809-828.
14. Caraballo Tomas and Cheban David, On the Structure of the Global Attractor for Non-autonomous Difference Equations with Weak Convergence. *Journal of Difference Equations and Applications*, Volume 18, Issue 18, 2012, pp.535-551.

2011

15. Caraballo Tomas and Cheban David, Levitan/Bohr Almost Periodic and Almost Automorphic Solutions of Second-Order Monotone Differential Equations. *Journal of Differential Equations*, Vol.251, No.3, 2011, pp.708-727.
16. Caraballo Tomas and Cheban David, Almost Periodic and Asymptotically Almost Periodic Solutions of Lienard Equation. *DCDS-B*, Vol.16, No.3, 2011, pp.703-717 .

2010

17. Cheban D. N., *Global Attractors of Set-Valued Dynamical and Control Systems*. [Nova Science Publishers Inc](#), New York, 2010, xvii+269 pp.
18. Cheban D. N., Compact Global Attractors of Control Systems. *Journal of Dynamical and Control Systems*, vol.16 (2010), no.1, pp. 23--44.
19. Boularas Driss and Cheban David, Asymptotic Stability of Switching Systems. *Electronical Journal of Differential Equations*, 2010 (2010), no.21, pp.1-18.

Referee for:

- Acta Mathematicae Applicatae Sinica (China)
- Annali di Matematica Pura ed Applicata (Italy, Florence)
- Applicable Analysis (Int. England)
- Applied Mathematics and Computation (Int. USA)
- Applied Mathematics Letters (Int. USA)
- Boundary Value Problems (Int. USA)
- Buletinul Academiei de Științe a Republicii Moldova. Matematica (Republic of Moldova, Chișinău)
- Central European Journal of Mathematics (Int. Germany)
- Discrete and Continuous Dynamical Systems: Series A, B and S (Int. USA).
- Dynamical Systems: An international Journal. (Int., UK)
- Electronical Journal of Differential Equations (Int. USA)
- Indian Journal of Pure and Applied Mathematics (India, New Delhi)
- Journal of Differential Equations (Int. USA)
- Journal of Integral Equations and Applications (Int. USA)
- Journal of Mathematical Analysis and Applications: Series A and B (Int, USA)
- Lecture Notes in Mathematics (Int. Germany, Springer)
- Mathematical and Computer Modeling (Int. USA)
- Result in Mathematics (Int. Switzerland)
- Revista Matematica Complutense (Int. Spain)
- SIAM: Journal of Control and Optimization (Int. USA)
- Stochastics and Dynamics (Int. USA)

Reviewer for:

- Mathematical Reviews

Guesteditor of:

Proceedings of International conference "2004 - Dynamical Systems and Applications" (July 05-10 2004, Antalya, Turkey).

Associate Editor for:

- International Journal of Mathematics and Computations.
- Nonautonomous Dynamical Systems.

■ Languages:

- Russian, French, Turkish (*perfect*),
- English, Romania, Italian (*well*).

Web page (personal) : <http://www.usm.md/davidcheban>

ReserchGate : http://www.researchgate.net/profile/David_Cheban

