

CURRICULUM VITAE



Name: **Seremet Victor**

Born: **03.01.1945, v. Navirneti, town Falesti, Moldova**

Home address: **MD 2049, Chisinau, Mircesti, 8/1, ap. 150, Moldova**

Fix phone: **(37322) 432983 (home), (37322) 432243 (office)**

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Married – **have two children**

Personal website: **<http://greenfunction.md/>**

Current status:

PhD, Dr. Habilitat in Physico-mathematical Sciences;

Full Professor of Solid Mechanics and Director of Laboratory of Green's Functions

at Agrarian State University of Moldova;

Principal Scientific Researcher of Academy of Science of Moldova, Institute of Mathematics and Computer Science, Laboratory of Mathematical Modeling

Major scientific interests:

• **Mechanics of Solids:**

- Elasticity (elastostatic and elastodynamics);
- Thermoelasticity (stationary and non stationary; uncoupled and coupled thermoelasticity);
- Electroelasticity (stationary and non stationary);
- Magnetoelasticity (stationary and non stationary)
- Poroelasticity (poroelastostatic and poroelastodynamics; uncoupled and coupled poroelasticity)

• **Mathematics:**

- Integral Equations Methods
- Differential Equations Methods
- Applications of Mathematical Methods (especially Green's Functions Method), in Engineering

• **Mathematical Physics**

- Heat conduction (stationary and non stationary)
- Electrostatics and Electrodynamics,
- Acoustics

• **Fluid Mechanics**

Current research interests:

- Elaboration of the new formalism (Influence Element Method) to construct the Green's functions and Green's matrices for mathematical physics differential equations (especially for equations of elliptic type: elasticity, thermoelasticity, poroelasticity etc.);
- Constructing the Green's functions and Green's matrices and respective Poisson's type integral formulas (especially in closed form) for two and 3D boundary-value problems for canonical orthogonal domains (Cartesian, polar, cylindrical, spherical etc., and composite structures from them) for elliptic, parabolic and hyperbolic differential equations;
- Applications of the Green's functions and Green's tensors in different branches of applied mathematical physics and Solid Mechanics, including Micromechanics of defects in solids, Fracture mechanics, Thermoelasticity Poroelasticity and Contact problems;
- Applications of the Green's functions and Green's matrices to solve non homogeneous boundary value problems, arising from different branches of modern science, industry and technologies;

Degrees:

- **1970, Diploma of Master** in "Civil Engineering", specialty "Solid Mechanics", Moscow Civil Engineering Institute (MISI) (now Moscow State Civil Engineering University), Moscow, USSR;
- **1974, Diploma of Ph.D** (Candidate in Technical Science in Strength of Materials and Mechanics of Constructions), Moscow Institute of Civil Engineering, The Problem Research Laboratory on Photo Elasticity, USSR. The title of the dissertation: "Modeling of creeping of concrete by the method of elastic analogy";
- **1986, Certificate of Doctor in Technical Science** (Solid Mechanics), Moscow Civil Engineering Institute, USSR. The title of dissertation: "The Solving of 3D Boundary Value Problems of Elasticity by the Harmonic Integral Equations Method";
- **1995, Diploma of Doctor Habilitat in Physico - Mathematical Sciences**, specialty "Solid Mechanics", Technical University of Moldova, Republic of Moldova. The title of dissertation: "Integral equations and Green's matrices for boundary value problems of the influence elements method in mechanics of deformable bodies ".

University education:

- **1970-1973**, PhD student of Moscow Civil Engineering Institute (now: Moscow State Civil Engineering University), Moscow, Russia, USSR
- **1967-1970**, Student of Moscow Civil Engineering Institute, Moscow, Russia, USSR (was transferred from Chisinau Polytechnic Institute of Moldova as excellent undergraduate student)
- **1965-1967**, Student of Chisinau Polytechnic Institute (now: Technical University of Moldova), Chisinau, Moldova, USSR

Permanent positions:

- **December 2012-present** - Full Professor in Mechanics of Deformable Solid Body
- **October 2011**, Professor of Solid Mechanics at Agrarian State University of Moldova
- **April 1998** , Professor of Engineering Sciences at Agrarian State University of Moldova
- **1995 -1998**, Associate Professor of the Technical University of Moldova
- **May 1995**, Defended the Doctor Habilitat in Physical and Mathematical Sciences thesis (Solid Mechanics), in Technical University of Moldova, Republic of Moldova. The title of the dissertation: "Integral Equations and Green's Matrices of Influence Elements Method in Solid Mechanics"
- **September 1986** Defended the Doctor in Technical Science dissertation (Solid Mechanics), Moscow Civil Engineering Institute, USSR. The title of dissertation: "The Solving of 3D Boundary Value Problems of Elasticity by the Harmonic Integral Equations Method";
- **1981-1982**, Senior Scientific Researcher, Moscow, Russia, USSR
- **1975-1995**, Associate Professor at Agrarian State University of Moldova, Chisinau, Moldova, USSR
- **1974-1975**, Superior Lecture of the Polytechnic Institute of Moldova, Chisinau, Moldova, USSR
- **May 1974**, Defended the Ph.D (Candidate in Technical Science in Strength of Materials and Structural Mechanics) dissertation, Moscow Institute of Civil Engineering, The Problem Research Laboratory on Photo Elasticity, USSR. The title of dissertation: "Modeling of creeping of concrete by the method of elastic analogy".
- **May 1974**, Defended the Ph.D (Candidate in Technical Science in Strength of Materials and Structural Mechanics) dissertation, Moscow Institute of Civil Engineering, The Problem Research Laboratory on Photo Elasticity, USSR. The title of dissertation: "Modeling of creeping of concrete by the method of elastic analogy".

Temporary positions:

- **Since January 2013** Principal Scientific Researcher of Academy of Science of Moldova, Institute of Mathematics and Computer Science, Laboratory of Mathematical Modeling

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- **2012 – 2013** Leading Researcher of Academy of Science of Moldova, Institute of Mathematics and Computer Science, Laboratory of Mathematical Modeling
- **2006-2008**, Principal Scientific Researcher of Academy of Transports Communications and Informatics of Republic of Moldova
- **2005–2006**, Professor and Head of the Department of Engineering Sciences, Academy of Transports Communications and Informatics of Republic of Moldova
- **Since 2005** - Director of the Laboratory of Green's Functions and Matrices at Agrarian State University of Moldova
- **2002–2003**, Professor of Mathematical Sciences, Academy of Transports Communications and Informatics of Republic of Moldova
- **2001-2002**, Professor of Mathematical Sciences at Human University of Moldova

Visiting professor:

- **December 2013-March 2014**, HENAN UNIVERSITY OF TECHNOLOGY, CHINA;
- **June 2010**, four weeks, L'UNIVERSITÉ DE PARIS-EST, Laboratory MSME UMAR 8208 CNRS, FRANCE, (invited professor to work in the project Constructing Green 's Matrices in Elasticity)
- **October 2008**, four weeks, WIAS, (WEIERSTRASS INSTITUTE for Applied Analysis and Stochastics) BERLIN, GERMANY, invited researcher to work in the project Constructing Green 's Functions and Poisson's integral Formulas in Elasticity) ;
- **September 2007**, four weeks, UNIVERSITY DE MARNE LA VALLEE, FRANCE (as invited professor at Laboratory of Mechanics to continue the research on the project "Applications of Green's functions in mechanics" and to prepare a new more long duration stay to work on the theme: "Integral equations formulations"),
- **July 2005**, four weeks, UNIVERSITY DE MARNE LA VALLEE, FRANCE (as invited professor at Laboratory of Mechanics to work on the scientific project "Applications of Green's functions in Mechanics");
- **September 2004**, two weeks, UNIVERSITY DE MARNE LA VALLEE, FRANCE (as invited professor at Laboratory of Mechanics to start a collaboration in the field of Applications of the Green's Functions in Mechanics);
- **September 2002**, two weeks, "GHEORGE ASACHI" TECHNICAL UNIVERSITY OF IASI, ROMANIA (to teach students a special course of Thermo elasticity during two weeks) (as invited professor).

PUBLICATIONS: includes more than 130 items, among them **9 books**.

Selected Books:

- Seremet Victor, Thermoelastic Green's function (Steady-state BVPs for some semi-infinite domains), Editorial Centre of Agrarian State University, Publisher "Print-Caro" 236p. Chişinău 2014, ISBN 978-9975-46-108-1
- Seremet V and Bonnet G., Encyclopedia of Domain Green's Functions (thermo-magneto-electrostatics of solids), Publ, Agrar. State Univ. of Moldova, Chisinau, 220 pages, 2008 (in English)
- Şeremet V.D. *Handbook of Green's Functions and Matrices* - WIT press, Southampton and Boston, UK&USA, 2003, Book 304 p. + CD ROM, 232 p. (in English)
- Şeremet Victor, *Influence Elements Method*, State Agrarian University of Moldova: Publisher Center of UASM, Chişinău, **Moldova**, 2003, 260 pag. (in Romanian)
- Şeremet Victor, *Influence Functions in Stationary Thermoelasticity*, State Agrarian University of Moldova: Publisher Center of UASM, Chişinău, **Moldova**, 2003, 308 pag. (in Romanian)
- Şeremet V.D. *Green's functions and Green's matrices. Elasto-, thermo-, electrostatics of solid bodies*. Chişinău, Ştiinţa, Academy of Science of **Moldova**, 1994, - 220 p. (in Romanian).

- Sheremet, V.D. *Constructing Green's Matrices and Their Application to the Theory of Elasticity*, Chishinau, Monograph dep. In Mold. NIINTI N1346-M94, 1994, 286p (in Russian).

Selected Articles of International Circulation, most of them are cited by ISI:

- Seremet Victor, Deriving new thermoelastic Green's functions by using a new integral representation of Beltrami-Michel equations, *ASCE, Engineering Mechanics*, 2015 (accepted).
- Seremet Victor and Erasmo Carrera, Solution in Elementary Functions to a BVP of Thermoelasticity: Green's Functions and Green's-Type Integral Formula for Thermal Stresses within a Half-Strip", *Journal of Thermal Stresses*, Vol. 37, Issue 8, August, 2014, pp. 947-968 **Taylor&Francis, ISSN 0149-5739, IF, ISI: 1.169.**
- Şeremet Victor, Recent integral representations for thermoelastic Green's functions and many examples of their exact analytical expressions, *Journal of Thermal Stresses*, 37,(5), pp. 561-584, 2014, **Taylor&Francis, ISSN 0149-5739, IF, ISI: 1.169.**
- Seremet Victor, A new approach to constructing Green's functions and integral solutions in thermoelasticity, *Acta Mechanica*, 225, (3), pp. 737-755, 2014, **Springer, ISSN: 0001-5970 IF, ISI 1.268.**
- Seremet Victor, Static equilibrium of a thermoelastic half-plane: Green's functions and solutions in integrals, *Arch Appl Mech*, 84, (4), pp. 553-570, 2014, **Springer, ISSN: 0939-1533, IF, ISI: 1.438.**
- Şeremet Victor, A new efficient unified method to derive new constructive formulas and explicit expressions for plane and spatial thermoelastic Green's functions, *Acta Mechanica*, DOI 10.1007/s00707-014-1160-y, 2014, **Springer ISSN: 0001-5970 IF, ISI: 1.268.**
- Victor Seremet and Hui Wang Thermoelastic equilibrium of some semi-infinite domains subjected to the action of a heat source, *Journal of Thermal Stresses*, 2014 (accepted 26 September 2014); **Taylor&Francis, ISSN 0149-5739, IF, ISI: 1.169.**
- Seremet Victor, Cretu Ion, Influence functions, integral formulas, and explicit solutions for thermoelastic spherical wedges, *Acta Mechanica*, 224, 4, 2013, pp. 893-918 **Springer, ISSN: 0001-5970 IF, ISI 1.268**
- Seremet, V. Exact Elementary Green's Functions and Integral Formulas in Thermoelasticity for a Half-Wedge. *J. Eng. Mech.*, 138 (7), 721–737, 2012, **ASCE, ISSN: 0733-9399, IF, ISI: 1.116**
- Seremet V., New closed-form Green function and integral formula for a thermoelastic quadrant, *Applied Mathematical Modelling*, 36, 2012, pp. 799-812 **Elsevier, ISSN: 0307-904X IF, ISI: 2.158**
- Seremet V., Thermoelastostatic equilibrium of a spatial quadrant: Green's function and solution in integrals, *Arch Appl Mech*, 82 12, 2012, pp. 1771-1793 **Springer, ISSN: 0939-1533, IF, ISI: 1.438**
- Seremet V. and Bonnet G., New closed-form thermoelastostatic Green function and Poisson-type integral formula for a quarter-plane, *Mathematical and Computer Modeling*, Volume 53, Issue 1-2, January 2011, Pages 347-358, **Elsevier, ISSN: 0895-7177 IF, ISI: 2.02**
- Şeremet V., A new technique to derive the Green's type integral formula in thermoelasticity, *Engineering Mathematics*, Vol. 69. Number 4, 2011, pp. 313-326, **Springer, ISSN: 0022-0833, IF, ISI: 1.069**
- Seremet V., Deriving exact Green's functions and integral formulas for a thermoelastic wedge, *Engineering Analysis with Boundary Elements*, Vol. 35, Issue 3, 2011, pp. 327-332, **Elsevier ISSN: 0955-7997 IF, ISI: 1.437**
- Victor Seremet, A method to derive new Greens tensors for polar domains, *Mechanics Research Communications*, Volume 37, Issue 1, January 2010, Pages 7-12 .
- Şeremet Victor, New explicit Green's function and Poisson's integral formula for a thermoelastic quarter-space, *Journal of Thermal Stresses*, Volume 33 Issue 4, 2010 Pages 356 – 386
- Seremet Victor, Exact elementary Green functions and Poisson-type integral formulas for a thermoelastic half-wedge with applications, *Journal of Thermal Stresses*, Vol. 33, Issue 12, 2010, pages 1156-1187, DOI: 10.1080/01495739.2010.510746

- Sheremet Victor, Bonnet Guy and Tatiana Speianu, New Poisson's type integral formula for thermoelastic half-Space, *Mathematical Problems in Engineering*, Volume 2009, Article ID284380, 18 pages doi:10.1155/2009/284380.
- Sheremet Victor, Bonnet Guy and Tatiana Speianu, New integral representations in the dynamic uncoupled thermoelasticity, *Journal of Thermal Stresses*, 32:1043-1064, 2009.
- Sheremet V.D. – New Formulae for Dynamical Thermal Stresses. *Journal of Thermal Stresses*, 25, (2), 2002, USA, 30 p.
- Melnikov Yu.A. and Seremet V.D. Some new Green's functions for a circular Poisson-Kirchhoff plate, (IASCOME), 2001
- Melnikov Yu.A. and Sheremet V.D. – Some new results on the bending of circular plate subject to a transverse point force *Mathematics and Mechanics of Solids*, Vol.6, № 1, 2001, USA, p. 29-47.
- Sheremet V., Sheremet A., Generalization of Green's Formulae in Thermoelasticity. An electronic publication at *National Institute of Standards and Technology (NIST) of USA*, 2003, 4 p. (see website: <http://www.ctcms.nist.gov/php/gf/browse.php>)
- Sheremet V.D. – New Formulae for Dynamical Thermal Stresses. *Journal of Thermal Stresses*, 25, (2), 2002, USA, 30 p.
- Melnikov Yu.A. and Seremet V.D. Some new Green's functions for a circular Poisson-Kirchhoff plate, (IASCOME), 2001, Japan.
- Melnikov Yu.A. and Sheremet V.D. – Some new results on the bending of circular plate subject to a transverse point force *Mathematics and Mechanics of Solids*, Vol.6, № 1, 2001, USA, p. 29-47.
- Sheremet, V.D. Integral equations and Green's matrices for boundary value problems in the method of influence elements in mechanics of deformable bodies. *Doctor Habilitat Thesis in Physical and Mathematical Science*. Chishinau Technical University, Moldova, 1995 (in Russian).
- Sheremet, V.D. Functional equations and general integral representations for solutions of boundary problems in the theory of elasticity, *Dep. VINII*, N904-B89, 1989- 47p. (in Russian).
- Seremet, V.D. Fundamental solutions of some problems in the theory of elasticity, *Izv. Vuzov, Matematika*, 1988, N II, p.85-88, Kazani, USSR (in Russian)
- Seremet V.D. To the solution of the spatial Problem in the Theory of Elasticity by the method of Harmonic Integral Equations.:*The Second USSR Conference on the Theory of Elasticity*, 1984, p.296,Tbilisi, GEORGIA.
- Seremet, V.D. Constructing the function of a source for a mixed problem for the elastic octant. In the book *Quality methods in the theory of differential equations – Mathematical Researches of Academy of Science of Moldova - Kishinau.*, 1984, nr.77, p.162-167, Moldova (in Russian).
- Seremet V.D. Constructing Green's tensor in the theory of elasticity. Reports of Scientific and Research Seminar of Moscow University, Department of Theory of Elasticity at Moscow State University by M.V.Lomonosov. *Vestnik MGU, Serial, Matematika, Mehanika*, 1984, N2, p.94, Moscow, USSR. (in Russian).
- Seremet V.D. Constructing and application of Green's tensors in mechanics of rigid deformed body. *Structural Mechanics and Constructional Analysis*, 1983 N3, p.81, Moscow, USSR.
- Seremet V.D. Equilibrium of the elastic octant loaded with the concentrated force. *Dep. at the Izv. of the Academy of Sciences of the Armenian SSR. Mechanics*, 1983, p.2-12, Erevan, Armenia, USSR.

Selected International Conferences:

- Victor Seremet, Ion Cretu, Dumitru Seremet: Explicit thermal stresses within a thermoelastic half-strip and their graphical presentation using Maple - 15 Soft. *Proc. of the Third Conference of Mathematical Society of Moldova IMCS-50 (with international participation)*, Chişinău, Republic of Moldova, 19-23 August, 2014, p. 410-41

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- Victor Seremet, Guy Bonnet and Tatiana Speianu: Influence functions and integral formulae for spherical thermoelastic bodies. Proc. of *The XXII International Congress of Theoretical and Applied Mechanics, ICTAM2008*, Adelaide University, Australia, 24-30 August, 2008, 2 p.
- Victor Seremet, Guy Bonnet and Tatiana Speianu: New results in construction of the Green's matrices in spherical coordinates. Proc. of *The Inaug. Internat. Conf. of the Engineering Mechanics Institute-EM08*, University of Minnesota, USA, May 18-21, 2008, 7 p.
- Sheremet Victor, Bonnet Guy & Tatiana Speianu, *The \otimes_G -convolution method for Green's integral formulas derivation*, ESMC2009, 2009, 2 p.
- Seremet V. D., Bonnet Guy & Korneev V. M., *A method to derive Green's functions and Poisson's integral formulas in thermoelasticity*, International Conference: „Modern problems of Applied Mathematics, Informatics and Mechanics”, Voronej State University, Russia 2009, 5 pages, (in Russian)
- Seremet V., Seremet A., *Integral Solutions in Spherical Co-ordinates for Elastic Bodies*, Proceedings of The 17 th Engineering Mechanics Conference of the American Society of Civil Engineers, June 13-16, 2004 at University of Delaware Newark, DE, USA (to appear, see web site: <http://chinacat.coastal.udel.edu/EM2004/>)
- Seremet, V. D., Ioana Vlad, A. Seremet, *New Influence Functions for Thermoelastic Spherical Shells*, Proceedings of the V-th International Congress on Thermal Stresses (ICTS 2003), Virginia Tech., Blacksburg, June 8-11, 2003, USA, 4p. (see web site: <http://www.esm.vt.edu/ts2003/>)
- Şeremet, V. D., Vlad I. & Şeremet A., *New Integral Formulae in Thermoelasticity*, Proceedings of the 16th ASCE Engineering Mechanics Conference (EM 2003) , Seattle, Washington University, July 16-18, 2003, USA, 9 p. (see website: <http://www.ce.washington.edu/em03>)
- Şeremet V.D. – Some New Results in Constructing of 3D Green's Matrices. *Proceedings of the 15th ASCE Engineering Mechanics Conference (EM 2002)*, Columbia University in the City of New York, June 2-5, 2002, USA, 8 p. (see web site: <http://www.civil.columbia.edu/em2002/>)
- Seremet, V. D. – Some New Influence Functions and Integral Solutions in Theory of Thermal Stresses *Proceedings of the IV-th International Congress on Thermal Stresses*, June 8-11, 2001, p.423-427, Osaka, **Japan** (see web site: <http://www.ts2001.gr.jp/cnfprg/HTML/s2c/index.html>)

Selected reports at seminars:

- The Numerical Methods Laboratory of Institute of Mathematics of the Academy of Science of Moldova (Chisinau, 1981, 1985, 1995);
- The scientific seminar “ Mechanics of Solid Deformed Body” (Moscow Civil Engineering Institute, 1982, 1986);
- The scientific seminar of the Department of Theory of Elasticity (M.V. Lomonosov Moscow State University, Moscow, 1983);
- The scientific seminar of the Institute of Mechanics (Ukrainian Academy of Sciences, Kiev, 1983, 1995);
- The scientific seminar “The Numerical Methods in the Mechanics of Continua” (Leningrad State University; Leningrad; 1984);
- The scientific seminar “Mechanics and Control of Processes” (Leningrad Polytechnic Institute, Leningrad, 1984);
- The scientific seminar of the Mechanics and Mathematics Department (Odessa State University, Ukraine, 1986);
- The seminar of Institute of Problems in Mechanics of the Academy of Sciences of URSS (Moscow, 1986);
- The scientific seminar of the Mechanics and Mathematics Department (Dniepropetrovsk State University, Ukraine, 1988);
- The Second International Conference on the Finite and Boundary Elements (Sibiu, Romania, 1993);

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- The XVIII Congress of Romanian-American Academy of Sciences and Arts (Chishinau, Moldova, 1993),
- The First Conference on Applied and Industrial Mathematics (Oradia, Romania, 1993),
- The Fourth International Conference on the Finite and Boundary Elements (Iasi, Romania, 1997),
- The seminar of Laboratory of Mechanics, Marne la Vallee University, July 11, 2005, FRANCE,
- The seminar of WIAS, October 2008, Berlin, Germany
- The seminar at Henan University of Technology, China, April, 2014

Honours, Awards, Fellowships:

- **2013**, EUROEAST mobility project for a month Politecnico di Torino, Italy
- **2013**, Member of Assembly of Academy of Sciences of Moldova
- **2012**, Laureate of the Prize and Diploma of Academy of Science of Moldova, (section of mathematical science)
- **2012**, Who's Who in the World
- **2010**, Laureate of the Prize and Diploma of Academy of Science of Moldova, (section of mathematical science)
- **2004**, Nomination of the State Prize in Science of Republic of Moldova
- **2004**, Fellow of Wessex Institute of Technology of Great Britain
- **2004**, Laureate of the Prize and Diploma of Academy of Science of Moldova, (section of mathematical science)
- **2003**, Laureate of Prize and Diploma "The Best Professor" (State Agrarian University of Moldova)
- **2002**, Laureate of Prize and Diploma of Merit of Superior Council for Science and Technology Development of Moldova
- **2003**, Travel Grant Award of Organization Committee of ICTS 2003 (USA) to attend the V-th International Congress on Thermal Stresses (ICTS 2003), Virginia Tech., Blacksburg, June 8-11, USA,
- **2002**, Travel Grant Award of CRDF, TGP (USA) to attend the 15th ASCE Engineering Mechanics Conference (EM 2002), Columbia University in the City of New York, June 2-5, , USA
- **2001**, Travel Grants Award of SOROS FOUNDATION and GOVERNAMENT OF MOLDOVA to attend The IVth International Congress on Thermal Stresses, June 8-11, Osaka, JAPAN, 2001.

Permission to supervise Doctor and Doctor Habilitat dissertations in Solids Mechanics

(Decision nr 603 of Superior Attestation Commission of Republic of Moldova from **14.04.06**)

Last supervised dissertations:

- Marian Grigore-Doctor Habilitat in Technical Sciences; The theme of dissertation: "Contributii teoretico-experimentale la studiul fiabilitatii pieselor si imbunatatirilor utilajului agricol reconditionate cu comozite pe baza de polimeri" - Scientific Consultant;
- Tatiana Speianu - Doctor in Mathematical Sciences; The theme of dissertation: "The Construction of the Green's Matrices by using Incompressible Influence Method" - Scientific Supervisor

Supervisor of doctoral dissertations:

- Cretu Ion-The theme of the dissertation: "Integral Formulae in Uncoupled Thermoelasticity"
- Colesnic Veaceslav-The theme of the dissertation: "Constructing and Applications of Green's Matrices in Micromechanics of Defects"

Reviewer:

- Journal Engineering Analysis with Boundary Elements;
- Journal Mechanics of Solids (British Royal Society);
- Journal Mechanics of Advances Materials and Structures;
- Transilvian Journal of Mechanics and Mathematics and other journals;
- Journal of Thermal Stresses;

- Cambridge Journal of Mechanics etc.

Other activities:

- Member of ASCE, USA;
- Member of EUROMECH;
- Member of Editorial Board of Transilvian Journal of Mechanics and Mathematics;
- Member of the Society of Engineers assisted by Computers of Romania;
- Member of Scientific Council for defending Ph.D and Dr. Habilitat dissertations on specialization “Solid Mechanics”;
- Member of Senate of the State Agrarian University of Moldova;
- Member of Faculty Scientific Committee of the State Agrarian University of Moldova.

Teaching interest:

Elaboration of new courses and of teaching and methodical activities:

- Elaboration and teaching of a new course on Green’s functions constructing for ordinary differential equations and their application for linear elastic beams
- Elaboration and teaching of a new course on Green’s functions and matrices constructing for 2D differential equations and their application for linear elastic plates and shells
- Elaboration and teaching of a new course on Green’s functions and matrices constructing for 3D Lamé’s differential equations and their application for linear elastic massive structures
- Elaboration and teaching of a new course on Green’s functions constructing for 2D and 3D differential equations in uncoupled and coupled thermo elasticity
- Elaboration and teaching of a new course on Influence Element Method and its applications

These courses will contain a lot of examples of how to derive the Green’s functions and matrices for different canonical domains of Cartesian, polar, cylindrical, spherical and other systems of orthogonal coordinates. They will be recommended to undergraduate, graduate, doctoral and postdoctoral students.

Recent elaborated of the curricula for following subjects: Theoretical Mechanics, Strength of Materials, Structural Mechanics, Engineering Constructions, Geotechnics and Foundations, Materials of Construction.