

## TOMA ALBU: CURRICULUM VITAE

### PERSONAL RECORD

*Full Name:* TOMA ALBU

*Date of Birth:* July 13, 1943

*Place of Birth:* Petroșani, district Hunedoara, Romania

*Nationality:* Romanian

*Citizenship:* Romanian

*Languages:* English, French, German, Hungarian, Italian, Romanian, Russian, Turkish

*Current Business and Mailing Address:*

Simion Stoilow Institute of Mathematics of the Romanian Academy

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### EDUCATION

1966 Diplomat (M.Sc.), Faculty of Mathematics of Bucharest University, with the Thesis “Basic Notions in the Theory of Preschemes” under the supervision of Professor Gh. Galbură

1971 Doctor in Mathematics (Ph.D.), Bucharest University, with the Thesis “On Some Classes of Modules” under the supervision of Professor I. Bucur

### ACADEMIC POSITIONS

1966–1979 Assistant Professor, Bucharest University, Faculty of Mathematics

1979–1990 Senior Lecturer, Bucharest University, Faculty of Mathematics

1990–1993 Associate Professor, Bucharest University, Faculty of Mathematics

1993–1997 Full Professor, Bucharest University, Faculty of Mathematics

1997–1998 Visiting Professor, University of Wisconsin–Milwaukee (USA)

1998–1999 Visiting Professor, The Ohio State University, Columbus (USA) and University of California, Santa Barbara (USA)

1999–2001 Full Professor, Bucharest University, Faculty of Mathematics

2001–2003 Full Professor, Atilim University, Ankara (Turkey)

2003–2007 Full Professor, Koç University, Istanbul (Turkey)

2002–present Senior Researcher, Simion Stoilow Institute of Mathematics of the Romanian Academy

## TEACHING ACTIVITIES

Courses in College Algebra, Geometry, Precalculus, Calculus, Calculus for Social and Life Sciences, Multivariable Calculus and Linear Algebra, Elements of Finite Mathematics and Calculus, Discrete Mathematics and Combinatorics, Linear Algebra, General Algebra, Abstract Algebra, Applied Abstract Algebra, Group Theory, Commutative Algebra, Theory of Modules and Rings, Homological Algebra, Abelian Categories, Representation Theory of Finite Groups, Representation Theory of Artin Algebras, Lie Algebras, Number Theory, Topics in Galois and Cogalois Theory, Topics in Lattice Theory with Applications to Rings, Modules, and Categories, since 1966 until the present

## FIELDS OF RESEARCH

Algebra (Ring Theory, Module Theory, Field Theory, Algebraic Theory of Lattices, Algebraic Number Theory)

SHORT DESCRIPTION OF RESULTS AND CITATIONS (the numbers in the braces refer to the list  $B$  of my Scientific Papers)

- Introduction and study of monotone maps between arbitrary topological spaces, cf. [1].
- A study of some geometrical properties of geodesics on varieties obtained by glueing two Riemannian  $n$ -dimensional spaces, cf. [2].
- A study of the cohomology of adels in finite Galois extensions of global fields, including an adelic version of the Additive Hilbert's Theorem 90, cf. [3].
- Characterizations of some classes of commutative rings, including Dedekind domains, uniserial rings, general ZPI rings and restricted quasi-Frobenius rings by the structure of Artinian modules and injective modules over these rings, cf. [4], [5], [10], [13].
- Decomposition theorems for simple torsion modules in Dickson's sense, cf. [6], [7], [8], [9], [11], [12].
- An investigation of arithmetical modules (known also as distributive modules) over commutative rings, cf. [14], [17].
- A study of the Gabriel dimension of modules, cf. [15], [18], [32].
- A characterization of finite simple extensions of commutative Noetherian regular domains, cf. [24].
- A systematic study of finiteness conditions for modules relative to Gabriel topologies, started in [19], [20] and continued in [16], [21], [23], [25], [33], [35], [36], [40], [103], as well as in the joint monograph with C. Năstăsescu, *Relative Finiteness in Module Theory*, Marcel Dekker, Inc., New York, 1984.
- Initiation of the investigation of local cohomology and Cousin complex via torsion theories, cf. [22], [26], [27], [28].
- An investigation of infinite group-graded rings, smash product and localization, cf. [37], [38], [39].
- Introduction and study of Gabriel dimension of arbitrary posets, cf. [30], [31].
- A study of chain conditions in modular lattices, cf. [29], [34], [42], [89].
- Introduction and study of the concepts of Kummer field extension with few roots of unity, Kneser field extension, and  $G$ -Cogalois field extension, with applications to algebraic number fields, graded algebras, and Hopf algebras, started in [41], [43] and continued in [44], [45], [49], [50], [55], [65], [70], [71], [72], [73], [74], [75], [76], [77], [78], [88], [92], [95], [102], as well as in my monograph *Cogalois Theory*, Marcel Dekker, Inc., New York, 2003.
- Introduction and study of the localization of modular lattices, with applications to the investigation of Krull dimension of arbitrary modular upper continuous lattices, cf. [47], [48], [51], [69], [90].

- A study of the relative dual Krull dimension of modules and its link with the relative Krull dimension of the underlying ring, cf. [46].
- A study of the relationship between the Krull dimension and the dual Krull dimension of a ring, cf. [57].
- A study of the noncommutative  $M$ -adic completion and of some topological aspects of the category  $\sigma_{[R]M}$  of  $M$ -subgenerated modules, cf. [53].
- Introduction and study of the concept of Kasch module, cf. [52].
- Introduction and study of the concepts of right global Krull dimension and dual right global Krull dimension of arbitrary rings, and in particular of valuation rings, cf. [56], [59].
- Introduction of the concepts of classe of posets (co)generated by a poset, and study of their global (dual) Krull dimension, cf. [54].
- A study of generalized deviation of posets and modular lattices, with application to generalized Krull dimensions of rings and modules, cf. [58], [60], [61], [63], [67].
- A study of rings having Krull dimension relative to a torsion theory, cf. [62], [68].
- Various Krull-like dimension extensions of a recent result of C. Faith concerning the ACC on subdirectly irreducible submodules of a module, cf. [64], [82], [90].
- Introduction and study of the localization of  $\Gamma$ -deviation, cf. [66].
- A study of quartic algebraic number fields having only two subfields, cf. [79].
- Extensions to upper continuous modular lattices of several results on QFD modules due to V. Camillo, with applications to Grothendieck categories and torsion theories, cf. [80].
- A proof via basic facts on divisible Abelian groups of an intriguing group isomorphism between the nonzero complex numbers and the unit circle, cf. [81].
- Introduction and study of an Abstract Cogalois Theory for arbitrary profinite groups, cf. [83], [84].
- Construction of an indecomposable non-locally finitely generated Grothendieck category with simple objects, cf. [85].
- A study of completely irreducible meet decompositions in upper continuous modular lattices, with applications Grothendieck categories and torsion theories, cf. [86], [91].
- Extensions from ideals to modules over commutative rings and even to upper continuous modular lattices of some recent results due to L. Fuchs, W. Heinzer, B. Olberding concerning decompositions of ideals in arbitrary commutative rings as (irredundant, unique) intersections of primal or completely irreducible ideals, cf. [87], [93].
- Introduction and study of the concept of a CC lattice as a latticial counterpart of the concept of a CS module, of the conditions  $(C_i)$ ,  $i = 1, 2, 3, 11, 12$ , on modular lattices, and an extension of the Osofsky-Smith Theorem from modules to modular lattices, with applications to Grothendieck categories and torsion theories, cf. [94], [97], [99], [100].
- Introduction and study of the concept of linear morphism of lattices, linear injective lattice and linear injective hull of a lattice, cf. [96].
- Introduction and study of the latticial concept of preradical, cf. [98], [101].

The papers from my List of Publications, as well as the joint monograph *Relative Finiteness in Module Theory*, Marcel Dekker, 1984, have been cited by more than 230 authors from all over the world in more than 550 citations. This joint monograph is a basic reference for specialists working in the field of finiteness conditions on modules with respect to hereditary torsion theories.

Here is the name of some of these authors: C. Faith, J.S. Golan, R. Wisbauer, M.L. Teply, T.S. Shores, A. Orsatti, B. Stenström, W. Narkiewicz, C. Menini, M. Harada, R. Gilmer, E.R. Puczyłowski, A. Verschoren, J. L. Garcia Hernandez, G. Abrams, A. Facchini, J. Haefner, B. Lemonnier, J.L. Gomez Pardo, M. Saorin, B. Torrecillas, F. Van Oystaeyen, J. Raynaud, K.H. Ulbrich, S.M. Khuri, L. Bican, D.E. Dobbs, etc. A selection of these citations is the following:

- G. ABRAMS and C. MENINI, “*Categorical equivalences and realization theorems*”, J. Pure Appl. Algebra **113** (1996), 107-120.

- J.L. BUESO, B. TORRECILLAS and A. VERSCHOREN, “*Local Cohomology and Localization*”, Pitman, Longman Scientific & Technical, Essex, 1989.
- C. FAITH, “*Injective Modules and Injective Quotient Rings*”, Marcel Dekker, New York and Basel, 1982.
- J.S. GOLAN, “*Localization of Noncommutative Rings*”, Marcel Dekker, New York, 1975.
- J.S. GOLAN, “*Torsion Theories*”, Pitman, Longman Scientific & Technical, 1986.
- J. HAEFNER, “*Graded equivalences with applications*”, *J. Algebra* **172** (1995), 385-424.
- M. HARADA, “*Factor Categories with Applications to Direct Decompositions of Modules*”, Marcel Dekker, New York, 1983.
- C. MENINI, “*Gabriel-Popescu type theorems and graded modules*”, in “*Perspective in Ring Theory*”, edited by F. Van Oystaeyen and L. Le Brujn, Kluwer, pp. 239-251 (1988).
- W. NARKIEWICZ, “*Elementary and Analytic Theory of Algebraic Numbers*”, Second Edition, Springer-Verlag PWN – Polish Scientific Publishers, Warszawa, 1990.
- T.S. SHORES and W.J. LEWIS, “*Serial modules and endomorphism rings*”, *Duke Math. J.* **41** (1974), 889-909.
- B. STENSTRÖM, “*Rings of Quotients*”, Springer-Verlag, Berlin Heidelberg, 1975.
- M. L. TEPLY, “*Links, Ore sets, and classical localizations*”, *Comm. Algebra* **19** (1991), 2239-2266.
- R. WISBAUER, “*Foundations of Module and Ring Theory*”, Gordon and Breach, 1991.

#### INVITED TALKS

- “Colloque de Géométrie Différentielle Globale ”, Bucharest, July 1964
- “Category Theory Colloquium”, Bucharest, December 1967
- Sessions “Ringe, Moduln und homologische Methoden”, Oberwolfach (Germany), May 1971 and May 1972
- “Weak of Algebraic Geometry I”, Bucharest, June-July 1980
- Session “Ring Theory”, Antwerpen (Belgium), August 1983
- “National Conference on Algebra”, Romania: Bucharest, June 1983; Iassy, June 1984; Cluj-Napoca, June 1985; Timișoara, June 1986; Craiova, June 1987; Brașov, June 1988; Constanța, September 1994
- Conference “Abelian Groups and Modules”, Udine (Italy), April 1984
- Session “Modern Algebraic Methods – Combinatorial Algebra”, Tábor (Czechoslovakia), July 1985
- Workshop “Cohen-Macaulay Rings and Modules”, Iassy (Romania), October 1985
- Colloquium on Semigroups, Szeged (Hungary), August 1987
- Workshop “Semisimple Lie Algebras”, Iassy (Romania), October 1987
- International Conference on Radicals “ICOR '91”, Szekszárd (Hungary), July 1991
- Conference “Abelian Groups and Modules”, Padova (Italy), June 1994
- Workshop in Algebra, Mexico City (Mexico), November 1995 – *Main Speaker*
- Session “Ring Theory”, Second Joint AMS - SMM Meeting, Guanajuato (Mexico), November - December 1995
- Session “Ring Theory”, 23rd Ohio State–Denison Conference (USA), May 1996
- Ring Theory Conference, Miskolc (Hungary), July 1996
- Algebra Conference in Honour of Adalberto Orsatti’s 60th Birthday, Padova (Italy), June 1997
- Session “Rings and Modules”, AMS Meeting, Milwaukee, Wisconsin (USA), October 1997
- Session “Rings and Category Theory”, 3rd Joint AMS - SMM Meeting, Oaxaca (Mexico), December 1997
- Session “Ring Theory”, 24th Ohio State–Denison Conference (USA), May 1998
- Second Greek Conference in Algebra and Number Theory, Thessaloniki (Greece), June 1998 – *Main Speaker*
- Session “Ring Theory”, 4th Joint AMS - SMM Meeting, Denton, Texas (USA), May 1999

- Session “Ring Theory”, 25th Ohio State–Denison Conference (USA), May 2000
- 8th International Conference on Discrete Mathematics, Dortmund (Germany), July 2000
- Conference “Bilkent Algebra Day”, Bilkent University, Ankara (Turkey), January 2002
- Session “Theory of Rings and Modules”, 26th Ohio State–Denison Conference (USA), May 2002
- Conference “Antalya Algebra Days IV”, Antalya (Turkey), May 2002
- Conference “Gazi Algebra Day”, Gazi University, Ankara (Turkey), April 2003
- Conference “Antalya Algebra Days V”, Antalya (Turkey), May - June 2003
- Session “Ring Theory and Related Topics”, First International Joint AMS – RSME Meeting, Sevilla (Spain), June 2003
- Conference “Antalya Algebra Days VI”, Antalya (Turkey), May 2004
- Session “Theory of Rings and Modules”, 27th Ohio State–Denison Conference (USA), June 2004
- Conference “Antalya Algebra Days VII”, Antalya (Turkey), May 2005
- Session “Modules and Comodules”, Second Joint AMS – DMV – ÖMG Meeting, Mainz (Germany), June 2005
- Conference “Algebras and Coalgebras - Tools for Geometry, Physics and Computer Science”, Cairo (Egypt), March 2006
- The 6th Congress of Romanian Mathematicians, Bucharest (Romania), June - July 2007
- Session “Theory of Rings and Modules”, 29th Ohio State–Denison Conference (USA), May 2008
- Conference on Algebra and its Applications in Honor of 70th Birthday of S.K. Jain, Ohio University, Athens (USA), June 2008
- “International Conference on Ring and Module Theory”, Hacettepe University, Ankara (Turkey), August 2008 – *Main Speaker*
- “Rings and Modules in Honour of Patrick F. Smith’s 65th Birthday”, Lisboa (Portugal), September 2008 – *Main Speaker*
- The 17th Conference on Applied and Industrial Mathematics, “Mircea cel Bătrân” Naval Academy, Constanța (Romania), September 2009 – *Main Speaker*
- International Conference “Fundamental Structures of Algebra - in Honour of Șerban Basarab’s 70th Birthday”, Ovidius University, Constanța (Romania), April 2010 – *Main Speaker*
- The 6th China-Japan-Korea International Conference on Ring Theory, Kyung Hee University, Suwon (South Korea) June-July 2011 – *Plenary Speaker*
- The 7th Congress of Romanian Mathematicians, Bucharest (Romania), June - July 2011
- Workshop “A New Approach in Theoretical and Applied Methods in Algebra and Analysis”, Ovidius University, Constanța (Romania), April 2013 – *Main Speaker*
- “Rings, Categories and Hopf Algebras”, a workshop dedicated to the 70th birthday of Constantin Năstăsescu, Bucharest University, Bucharest (Romania), May 2013 – *Main Speaker*
- The International Workshop on Matrix Theory and Ring Theory, Southeast University, Nanjing (China), July 2013 – *Main Speaker*
- Anniversary Conference, Faculty of Sciences - 150 years, Bucharest University, Bucharest, August-September 2013
- “XXI Amitsur Symposium”, Ramat-Gan (Israel), June 2014 – *Main Speaker*
- Conference “Groups, Rings, and Group Rings 2014”, Ubatuba, Sao Paulo (Brazil), July 2014 – *Main Speaker*
- Conférence de Géométrie, l’Université de Haute Alsace, Mulhouse (France), September 2014

## CONTRIBUTED TALKS

- Second Gauss Symposium, München (Germany), August 1993
- Mid-Atlantic Algebra Conference, North Carolina State University, Raleigh (USA), March 1996
- Second European Congress of Mathematics, Budapest (Hungary), July 1996 – *Poster*
- International Congress of Mathematicians, Berlin (Germany), August 1998
- International Conference on Representation Theory of Algebras – ICRTA 8.5, Bielefeld (Germany), September 1998
- International Conference on Algebra and its Applications, Ohio University, Athens (USA), March 1999

## INVITED LECTURES

- *Germany*: University of München (1973, 1991), University of Düsseldorf (1990, 2001), University of Hamburg (1990), University of Stuttgart (1996), University of Bielefeld (1996, 1998), University of Dortmund (2001) and University of Hagen (2001)
- *Italy*: University of Ferrara (1984, 1994) and University of Udine (1994)
- *Greece*: University of Athens and University of Ioannina (1987)
- *Japan*: Osaka City University, Kinki University (Osaka), Tohoku Gakuin University (Sendai) and Shizuoka University (1990)
- *Israel*: Ben Gurion University (Beer-Sheva) (1991, 2014) and Haifa University (1991)
- *United Kingdom*: University of Glasgow (1991, 1994, 1996, 2007), University of Edinburgh (1994), University of Sheffield (1994) and University of Exeter (1996)
- *Belgium*: University of Antwerpen UIA (1996)
- *France* : Institut Henri Poincaré, Paris (1996)
- *Canada*: McMaster University (Hamilton) (1996), Carleton University (Ottawa) (1996), Mount Allison University (Sackville) (1996), Dalhousie University (Halifax) (1996), Royal Military College of Canada (Kingston) (1996, 1998), University of Manitoba (Winnipeg) (1998), and Memorial University of Newfoundland (St. John's) (2011)
- *USA*: Ohio University (Athens) (1996), Ohio State University (Lima) (1996), Ohio State University (Columbus) (1996, 1998, 1999, 2000), University of Florida (Gainesville) (1996), CUNY – Graduate School and University Center (New York) (1996), CUNY – Queens College, Flushing, New York (1998), University of Wisconsin–Milwaukee (1997, 1998, 1999), University of Wisconsin–Madison (1998), University of Kansas (Lawrence) (1998), Rutgers University (New Brunswick) (1998) and University of California at Santa Barbara (1998, 1999)
- *Turkey*: Bilkent University (Ankara) (2001), Hacettepe University (Ankara) (2001), Middle East Technical University (Ankara) (2002), Doğuş University (Istanbul) (2002), Atılım University (Ankara) (2003), Koç University (Istanbul) (2003, 2004), Bilgi University (Istanbul) (2003), Boğazici University (Istanbul) (2003), Sabanci University (Istanbul) (2004)
- *North Cyprus*: Eastern Mediterranean University (Gazimağosa) (2001)
- *Kuwait*: Kuwait University (Kuwait City) (2009)
- *South Korea*: Dong-A University (Busan) (2011)
- *China*: Southeast University, Nanjing (2013), Nanjing University, Nanjing (2013)
- *Brazil*: Mini-course at the XXIII *Escola de Álgebra*, Universidade Estadual de Maringá, Maringá, Paraná, (2014)

## VISITING PROFESSOR POSITIONS

- *Japan*: Osaka City University (September - October 1990)
- *Italy*: Padova University (April - May 1994)
- *USA*: University of Wisconsin–Milwaukee (August 1997 - June 1998)
- *USA*: The Ohio State University, Columbus (September 1998 - March 1999)
- *USA*: University of California, Santa Barbara (April 1999 - July 1999)

## VISITING SCIENTIST POSITIONS

- *Germany*: University of Düsseldorf (May 1990, July - August 1993, July 2000, June 2005), University of Bielefeld (July - August 1998) and University of Dortmund (July 2000)
- *Israel*: Ben Gurion University, Beer-Sheva (November 1991, June 2014) and Haifa University (November - December 1991)
- *United Kingdom*: University of Glasgow (January - April 1994, January 2007) and University of Exeter (November 1996)
- *Canada*: McMaster University, Hamilton (January - February 1996), Carleton University, Ottawa (March 1996), University of Manitoba, Winnipeg (March 1998), Royal Military College of Canada, Kingston (March 1998), and Memorial University of Newfoundland, St. John's (September 2011)
- *USA*: Ohio State University, Lima (March 1996) and Ohio University, Athens (March - April 1996)
- *Turkey*: Hacettepe University, Ankara (August - September 2008, May 2009)
- *Kuwait*: Kuwait University, Kuwait City (November 2009)
- *South Korea*: Busan National University, Busan (June 2011)
- *China*: Southeast University, Nanjing (July 2013)

## HUMBOLDT RESEARCH FELLOWSHIP (*period, host institute, and host professor*)

- Jan. 1973 – Dec. 1973, University of München, Prof. Dr. F. Kasch
- Mar. 1991 – Sep. 1991, University of Düsseldorf, Prof. Dr. R. Wisbauer
- Jun. 1994 – Jul. 1994, University of Düsseldorf, Prof. Dr. R. Wisbauer
- May 1996 – Jun. 1996, University of Düsseldorf, Prof. Dr. R. Wisbauer
- Apr. 2001 – Jun. 2001, University of Düsseldorf, Prof. Dr. R. Wisbauer

## AWARDS

- First Prize, National Mathematics Competition for Students of Universities, Bucharest, 1965
- Simion Stoilow Prize for Mathematics of the Romanian Academy in 1984
- Excellence Prize for 2008 of the Romanian Mathematical Society (Societatea de Științe Matematice din România)

## MEMBERSHIPS

- American Mathematical Society, since 1974
- Societatea de Științe Matematice din România, since 1966
- Societatea Matematicienilor din România, since 1990

## EDITORIAL POSITIONS

- Editorial Board Member of the Romanian journal for elementary mathematics *Gazeta Matematică* (founded 1895) since 1980
- Editorial Board Member of the *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie* (founded 1892) since 2004
- Editorial Board Member of the *Communications in Algebra* (founded 1972), Taylor & Francis Group, Philadelphia (former Marcel Dekker, Inc., New York), since 2005
- Editorial Board Member of the *Analele Științifice ale Universității Ovidius Constanța* (founded 1993), since 2012

## GUIDANCE OF M.SC. AND PH.D. STUDENTS

Supervisor of over 60 M.Sc. students at the Bucharest University since 1972, and of 2 students at the Koç University since 2003. Here is a list of some of the most successful such students:

C. Canini, *The Kronecker–Weber Theorem*, 1976 (died 1992, Senior Lecturer, Technical University Bucharest)

Ş. Raianu, *Local Cohomology, Cousin Complex, and Torsion Theories*, 1981 (Full Professor, California State University at San Dominguez, USA)

T. Dumitrescu, *Going–Down*, 1983 (Associate Professor, Bucharest University)

F. Nicolae, *Kummer, Kneser, and Cogalois Field Extensions*, 1993 (Max Planck Arbeitsgruppe “Algebraische Geometrie und Zahlentheorie”, Berlin)

M. Iosif, *Dimensions of Posets*, 1994 (Senior Lecturer, Bucharest University)

H. Boylan, *Cogalois Theory versus Galois Theory*, 2005 (Ph. D. Student, Universität Siegen, Germany)

Since 1990, supervisor of over 10 Ph.D. students at the Bucharest University and Simion Stoilow Institute of Mathematics of the Romanian Academy including:

T. Dumitrescu, *Local Algebra in Characteristic  $p$* , 1995

M. Ţena, *Radical,  $G$ -Kneser, and  $G$ -Cogalois extensions*, 2000

Al. Gica, *Analytic Methods in Number Theory*, 2001

M. Iosif, *Krull Dimension*, 2003

G. Mincu, *Functions and numbers with role in the study of the distribution of prime numbers: inequalities and applications*, 2009

V. Copil, *Properties of sequences whose terms possess a canonical special decomposition - Applications to Analytic Number Theory*, 2010

N. Minculete, *Contributions to the study of analytical properties of arithmetical functions - The use of  $e$ -divisors*, 2012

A.-B. Apostol, *Contributions to the study of arithmetical functions*, 2014

## UNIVERSITY SERVICE

Member of the Professorial Council of the Faculty of Mathematics of Bucharest University (1990-1996)

Member of the Senate of Bucharest University (1992-1996)

Scientific Secretary of the Professorial Council and member of the Conductorship Committee of the Faculty of Mathematics of Bucharest University (1992-1996)

Undergraduate Director, Department of Mathematics, Atilim University, 2001-2003

## OTHER ACTIVITIES

Member of the National Committee for the National and International Mathematical Olympiads (1982-1986) and teacher-trainer of the Romanian team for the International Mathematical Olympiads and Balkan Mathematical Olympiads (1982-1986)

Director of the Romanian team participating to the first Balkan Mathematical Olympiad (Athens, Greece, 1984), the second Balkan Mathematical Olympiad (Sofia, Bulgaria, 1985) and the third Balkan Mathematical Olympiad (Bucharest, Romania 1986)

Co-organizer of the First International Conference on Ring Theory, Bucharest (Romania), July 1989, of the International Conference “Algebraic Geometry, Commutative Algebra and Computer Algebra”, Constanța (Romania), September 1996, of the “International Conference on Ring and Module Theory”, Hacettepe University, Ankara (Turkey), August 2008, of the International Conference “Fundamental Structures of Algebra - in Honour of Şerban Basarab’s 70th Birthday”, Ovidius University, Constanța, April 2010, mainly sponsored by the Alexander von Humboldt Foundation as a Humboldt-Kolleg, of the XVI-th Annual Meeting of the Romanian Mathematical Society (SSMR), Ploieşti (Romania), October 2012, and of the Special Session “Noncommutative Ring Theory and Applications” of the First Joint Meeting of the American Mathematical Society

and Romanian Mathematical Society in partnership with the Simion Stoilow Institute of Mathematics of the Romanian Academy, Alba Iulia (Romania), June 2013

Referee for *Journal of Algebra*, *Journal of Pure and Applied Algebra*, *Communications in Algebra*, *Israel Journal of Mathematics*, *Journal of Algebra and its Applications*, *Rendiconti del Seminario Matematico della Università di Padova*, *Glasgow Mathematical Journal*, *Mathematica Scandinavica*, *Journal of Symbolic Computation*, *Algebra Colloquium*, *Missouri Journal of Mathematical Sciences*, *Mathematical Journal of Okayama University*, *Italian Journal of Pure and Applied Mathematics*, *Central European Journal of Mathematics*, *Turkish Journal of Mathematics*, *Bulletin of the Iranian Mathematical Society*, *Kuwait Journal of Science*, *Revue Roumaine des Mathématiques Pures et Appliquées*, *Mathematical Reports*, *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie*, *Contemporary Mathematics (American Mathematical Society)*, *Birkhäuser*, *Kluwer*, and *de Gruyter*

Reviewer for *Mathematical Reviews* since 1971, and *Zentralblatt für Mathematik* since 1977

Project director of the Faculty of Mathematics of the Bucharest University for the Pure Mathematics part of Grant *TEMPUS S-JEP* 09094–95, 1995 – 1997, awarded by the European Community

Director of Grant *D-7* awarded by the Consiliul Național al Cercetării Științifice din Învățământul Superior (CNCSIS), România, and the World Bank, 2000 – 2001

Director of Grant ID-PCE 1190/2008 awarded by the Consiliul Național al Cercetării Științifice în Învățământul Superior (CNCSIS), România, 2009-2011

Member of the Scientific Council of the Simion Stoilow Institute of Mathematics of the Romanian Academy, 2009-2012

Vice President of the SSMR (Romanian Mathematical Society), since 2012

Chairman of one of the sessions of the Conference “Methoden in Ring Theorie”, Oberwolfach, Germany, July 1993, of one of the sessions of the Conference “Ring Theory”, Second AMS-SMM Joint Meeting, Guanajuato, Mexico, November-December 1995, of one of the sessions of the Conference “Ring Theory”, Miskolc, Hungary, July 1996, of one of the sessions of the Conference “Rings and Category Theory”, Third AMS-SMM Joint Meeting, Oaxaca, Mexico, December 1997, of one of the sessions of the 24th Ohio State-Denison “Ring Theory” Conference, Granville, USA, May 1998, of one of the sessions of the Algebra section of the “International Congress of Mathematicians”, Berlin, Germany, August 1998, of one of the plenary sessions of the “International Conference on Algebra and its Applications”, Athens, Ohio, USA, March 1999, of one of the sessions of the 25th Ohio State-Denison “Ring Theory” Conference, Columbus, USA, May 2000, of one of the sessions of the “Bilkent Algebra Day” Conference, Ankara, Turkey, January 2002, of one of the sessions of the 26th Ohio State-Denison “Ring Theory” Conference, Granville, USA, May 2002, of one of the sessions of the “Antalya Algebra Days V” Conference, Antalya, Turkey, May 2003, of one of the sessions of the “Antalya Algebra Days VI” Conference, Antalya, Turkey, May 2004, of one of the sessions of the 27th Ohio State-Denison “Ring Theory” Conference, Columbus, USA, June 2004, of one of the sessions of the “Modules and Comodules” Conference, Second Joint AMS-DMV-ÖMG Meeting, Mainz (Germany), June 2005, of one of the sessions of “The 6th Congress of Romanian Mathematicians”, Bucharest (Romania), June-July 2007, of one of the sessions of the 29th Ohio State-Denison “Ring Theory” Conference, Columbus, USA, May 2008, of one of the plenary sessions of the “Conference on Algebra and its Applications in Honor of 70th Birthday of S.K. Jain”, Athens, Ohio, USA, June 2008, of one of the sessions of “The 6th China-Japan-Korea International Conference on Ring Theory”, Kyung Hee University, Suwon, South Korea, June-July 2011, of one of the sessions of “The 7th Congress of Romanian Mathematicians”, Brașov (Romania), June - July 2011, of one of the sessions of “The International Workshop on Matrix Theory and Ring Theory”, Southeast University, Nanjing (China), July 2013, and of one of the sessions of “The Anniversary Conference, Faculty of Sciences - 150 years”, Bucharest University, Bucharest, August-September 2013