

# Curriculum Vitae

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## UNIVERSITATEA OVIDIUS CONSTANȚA

Bd. Mamaia nr. 124

900527 Constanța

Tel.: 0241 - 618372, Fax: 0241- 619040

## Prof.univ.dr. Stefanescu Mirela

### DATE PERSONALE

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Tel : 0722-582921

E-mail: mirelast@univ-ovidius.ro

### FORMARE UNIVERSITARĂ ȘI POSTUNIVERSITARĂ

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*Facultatea de Matematica, Universitatea « AL.I.Cuza » Iasi*

Doctorat in matematici, idem

### EXPERIENȚĂ PROFESIONALĂ

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1964-1966 preparator Facultatea de Matematica, Univ. Al.I.Cuza, Iasi

1966-1968 asistent, idem

1968-1990 lector idem

1990-1993, conferentiar, idem

1993-2008, profesor, Facultatea de Matematica si Informatica, Univ. Ovidius, Constanta

### POZITIA LA UNIVERSITATEA OVIDIUS

#### **Cursuri/ seminarii predate la Universitatea Ovidius:**

Algebra

Bazele matematice ale informaticii

Teoria grupurilor

Reprezentari de grupuri si algebre

Algebre Lie

Algebre neasociative

Teoria numerelor

Istoria matematicii

Curriculum si evaluare la matematica

Capitole speciale de algebra

### LISTA DE PUBLICATII

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*1 °. Teza de doctorat*

**Titlul Tezei: Contributii la studiul sistemelor algebrice**

Sustinuta în 1977

Conducator prof.dr.doc. Ion Creanga

Comisia : Presedinte prof.dr. Radu Miron

Membrii: prof.dr.doc. Al. Climescu; prof.dr. Tudora Luchian; prof. Dr. Doc. Ion Creanga;  
conf.dr. Radu Nicolae

**2 °. Cărți publicate și capitole în cărți (C1,...Cn) și note de curs/seminar (NC1,...NCn) prin care se aduc contribuții la asigurarea și perfecționarea activităților didactice/profesionale în raport cu natura criteriilor de evaluare 1 - Activitatea didactica - și 3 – Contribuția științifică**

***Cărți și capitole în cărți:***

**CURSURI UNIVERSITARE PUBLICATE**

1. *Lectii de istoria matematicii*, Ex Ponto, Constanta, 2004. (185 pag.) ISBN 973-644-285-3.
2. *Teoria lui Galois*, Ex Ponto, Constanta, 2002 ( 200 pp) ISBN 973-8036-32-1.
3. *Algebra*, All Educational, 1998 (colectiv), 230 pp. (70 pag.).
4. *Probleme de algebra. Inele si module*, Editura Univ. Al.I.Cuza, Iasi, 1984, 161 pp. (with M. Gutan)
5. *Algebra pentru perfectionarea profesorilor*, Editura Didactica si Pedagogica, Bucuresti, 1983 (colectiv), 230 pp (70 pag.).
6. *Probleme de algebra*, Univ. Printing House, Iasi, 1979; 209 pp. + XXI (with I. Creanga).

**MONOGRAFII**

7. *Algebre Jordan, o introiducere* (cu E. Asadurian), Ed. Niculescu, 2001. ISBN 973-568-460-8
8. *Algebre Lie, o introducere*, (cu Camelia Ciobanu), Ed. Academiei Navale, 2000, ISBN, 973-99564-4-0.
9. *Algebraic Hyperstructures and Applications*, Hadronic Press, Palm Harbor, 1994, 370 pp. MR 95e: 20001; Zbl 0865. 00042.
10. *Introducere in teoria grupurilor*, Publishing House of „Al.I. Cuza” University, 1992, 212 pp.
11. *Preradicals and torsion theories*, Publishing House of „Al.I. Cuza” University, 1986, 158 pp. (with M. Gutan, C. Gutan, Gh. Radu).
12. *Correspondences between algebraic systems* (in Romanian), Ph. D. Thesis, Univ. “Al. I. Cuza”, Iasi, 1977, 205 pp.).

**3°. Articole/studii publicate în reviste de specialitate de circulație internațională recunoscute sau în reviste din țară recunoscute de către CNCSIS. (R1...Rn)**, prin care se aduc contribuții la dezvoltarea domeniului în raport cu natura criteriului de evaluare 3 : Contribuția științifică.

**LIST OF PUBLICATIONS (Mirela Stefanescu)**

**I. Papers**

1. *Some applications of Peirce decompositions in generalized rings and algebras*, Italian J. Pure Appl. Math., **25**(2008), to appear (with C. Flaut)

2. *Constructions of hyperfields*, Studii si Cerc. St., seria Matematica, Univ. Bacau, Suppl. , 16(2007),563-571. MR2318975
3. *Some interpretations of hypergroups*, Bull. Math. Soc. Sci. Math Roumanie, 49(97) (2006), no 1, 99-104. Zbl 1109.200060 (T.Vougiouklis); recenzat in MR si Zbl.M.
4. *On the fuzzy grade of the hypergroups*, Fuzzy Sets and Systems (submitted and accepted 2007 ), (with Irina Cristea) ; doi:10.1016/j.fss.2007.10.014 (ISI)
5. *Binary relations and reduced hypergroups*, Discrete Math (accepted) (with Irina Cristea); doi:10.1016/j.disc.2007.07.011. (ISI)
6. *Constructions of hyperfields*, Bul. St. Univ. Bacau, Seria Matematica , Suppl. , 2007, pp.306-312 (recenzat in MR) B-CNCSIS
7. *Constructions of hyperrings and hyperfields*, in Advances in Abstract Algebra, Tip. Univ. Al I Cuza Iasi, Iasi , 2007; ISBN 973-86987-8-2; pp. 41-54.
8. *Some interpretations of hypergroups*, Bull. Math. Soc. Sci. Math Roumanie, 49(97) (2006), no 1, 99-104. Zbl 1109.200060 (T.Vougiouklis) B+ CNCSIS
9. *Nearrings, cohomology and extensions*, in "Near rings and Near fields", (Eds. H.Kiechle et al.), Springer, 2005, pp.311-319. Zbl.1079.16034 ; MR2177532.
10. *Associativity condition for some alternative algebras of degree three*, in: Proceedings of the Conf. on Appl.Diff. Geom. and general Relativity and the Workshop on Global Analysis, Diff. Geom. and Lie Algebras, Thessaloniki, 2002; Balkan Press, Bucharest, 2004; pp. 121-130 (with Cristina Flaut). Zbl 1108.17007; MR2117517.
11. *Some applications of near rings in theory of dynamical systems*, in Proc. of the 10<sup>th</sup> Symposium of Mathematics and Applications, Rom. Acad., Timisoara , 2003, pp. 318-323 (with M. Dumitru). MR2234045.
12. *On some p-algebras*, idem; pp. 196-201 (with Ciobanu, Camelia). MR 2232796.
13. *On isomorphisms of Lie algebras*, Bull. Applied&Comp. Mathematics, PAMM , PC-143, 2003, 6 pag. (with G. Iorgulescu)
14. *A QR-Factorisation Method for Least-squares Problems of Linear Inequalities with Constraints*, An. St. Univ. Ovidius, Constanta, ser. Mat., 10(2002), f.2, 109-120. (with Elena Popescu). Zbl.1059.90114; MR 2070191.
15. *Inconsistent linear systems* (Romanian),
16. *More on Morita contexts for near rings*, An. St.Univ.Ovidius, Constanta , ser.Matematica, 10(2002), fasc.2 , 87-108 (with M. Dumitru). Zbl. 1084.16508; MR 2127102.
17. *On some matrix Jordan pairs*, Bull. Applied&Comp. Mathematics, PAMM, Conf., PC-139/2002; pp. 175-180 (with E. Asadurian).
18. *Extensions of groups with non-abelian kernels*, Italian J. Pure and Applied Math., 2(2000), 51-62 (with M. Gontineac). MR 02b:20075; Zbl 0988.20039.
19. *Inconsistent Linear Systems (Romanian)*, An St Univ Ovidius Constanta, Ser.Mat., 8(2000),101-110 (with E.Popescu). MR04b:65056; Zbl.1044.90517.
20. *A pair of Jordan triple systems of Jordan pair type*, An St Univ Ovidius Constanta, Ser.Mat., 8(2000),1-4 (with E Asadurian). MR 03m:17029 ; Zbl.1037.17038.
21. *On the structure of some matrix Jordan pairs*, An.St.Univ.Ovidius, Ser. Mat., 7(1999), f. 1, 1-23 (with Eduard Asadurian). MR 02a:15005; Zbl.1066.17504.
22. *A universal multiplicative enveloping algebra for noncommutative Jordan algebras*, Bul. St. Univ. Pitesti, Ser. Mat. Inf., 3 (1999), 41-48 (with Eduard Asadurian).
23. *Near-rings in connection with non-abelian cohomology of groups*, in: Near-rings and Near-fields, Proc. of Conf. in Hamburg, 1995 (ed. M.J. Thomsen), Kluwer Academic Publishers, 1997, pp. 431-435. MR 1492217; Zbl 0888.16035.
24. *Near-rings and geometry (a survey)*, in: New Frontiers in Mathematics (ed. T. Vougiouklis), Hadronic Press, 1996; pp. 201-212. Zbl. 882. 16031; MR 98g:12013.
25. *Constructions of hypergroups (a survey)*, idem, pp. 67-84. Zbl. 883.20033; MR 98e:20074.
26. *O relatie ternara definind un hipergrup* (A ternary relation defining a hypergroup), Bul. Acad. Navale "Mircea cel Batran", Constanta, 1(1996), 117-120.
27. *Cohomology and Near-rings*, An.St.Univ.Ovidius Constanta, Ser.Mat., 4 (1996), f. 2, 192-200. Zbl. 876. 16030; MR 97m: 16087.
28. *On constructions of hypergroups*, in: Contributions to General Algebra 9 (ed. G. Pilz), Verlag Holder-Pichler-Tempsky, Wien-Verlag, B.G. Teubner, Stuttgart, 1995, pp. 297-308. Zbl. 892. 20041; MR 1484450.
29. *Noncommutative cohomology and near-rings*,An.St.Univ.Ovidius Constanta, Ser. Mat., 2 (1994), 168-178. Zbl. 856. 16043; MR 96k: 16090.

30. *Ideals in Morita contexts for near-rings*, An. St. Univ. Ovidius Constanta, Ser. Mat., **1** (1993), 95-100 (with S. Kyuno). MR 95m: 16039; Zbl 0834.16047.
31. *Looking at Hypergroups*, in: "Algebraic Hyperstructures and Applications, Proc. V<sup>th</sup> Congress AHA, Iasi, 1993" (ed. Mirela Stefanescu), Hadronic Press, 1994, pp. 147-152. MR 1301572.; Zbl 0844.20058.
32. *Ternary hyperrings*, idem, pp. 215-222 (with S. Kyuno). MR 1301580; Zbl 0847.16035.
33. *On fuzzy groups*, in: Proc. Conf. on Fuzzy Systems and Applications, Trabzon, Turkey, 1992, 6 pp. (with I. Tofan).
34. *Abelian group objects in  $\mathcal{G}(H)$* , in: Proc. of AMSE Symposium on Fuzzy Sets, Geneva, 1992, 4 pp. (with I. Tofan, Gh. Radu).
35. *Near-rings and geometry*, in: Contributions to General Algebra 8, Proc. Conf. on Near rings and Near fields, Linz, Austria, 1991, (ed. G. Pilz), Verlag Holder –Pichler Tempsky, pp. 211-222 (with R. Miron). MR 95f: 16058; Zbl 0787.51008.
36. *Structure theorems for infra near rings*, idem, pp. 295-307. Zbl. 770. 16019; MR 95c: 16060.
37. *Fuzzy in Mathematics and Mathematics in Fuzziness*, in: "Fuzzy-Systems and Artificial Intelligence, CERFS & FLSI, Japan; Editura Universitatii din Iasi, 1991, pp. 11-16 (with I. Tofan).
38. *On some fuzzy algebraic structures*, idem, pp. 21-28.
39. *On planar near-rings*, Proc. National Conf. on Algebra, Brasov, 1987, pp. 55-66 (cu C. Volf). MR 91 a. 16032.
40. *A radical in the left infra-near rings*, idem, pp. 67-76. MR 91a: 16033.
41. *A ternary interpretation of the infra near rings*, in: Near-rings and Near-fields (ed. G. Betsch), Math. Series 137, North. Holland, Amsterdam, 1987, pp. 255-266. MR 88f 16049; Zbl. 615.16026.
42. *On radicals in gamma rings*, Proc. Conf. of Algebra, Cluj-Napoca, 1986, 83-89. MR 91 a. 16033; Zbl 0678.16030.
43. *Extensions of left near-rings*, An.St.Univ.Al.I.Cuza Iasi, Ser.Mat., **31** (1985), 667-669. MR 87 i 16072; Zbl. 603. 16033.
44. *Interpretari ternare ale unor generalizari ale notiunii de inel* (Ternary interpretations of some generalizations of the concept of ring), Bul. Stiintific, Institutul Pedagogic Suceava, 1984, pp. 17-21.
45. *Un radical dans un infra-anneau*, In: Actualites Mathematiques, Actes du 6-eme Congres du GML, Gauthier-Villard, Paris, 1982, pp. 267-270. Zbl. 495-16095; MR 83i: 16039.
46. *Professor Ion Creanga*, An.St.Univ.Al.I.Cuza Iasi, Ser.Mat., (N.S.) **28**(1982), no 1, 1-4. MR 84d: 01065; Zbl 0484.01006.
47. *On ordered algebraic theories*, An.St.Univ.Al.I.Cuza Iasi,Ser.Mat., **27** (1981), 5-11 (with I. Tofan, Gh. Radu). Zbl. 474. 18007; Ref. J. M. 1981, 10 A 29; MR 82j: 18011.
48. *Self-distributive infra-near rings*, Atti Accad.Naz.Lincei, (8) **68** (1980), 26-33. MR 82 m:16035; Zbl. 462. 16025.
49. *Multiplications infra-distributives sur un groupe*, Publ. Math. Debrecen, **27** (1980), 255-262. Zbl. 466. 16029; MR 82c: 16038.
50. *Semisimple infra-rings*, An.St.Univ.Al.I.Cuza Iasi,Ser.Mat., **26**(1980), 5-15.MR 81 i: 16051; Zbl. 454. 16023; Ref. J.; MR 12 (1980), 12 A, 302.
51. *On semisimple infra-near rings*, II, idem, **26** (1980), 253-259.MR 82 h: 16029; Zbl. 477. 16021.
52. *A generalization of the concept of near-rings: Infra-near rings*, idem, **25** (1979), 47-58. MR 81 e. 16032; Zbl. 419. 16024.
53. *A correspondence between a class of near-rings and a class of loops*, An. Univ. Timisoara, Ser.Mat., **16** (1978), 89-99. MR 80j: 20078. Zbl. 448. 17005.
54. *Correspondence between the class of left C-near rings and a class of loops*, Atti Accad.Naz.Lincei, (8), **64** (1978), 1 – 11. MR 80h: 20108; Ref. J. 1979, 10 A 184; Zbl. 404. 17004.
55. *Infra-near rings of affine type*, An.St.Univ.Al.I.Cuza Iasi, Ser.Mat.,**24** (1978), 5-14. MR 80b: 16030; Zbl. 394.16041.
56. *A correspondence between a class of near-rings and a class of groups*, Atti Accad. Naz. Lincei, (8), **62**(1977), 439-443. MR 58 # 11033; Zbl. 375. 17002.
57. *A correspondence between the class of left non-associative near-rings and a class of quasigroups*, An. Univ. Timisoara, **15**(1977), 149-156.MR 80 b. 20096; Zbl. 448. 17004.
58. *Near-modules over special near-rings*, An.St.Univ.Al.I.Cuza Iasi, Ser.Mat., **23** (1977), 29-32 (with R. Miron).MR 57 # 12614, Zbl. 381. 16019.
59. *On distributive near-rings with a finite number of central idempotents*, idem, **23** (1977), 235-240 (with R. Miron). MR 58 # 22184, Zbl. 379. 16017.

60. *Module necomutative peste inele cu numar finit de idempotenti centrali* (Noncommutative modules over rings with a finite number of central idempotents). *Lucrarile celei de a V-a Ser. St., Inst. Ped. Bacau*, 1976 (6 pag.).
61. *Functori* (Functors), *GMB*, **75** (1970), 3-9. MR 44 # 4064.
62. *On generalized algebras*, *An.St.Univ.Al.I.Cuza Iasi, Ser.Mat.*, **15** (1969), 132-138. MR 41 # 3355; Zbl 0197.01103. (Name: Mirela Branzei)
63. *Ce este o categorie?* (What is a category?), *G.M.B.*, **74** (1969), 441-447. MR 41 # 1823; Zbl 0186.02505. (Name: Mirela Branzei)
64. *Functions de matrice a trois dimensions*, *Mathematica, Cluj*, **9**(2) (1967), 219-224 (with C. Reischer). MR 38 # 162; Zbl 0178.03403. (Name: Mirela Branzei)
65. *Asupra matricelor tridimensionale*, *An. St. Univ. 'Al. I. Cuza'*, Iasi, **13** (1967), 29-32 (with C. Reischer). MR 36 # 3812; Zbl 0155.35404. (Name: Mirela Branzei)

### III. Editor of proceedings:

1. *Algebra-Representation Theory*, Nato Science Series, Kluwer, 2001. ISBN 0-7923-7114-3. MR1857452 (02d:00015); Zbl 0969.00049 (cu K.W. Roggenkamp)
2. *Proceedings of the Euroconference in Algebra and Representation Theory, Constantza 2000*, in *An. St. Univ. Ovidius, Constantza, ser. Matematica*, **8**(2000), fasc 1. MR 1946687; Zbl 1008.00511.
3. *Proceedings of the Conference of Mathematical Society Romania*, Idem, fasc. 2, and *Seminars in Mathematics, Miscelanea 1*, 2000. MR 1960641; MR 2005c:00019
4. *Proc.Conf. of Math. Soc Romania, Second Part*, Seminar Series in Math., *Miscelanea 1*, 2000 (ed. A. Barbulescu, M. Stefanescu). MR 2005c:00019.
5. *Proceedings of the Workshop and Meeting on Representation Theory of Groups, Algebras and Orders*, *An. St. Univ. Ovidius, Constanta*, 1995, in *An. St. Univ. Ovidius, Constanta*, vol. 4 (1996), fasc. 1,2. MR 1407526 (97d:00029) and MR 1428448 (97g: 00023); Zbl 0869.00031 and 0858.00022.
6. *Proceedings of the XI<sup>th</sup> National Conference of Algebra*, *Constantza*, in *An. St. Univ. Ovidius, Constantza*, vol. 2 (1994). MR 96j: 00017; Zbl 0853.00032.
7. *Proceedings of the Second National Conference of Algebra*, Iasi, May 1985; *Suppl. An. Univ. Al.I.Cuza*, vol. 31 (1985).
8. *Cohen-Macaulay rings and modules* (in Romanian), University Printing House, Iasi, 1986 (lectures at the Week of Algebra, Iasi, Oct. 1985).

### Detalii despre lucrari si monografii pe site-ul Zentralblat:

[www.emis.de](http://www.emis.de)

**5 °.Proiecte de cercetare – dezvoltare – inovare** pe bază de contract/grant, precum și alte lucrări de cercetare-dezvoltare (F1...Fn) prin care se aduc contribuții la dezvoltarea mediului educațional/cultural/economic/social etc., în raport cu natura criteriului de evaluare 2 : *Activitatea de cercetare.*

### Participarea in Granturi

Membru in colective de grant IMAR (1986-1989).

Membru in colective de grant 2003, si grant de excelenta 2004-2008);

Membru in colective de grant Min. Inv.la Univ. Al.I.Cuza, 1990-2004.

### Granturi obtinute si dezvoltate

Director de grant- CNCSIS - anual 1994-2001.

### Granturi internationale:

1. Grant de cercetare de la Volkswagen Stiftung, pentru organizarea unui workshop de teoria reprezentarii grupurilor si algebrelor, de la Constanta, din Septembrie 1995 ;
2. Grant international de la NATO pentru organizarea unui workshop de teoria reprezentarii algebrelor , August 2000, Constanta.
3. Grant international de la European Union pentru organizarea Euroconferintei de Algebra, din August 2000, de la Constanta.

**Burse de cercetare:**

- Bursa DAAD la Universitatea din Tübingen (1985)
- Technische Universität Wien (1991)
- Bursa Societatii de Stiinte Matematice din Japonia (1990)
- Universitatea Johannes Kepler Linz Austria (1997, 2003)
- Universitatea Pusan, Korea (1999)

## DIVERSE

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### **PREMII, DIPLOME, MEDALII, MEMBERSHIP**

**Profesor invitat:** Tübingen University (1985); Linz University (1990, 1991, 2003); Technische Universität Wien (1991); Sendai Tohoku Gakuin University, Japan (1988); Stuttgart University (1994, 2001); Università degli Studi di Udine, Italia (1993); Universitatea din Chisinau (1990); Universitatea din Pusan, Korea (1999); Universitatea din Tsukuba, Japonia (1990); Universitatea din Kiev (1997); Institutul de Matematica Euler din Sankt Petersburg (2007); etc.

**Afilieri:** SSMR, Societatea Matematicienilor Romani; ANIRO; Academia Romano-Americana (m.c.); American Mathematical Society; Balkan Society of Geometers; ROMAI; Academia Oamenilor de Stiinta.

**Membru in colective de redactie:** Analele Stiintifice ale Univ. "Ovidius", seria matematica ( Fondator al revistei; Editor sef); Mathematical Reports; ROMAI Journal.

**Recenzent la:** Zentralblatt für Mathematik, Mathematical Reviews.

**Referent la:** Analele Stiintifice Universitatea Iasi, Acta Applicandae Mathematicae, Italian Mathematical Journal, South-East Mathematical Journal, Indian Mathematical Journal, Journal Carpathian Mathematics.

**Organizator de conferinte de algebra (cu participare internationale):**

- Conferinta National de Algebra ( a 2-a si a 8-a - Iasi 1984, 1990; a 14-a Constanta, 1994);
- Scoala Nationala (anual) de Algebra (1986-1989 – Iasi; 1998-2007 – Constanta);
- Fifth Conference on Algebraic Hyperstructures and Applications, Iasi 1993;
- Conference on Representation Theory of Groups, Algebras, on Representations of Algebras, Groups and Orders, 1995, Constanta;
- Workshop NATO ASI and Euroconference on Algebra and Representation Theory, Constanta, 2000;
- Conferinta Anuala SSMR, Constanta , Mai, 2000.

**Membru in Comitete Stiintifice ale unor conferinte internationale :**

- Conferintele ROMAI de la Universitatea Pitesti (2001,2002, 2005, 2007, 2008) si Chisinau (Conferinta satelit pt. ICM 2006) (2006),
- Conferinta ASADE (Algebra si Ecuatii Diferentiale)-Chisinau (2007),
- Conferinta Internationala Jubiliara a Universitatii din Bacau (2006),
- Conferintele de multimi si sisteme fuzzy- Iasi (1991-2006),
- Conferinta Internationala de Matematica , Universitatea Baia Mare (2006).

**Burse de cercetare:**

- Bursa DAAD la Universitatea din Tübingen (1985)
- Technische Universität Wien (1991)

- Bursa Societatii de Stiinte Matematice din Japonia (1990)
- Universitatea Johannes Kepler Linz Austria (1997, 2003)
- Universitatea Pusan, Korea (1999)

**Decoratii, diplome:**

- **Decoratia Pentru Merit** in grad de comandor, 2000
- **Diploma de Excelenta pe 2006** Societatea de Stiinte Matematice din Romania (SSMR)