

## **CURRICULUM VITAE**

### **AURELIAN CERNEA**

Data si locul nasterii: 1 Martie 1968, Ploiesti, Romania.

Nationalitatea: Romana.

Limbi straine: Franceza, Engleza.

Adresa: str. Italiana nr. 3, Ploiesti.

### **Studii**

- 1974-1982 Scoala cu clasele I-VIII nr.21, Ploiesti,
- 1982-1986 Liceul "I.L.Caragiale", Ploiesti, sectia matematica-fizica,
- 1986-1987 Stagiul militar cu termen redus la U.M. 01184, Bacau,
- 1987-1992 Facultatea de Matematica, Universitatea Bucuresti (absolvita cu media 10.00),
- 1992-1993 Diploma de studii aprofundate, Universitatea Paris XI, Franta,
- 1994-1995 Doctorat in Matematica, Universitatea Bucuresti.

### **Activitatea profesionala**

- 15 iulie 1993 - 1 august 1994 asistent de cercetare stagiar, Institutul de Matematica, Academia Romana,
- 1 august 1994 - 1 decembrie 1995 asistent de cercetare, Institutul de Matematica, Academia Romana,
- 1 decembrie 1995 - 1 martie 1998 cercetator stiintific, Institutul de Matematica, Academia Romana,
- 1 martie 1998 - 1 octombrie 1998 cercetator stiintific principal III, Institutul de Matematica, Academia Romana,
- 1 octombrie 1998 - 18 februarie 2002 lector universitar, Facultatea de Matematica, Universitatea din Bucuresti,
- 18 februarie 2002 - 1 octombrie 2009 conferentiar universitar, Facultatea de Matematica, Universitatea din Bucuresti,
- 1 octombrie 2009 - profesor universitar, Facultatea de Matematica si Informatica, Universitatea din Bucuresti.

### **Domenii stiintifice de interes**

Ecuatii diferentiale, Incluziuni diferentiale, Teoria controlului optimal, Analiza fara netezime, Teoria viabilitatii.

## **Activitatea stiintifica**

- carti: 8
- articole stiintifice: 206
- expuneri la conferinte internationale: 76
- expuneri la manifestari stiintifice nationale: 14

## **Participari la activitati stiintifice internationale**

- expuneri la conferinte internationale desfasurate in strainatate:  
Paris (Franta) 1994; Brno (Cehia) 1997, 2009; Varsovia (Polonia) 1997; Levico Terme (Italia) 1998; Metz (Franta) 1998; Visegrad (Ungaria) 1999; Torun (Polonia) 1999; Barcelona (Spania) 2000; Aveiro (Portugalia) 2000, 2006, 2016; Praga (Cehia) 2001, 2013; Notre Dame, Indiana (S.U.A.) 2002; Perpignan (Franta) 2002, 2016; Roscoff (Franta) 2003; Hasselt (Belgia) 2003; Bedlewo (Polonia) 2004; Delft (Olanda) 2004; Stockholm (Suedia) 2004; Bratislava (Slovacia) 2005, 2017; Borovets (Bulgaria) 2005; Viena (Austria) 2006, 2007; Madrid (Spania) 2006, 2014; Budapesta (Ungaria) 2007, 2010, 2012; Amsterdam (Olanda) 2008, Poitiers (Franta) 2010, Loughborough (Marea Britanie) 2011; Lyon (Franta) 2014; Amadora (Portugalia) 2015, 2017; Szeged (Ungaria) 2015; Istanbul (Turcia) 2015; Erice (Italia) 2016; Novi Sad (Serbia) 2016; Sofia 2017.

- expuneri la conferinte internationale desfasurate in tara:  
Cluj-Napoca 1994, 1996, 2004, 2007, 2011, 2012, 2015; Ilieni 1995; Bucuresti 1995, 2007, 2012, 2013; Constanta 1996, 1997, 1998, 2002, 2005, 2009; Baile Felix 2001; Pitesti 2003; Iasi 2006, 2012, 2015; Brasov 2008, 2011, 2014, 2016; Baia Mare 2008; Sinaia 2009, 2013; Alba Iulia 2013; Craiova 2016.

- burse Tempus:  
Universitatea Paris XI, Franta: 1 octombrie 1992- 31 iulie 1993, 1 octombrie 1993- 31 martie 1994.

- burse postdoctorale:  
Universitatea Aveiro, Portugalia: 1 iulie - 30 septembrie 2000;  
Ecole Polytechnique, Paris, Franta: 2 martie - 31 mai 2003, 25 februarie - 24 mai 2004.

- participari la conferinte, vizite, cursuri, scoli de vara in strainatate:  
Varsovia (Polonia) 1991, 2001; Montreal (Canada) 1992; Paris (Franta) 2013; Perpignan (Franta) 2016.

## **Activitatea didactica**

Cursuri tinute la Facultatea de Matematica si Informatica a Universitatii Bucuresti:  
Ecuatii diferentiale, Ecuatii diferentiale si integrale, Ecuatii cu derivate partiale, Ecuatii

diferentiale si cu derivate partiale, Control optimal si aplicatii, Equations differentielles et integrales.

### **Distinctii**

Premiul „Spiru Haret” al Academiei Romane pe anul 2003.

Diplome ale Universitatii din Bucuresti pentru activitatea de cercetare stiintifica in anii 2005, 2006, 2007, 2008.

Membru corespondent al Academiei Oamenilor de Stiinta din Romania (din 2016).

### **Alte activitati**

Conducator de doctorat (din 2011).

Profesor asociat la Facultatea de Matematica, Universitatea „Al. I. Cuza” Iasi (2012-2015).

Cercetator stiintific I, Facultatea de Stiinte Aplicate, Universitatea „Politehnica” din Bucuresti (2011-2016).

Membru al Comitetului Editorial al revistei „Annals of the Academy of Romanian Scientists, Series on Mathematics and its Applications” (din 2012).

Mentor pentru cercetatori postdoctorali: 1(Anca Marcoci, 2014 - 2015).

Membru in comisii de abilitare: 5(1 – Universitatea „Babes-Bolyai” Cluj-Napoca, 2 - Academia Romana Bucuresti, 1 - Universitatea Bucuresti, 1 - Universitatea de Vest Timisoara).

Membru in comisii de doctorat: 12(1 – Universitatea Bucuresti, 5 - Universitatea „Babes-Bolyai” Cluj-Napoca, 1 - Universitatea Tehnica Cluj-Napoca, 1 - Universitatea „Al. I. Cuza” Iasi, 2 - Academia Romana Bucuresti, 1 - Government College University Lahore Pakistan, 1 - Universitatea Politehnica Bucuresti).

Membru al American Mathematical Society (din 2006).

Recenzent la Mathematical Reviews (din 2004) [52 recenzii].

Recenzent la Zentralblatt MATH (din 2009) [38 recenzii].

## **Granturi**

Director al granturilor:

- CNCSIS AT/243/2001 (Existenta solutiilor pentru unele clase de incluziuni de evolutie),
- CNCSIS AT/323/2002 (Incluziuni diferentiale cu restrictii de faza),
- CNCSIS A/887/2005-2006 (Incluziuni diferentiale, incluziuni discrete si aplicatii in control optimal si jocuri diferentiale).

Membru al granturilor:

- GAR 5260/1996 (Probleme calitative ale sistemelor de comanda si aplicatii),
- GAR 2563/1997 (Studiul unor clase de sisteme de comanda si aplicatii),
- GAR 110/1998 (Aplicatii ale algebrelor Lie si probleme de comanda pentru sisteme deterministe si stocastice),
- CNCSIS A/726/2002-651/2003,2004 (Metoda programarii dinamice in teoria jocurilor diferentiale),
- CERES C4/187/2004-2006 (Modelare matematica: rezultate abstracte si aplicatii),
- POSDRU 56/1.2/S/32768/2011-2013 (Formarea cadrelor didactice universitare si a studentilor in domeniul utilizarii unor instrumente moderne de predare-invatare-evaluare pentru disciplinele matematice in vederea crearii de competente performante si practice pentru piata muncii),
- PN/II/ID/PCE/3/0198/2011-2016 (Studiu calitativ al ecuatiilor diferentiale cu argument deplasat cu aplicatii la modelarea si simularea tratamentului leucemiei),

## LISTA DE PUBLICATII

### A. Carti

1. Incluziuni diferentiale si aplicatii, Editura Universitatii din Bucuresti, 2000.
2. Incluziuni diferentiale hiperbolice si control optimal, Editura Academiei Romane, Bucuresti, 2001.
3. Aspecte calitative in teoria incluziunilor diferentiale, Editura Cartea Universitara, Bucuresti, 2004.
4. Control optimal pentru incluziuni cu intarziere, Editura Matrix Rom, Bucuresti, 2006.
5. Incluziuni diferentiale semiliniare de ordinul al doilea in spatii Banach, Editura Matrix Rom, Bucuresti, 2008.
6. Elemente de teoria ecuatiilor diferentiale, Editura Universitatii din Bucuresti, 2010.
7. Introducere in teoria controlului optimal, Editura Universitatii din Bucuresti, 2012.
8. Ecuatii diferentiale ordinare cu aplicatii in mecanica, fizica si inginerie, Editura StudIS, Iasi, 2013 (cu I. Casu, D. Comanescu, S. Comsa, G.Cosovici, E. Popescu, I. Toma).

### B. Articole publicate in reviste „peer review”

1. Regularity properties of the value functions in optimal control, Studii si Cercetari Matematice, vol. 46, nr. 1, 1994, pag. 3-10 (cu C. Boboc).
2. Conditions necessaires d'optimalite pour les solutions d'une inclusion differentielle avec contraintes d'etat, Bulletin of the Polish Academy of Sciences, Mathematics, vol. 43, nr. 2, 1995, pag. 169-173.
3. Minimum principle for some classes of nonconvex differential inclusions, Analele stiintifice ale Universitatii „Al. I. Cuza” Iasi, Matematica, vol. 41, nr. 2, 1995, pag. 307-324 (cu S. Mirica).
4. Continuous imbedding of a solution of a differential inclusion, Studii si Cercetari Matematice, vol. 48, nr. 1-2, 1996, pag. 15-23 (cu S. Mirica).
5. Quasitangent differentiability and derived cones to reachable sets of control systems, Nonlinear Differential Equations and Applications, vol. 4, nr. 2, 1997, pag. 169-184 (cu S.Mirica).

6. Continuous version of Filippov's theorem for a semilinear differential inclusion, *Studii si Cercetari Matematice*, vol. 49, nr. 5-6, 1997, pag. 319-330.
7. Some qualitative properties of the solution set of an infinite horizon operational differential inclusion, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 43, nr. 3-4, 1998, pag. 317-328.
8. A Filippov type existence theorem for an infinite horizon operational differential inclusion, *Studii si Cercetari Matematice*, vol. 50, nr. 1-2, 1998, pag. 15-22.
9. Finite state constraints in optimal control of differential inclusions, *Studii si Cercetari Matematice*, vol. 50, nr. 5-6, 1998, pag. 327-336.
10. Derived cones to reachable sets of differential inclusions, *Mathematica*, vol. 40(63), nr. 1, 1998, pag. 35-62 (cu S.Mirica).
11. On an integral inclusion with delays and shifts, *Analele Universitatii Bucuresti, Matematica-Informatica*, vol. 47, Special Issue, 1998, pag. 65-72.
12. Continuous selections of solutions sets of nonlinear integrodifferential inclusions, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 44, nr. 3, 1999, pag. 341-351.
13. On a nonlinear integrodifferential inclusion, *Mathematica*, vol. 41(64),nr.1, 1999, pag. 31-37.
14. On the set of solutions of a nonconvex integral inclusion, *Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie*, vol. 42(90), nr. 1, 1999, pag. 23-39.
15. On the solution set of a class of integrodifferential inclusions, *Analele Universitatii Bucuresti, Matematica-Informatica*, vol. 48, nr. 2, 1999, pag. 21-28.
16. Some topological properties of a nonconvex integral inclusion, *Topological Methods in Nonlinear Analysis*, vol. 15, nr. 1, 2000, pag. 33-41.
17. Arcwise connectedness of solution set of an infinite horizon nonlinear integrodifferential inclusion, *Pure Mathematics and Applications*, vol. 11, nr. 2, 2000, pag. 161-171.
18. Derived cones via relaxation for differential inclusions, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 45, nr. 1, 2000, pag. 77-91.
19. Necessary optimality conditions for hyperbolic differential inclusions with end point constraint, *Mathematical Reports*, vol. 2(52), nr. 2, 2000, pag. 163-173.

20. Qualitative properties of solution sets to a class of nonconvex nonclosed integral inclusions, *Analele Universitatii Bucuresti, Matematica-Informatica*, vol. 49, nr. 2, 2000, pag. 123-131.
21. Some second-order necessary conditions for nonconvex hyperbolic differential inclusion problems, *Journal of Mathematical Analysis and Applications*, vol. 253, nr. 2, 2001, pag. 616-639.
22. A topological property of the solution set of an infinite horizon nonlinear integrodifferential inclusion, *Acta Mathematica Hungarica*, vol. 90, nr. 3, 2001, pag. 185-197.
23. On a certain converse statement of the Filippov-Wazewski relaxation theorem, *Commentationes Mathematicae Universitatis Carolinae*, vol. 42, nr.1, 2001, pag. 77-81.
24. Variational inclusions on closed domains, *Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie*, vol. 44(92), nr. 3, 2001, pag. 243-251.
25. Existence of solutions to a class of evolution inclusions, *Nonlinear Analysis*, vol. 50, nr. 7, 2002, pag. 1025-1034 (cu V. Staicu).
26. On the set of solutions of some nonconvex nonclosed hyperbolic differential inclusions, *Czechoslovak Mathematical Journal*, vol. 52(127), nr. 1, 2002, pag. 215-224.
27. On the local existence of solutions to a class of nonconvex evolution inclusions, *Rendiconti del Circolo Matematico di Palermo*, vol. 51, Serie II, 2002, pag. 355-366.
28. On the existence of viable solutions for a class of second order differential inclusions, *Discussiones Mathematicae, Differential Inclusions, Control and Optimization*, vol. 22, nr. 1, 2002, pag. 67-78.
29. On the relaxation theorem for semilinear differential inclusions in Banach spaces, *Pure Mathematics and Applications*, vol. 13, nr. 4, 2002, pag. 441-445.
30. Local controllability of hyperbolic differential inclusions via derived cones, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 47 , nr. 1, 2002, pag. 21-31.
31. Necessary optimality conditions for a class of differential inclusions with state constraints, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 47, nr. 3, 2002, pag. 295-304.
32. An approach to second-order necessary conditions for differential inclusions with state constraints, *Mathematical Reports*, vol. 4(54), nr. 2, 2002, pag. 161-169.

33. Existence of solutions to quasi-linear inclusions in non separable Banach spaces, *Mathematical Reports*, vol. 4(54), nr. 4, 2002, pag. 335-342.
34. Lipschitz-continuity of the solution map of some nonconvex hyperbolic differential inclusions, *Analele stiintifice ale Universitatii „Al. I. Cuza” Iasi, Matematica*, vol. 48, nr. 2, 2002, pag. 229-236.
35. On the solution map of some nonconvex integral inclusions, *Analele Universitatii Bucuresti, Matematica*, vol. 51, nr. 1, 2002, pag. 15-22.
36. On the local existence of solutions to a class of second order differential inclusions, *Analele Universitatii Bucuresti, Matematica*, vol. 51, nr. 2, 2002, pag. 117-122.
37. Directionally continuous selections and nonconvex evolutions inclusions, *Set-valued Analysis*, vol. 11, nr. 1, 2003, pag. 9-20 (cu V. Staicu).
38. Integrodifferential inclusions in non separable Banach spaces, *Demonstratio Mathematica*, vol. 36, nr. 3, 2003, pag. 591-602.
39. Existence for nonconvex integral inclusions via fixed points, *Archivum Mathematicum*, vol. 39, nr. 4, 2003, pag. 293-298.
40. Viable solutions of lipschitzean differential inclusions, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 48, nr. 4, 2003, pag. 385-392.
41. On a second order potential type differential inclusion, *Mathematical Reports*, vol. 5(55), nr. 1, 2003, pag. 37-43.
42. A note on nonsmooth Lyapunov functions for state constrained differential inclusions, *Mathematical Reports*, vol. 5(55), nr. 4, 2003, pag. 283-292 (cu S. Mirica).
43. An existence theorem for some nonconvex hyperbolic differential inclusions, *Mathematica*, vol. 45(68), nr. 2, 2003, pag. 121-126.
44. Continuous selections for a class of set valued maps, *Analele Universitatii Bucuresti, Matematica*, vol. 52, nr. 2, 2003, pag. 145-148.
45. On the relationship between the maximum principle and dynamic programming for optimal control problems under state constraints, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 49, nr. 2, 2004, pag. 93-101.
46. Continuous interpolation of solutions of nonlinear integrodifferential inclusions, *Mathematical Reports*, vol. 6(56), nr. 2, 2004, pag. 123-130.
47. Existence of viable solutions for a class of nonconvex differential inclusions, *Mathematical Reports*, vol. 6(56), nr. 3, 2004, pag. 217-224.



48. Local existence of solutions to a class of nonconvex second order differential inclusions, *Mathematica*, vol. 46(69), nr. 1, 2004, pag. 25-32.
49. On stability for differential inclusions on closed domains, *Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie*, vol. 47(95), nr. 1-2, 2004, pag. 23-29.
50. On a nonconvex second order differential inclusion, *Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie*, vol. 47(95), nr. 3-4, 2004, pag. 159-165.
51. A connection between the maximum principle and dynamic programming for constrained control problems, *SIAM Journal on Control and Optimization*, vol. 44, nr. 2, 2005, pag. 673-703 (cu H. Frankowska).
52. Second-order necessary conditions for differential-difference inclusion problems, *Nonlinear Analysis*, vol. 62, nr. 6, 2005, pag. 963-974.
53. Viable solutions for a class of differential inclusions without convexity, *PanAmerican Mathematical Journal*, vol. 15, nr. 4, 2005, pag. 13-20.
54. A note on viable solutions for a class of nonconvex differential inclusions, *Rendiconti del Circolo Matematico di Palermo*, vol. 54, Serie II, 2005, pag. 109-118.
55. Second-order necessary conditions for discrete inclusions with end point constraints, *Discussiones Mathematicae, Differential Inclusions, Control and Optimization*, vol. 25, 2005, pag. 47-58.
56. Controllability and maximum principle for discrete delay inclusions using derived cones, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 50, nr. 1, 2005, pag. 19-29.
57. On the maximum principle for discrete inclusions with end point constraints, *Mathematical Reports*, vol. 7(57), nr. 1, 2005, pag. 13-20.
58. Viable solutions for a class of nonconvex functional differential inclusions, *Mathematical Reports*, vol. 7(57), nr. 2, 2005, pag. 91-103 (cu V. Lupulescu).
59. On controllability and extremality for discrete delay inclusions, *Mathematical Reports*, vol. 7(57), nr. 4, 2005, pag. 281-288.
60. Some remarks on differential inclusions with state constraints, *Mathematica*, vol. 47(70), nr. 1, 2005, pag. 39-48.

61. The maximum principle for discrete delay inclusions with end point constraints, *Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie*, vol. 48(96), nr. 3, 2005, pag. 277-284 (cu C. Georgescu).
62. On a class of differential inclusions governed by a sweeping process, *Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie*, vol. 48(96), nr. 4, 2005, pag. 361-367 (cu V. Lupulescu).
63. On the existence of viable solutions for a class of nonautonomus nonconvex differential inclusions, *Studia Universitatis „Babes-Bolyai”, Matematica*, vol. 50, nr. 2, 2005, pag. 15-20.
64. Potential type functional differential inclusions, *Analele Universitatii Bucuresti, Matematica*, vol. 54, nr. 2, 2005, pag. 223-228 (cu V. Lupulescu).
65. A note on the value function for constrained control problems, *Systems and Control Letters*, vol. 55, nr. 1, 2006, pag. 21-26 (cu H. Frankowska).
66. Minimum principle and controllability for multiparameter discrete inclusions via derived cones, *Discrete Dynamics in Nature and Society*, vol. 2006, ID 96505, 2006, pag. 1-12.
67. Derived cones to reachable sets of differential-difference inclusions, *Nonlinear Analysis Forum*, vol. 11, nr. 1, 2006, pag. 1-13.
68. On some second-order necessary conditions for discrete delay inclusion problems, *Mathematical Reports*, vol. 8(58), nr. 3, 2006, pag. 259-265.
69. A minimum principle for a class of discrete inclusions, *Mathematical Reports*, vol. 8(58), nr. 4, 2006, pag. 391-399.
70. On viability for nonautonomus nonconvex differential inclusions, *Analele Universitatii Bucuresti, Matematica*, vol. 55, nr. 2, 2006, pag. 177-182.
71. Necessary optimality conditions for differential-difference inclusions with state constraints, *Journal of Mathematical Analysis and Applications*, vol. 334, nr. 1, 2007, pag. 43-53 (cu C. Georgescu).
72. Derived cones to reachable sets of discrete inclusions, *Nonlinear Studies*, vol. 14, nr. 2, 2007, pag. 177-187.
73. Controllability and extremality for differential-difference inclusions, *Communications on Applied Nonlinear Analysis*, vol. 14, nr. 2, 2007, pag. 23-34 (cu C. Georgescu).

74. An existence result for nonlinear integrodifferential inclusions, *Communications on Applied Nonlinear Analysis*, vol. 14, nr. 4, 2007, pag. 17-24.
75. On a second-order differential inclusion, *Atti del Seminario Matematico e Fisico dell'Universita di Modena e Reggio Emilia*, vol. 55, nr.1, 2007, pag. 3-12.
76. On the solution set of a nonconvex nonclosed higher order differential inclusion, *Mathematical Communications*, vol. 12, nr. 2, 2007, pag. 221-228.
77. On a second-order differential inclusion with constraints, *Applied Mathematics E-Notes*, vol. 7, 2007, pag. 9-15.
78. On the existence of solutions for a higher order differential inclusion without convexity, *Electronic Journal of Qualitative Theory of Differential Equations*, vol. 2007, nr. 8, 2007, pag.1-8.
79. A viability result for a class of nonconvex differential inclusions, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 52, nr. 1, 2007, pag. 1-8.
80. An approach to second-order necessary conditions for multiparameter discrete inclusions, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 52, nr. 5, 2007, pag. 529-538.
81. A note on constrained second-order differential inclusions without convexity, *Mathematical Reports*, vol. 9(59), nr. 2, 2007, pag. 175-181.
82. Existence of solutions for a class of differential inclusions governed by a sweeping process, *Mathematical Reports*, vol. 9(59),nr. 4, 2007, pag. 335-341.
83. Existence of viable solutions for a class of nonconvex differential inclusions with memory, *Mathematica*, vol. 49(72), nr.1, 2007, pag. 21-28 (cu V. Lupulescu).
84. A viability result for a class of nonconvex differential inclusions with memory, *Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie*, vol. 50(98), nr. 2, 2007, pag. 111-117.
85. On a nonlocal boundary value problem for a second order differential inclusion, *Analele Universitatii Bucuresti, Matematica*, vol. 56, nr. 2, 2007, pag. 281-288.
86. On the solution set of a nonconvex nonclosed second order differential inclusion, *Fixed Point Theory*, vol. 8, nr. 1, 2007, pag. 29-37.
87. On the solution set of some classes of nonconvex nonclosed differential inclusions, *Portugaliae Mathematica*, vol. 65, nr. 4, 2008, pag. 485-496.

88. On the existence of mild solutions of a nonconvex evolution inclusion, *Mathematical Communications*, vol. 13, nr. 1, 2008, pag. 107-114.
89. On a nonconvex boundary value problem for a first order multivalued differential system, *Archivum Mathematicum*, vol. 44, nr. 3, 2008, pag. 237-244.
90. Arcwise connectedness of the solution set of a nonconvex nonclosed integral inclusion, *Miskolc Mathematical Notes*, vol. 9, nr. 1, 2008, pag. 33-39.
91. A Filippov type existence theorem for a class of second-order differential inclusions, *Journal of Inequalities in Pure and Applied Mathematics*, vol. 9, nr. 2, 2008, pag. 1-6.
92. Continuous version of Filippov's theorem for a Sturm-Liouville type differential inclusion, *Electronic Journal of Differential Equations*, vol. 2008, nr. 53, 2008, pag. 1-7.
93. Stability of solution sets of nonlinear integrodifferential inclusions, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 53, nr. 4, 2008, pag. 277-283.
94. A note on viable solutions for a nonautonomous differential inclusion without convexity, *Mathematical Reports*, vol. 10(60), nr. 1, 2008, pag. 11-16.
95. Sturm-Liouville type differential inclusions in non separable Banach spaces, *Mathematical Reports*, vol. 10(60), nr. 3, 2008, pag. 205-211.
96. Variational inclusions for a nonconvex second-order differential inclusion, *Mathematica*, vol. 50(73), nr. 2, 2008, pag. 169-176.
97. An existence result for bilocal problems with mixed boundary conditions, *Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie*, vol. 51(99), nr. 2, 2008, pag. 137-143.
98. Continuous version of Filippov's theorem for a second-order differential inclusion, *Analele Universitatii Bucuresti, Matematica*, vol. 57, nr. 1, 2008, pag. 3-12.
99. Lipschitz-continuity of the solution map of some nonconvex evolution inclusions, *Analele Universitatii Bucuresti, Matematica*, vol. 57, nr. 2, 2008, pag. 189-198.
100. An existence result for a Fredholm-type integral inclusion, *Fixed Point Theory*, vol. 9, nr. 2, 2008, pag. 441-447.
101. On the solution set of a two point boundary value problem, *Surveys in Mathematics and its Applications*, vol. 3, 2008, pag. 167-175.
102. On the mild solutions of a class of evolution inclusions, *International Journal of Evolution Equations*, vol. 3, nr. 4, 2009, pag. 447-457.

103. On the set of mild solutions of a nonconvex integrodifferential inclusion, *International Journal of Modern Mathematics*, vol. 4, nr. 1, 2009, pag. 77-86.
104. Variational inclusions for fractional differential inclusions, *Communications on Applied Nonlinear Analysis*, vol. 16, nr. 4, 2009, 85-92.
105. Lipschitz-continuity of the solution map of some nonconvex second-order differential inclusions, *Fasciculi Mathematici*, vol. 41, 2009, pag. 45-54.
106. On an evolution inclusion in non separable Banach spaces, *Opuscula Mathematica*, vol. 29, nr. 2, 2009, pag. 131-138.
107. On a boundary value problem for a third order differential inclusion, *Demonstratio Mathematica*, vol. 42, nr. 4, 2009, pag. 723-730.
108. On the solution set of a nonconvex nonclosed Sturm-Liouville type differential inclusion, *Commentationes Mathematicae*, vol. 49, nr. 2, 2009, pag. 139-146.
109. On the existence of solutions for fractional differential inclusions with boundary conditions, *Fractional Calculus and Applied Analysis*, vol. 12, nr. 4, 2009, pag. 433-442.
110. Existence of solutions for a certain differential inclusion of third order, *Electronic Journal of Qualitative Theory of Differential Equations*, vol. 2009, nr. 6, 2009, pag. 1-9.
111. Some Filippov type theorems for mild solutions of a second-order differential inclusion, *Revue Roumaine de Mathematiques Pures et Appliquees*, vol. 54, nr. 1, 2009, pag. 1-11.
112. On an initial value problem for a Sturm-Liouville type differential inclusion with nonlocal conditions, *Analele Universitatii Bucuresti, Matematica*, vol. 58, nr. 2, 2009, pag. 145-152.
113. On monotone solutions for a nonconvex second-order functional differential inclusion, *Analele stiintifice ale Universitatii Ovidius Constanta, Matematica*, vol. 17, nr. 3, 2009, pag. 69-77.
114. On certain boundary value problems for some second-order differential inclusions, *Bulletin of the Transilvania University Brasov, Series III: Mathematics, Informatics, Physics*, vol.2(51), nr. 1, 2009, pag. 11-16.
115. Continuous version of Filippov's theorem for fractional differential inclusions, *Nonlinear Analysis*, vol. 72, nr. 1, 2010, pag. 204-208.
116. On a boundary value problem for a Sturm-Liouville differential inclusion, *Journal of Systems Science and Complexity*, vol. 23, nr. 2, 2010, pag. 390-394.

117. Variational inclusions for a Sturm-Liouville type differential inclusion, *Mathematica Bohemica*, vol. 135, nr. 2, 2010, pag. 171-178.
118. On the existence of solutions for nonconvex fractional hyperbolic differential inclusions, *Communications in Mathematical Analysis*, vol. 9, nr. 1, 2010, pag. 109-120.
119. On a nonlinear fractional order differential inclusion, *Electronic Journal of Qualitative Theory of Differential Equations*, vol. 2010, nr. 78, 2010, pag. 1-13.
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