

INFORMAȚII PERSONALE

Cernea Aurelian

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Sexul Masculin | Data nașterii 01/03/1968 | Naționalitatea Română

EXPERIENȚA PROFESIONALĂ

1.10.2009-prezent	profesor universitar, Facultatea de Matematică și Informatică, Universitatea din București
18.02.2002-1.10.2009	conferențiar universitar, Facultatea de Matematică, Universitatea din București
1.10.1998-18.02.2002	lector universitar, Facultatea de Matematică, Universitatea din București
1.03.1998-1.10.1998	cercetător științific principal III, Institutul de Matematică, Academia Română
1.12.1995-1.03.1998	cercetător științific, Institutul de Matematică, Academia Română
1.08.1994-1.12.1995	asistent de cercetare, Institutul de Matematică, Academia Română
15.07.1993-1.08.1994	asistent de cercetare stagiar, Institutul de Matematică, Academia Română

EDUCAȚIE ȘI FORMARE

1994-1995	Doctor în Matematică, Universitatea din București
1992-1993	Diplomă de Studii Aprofundate, Universitatea Paris XI
1987-1992	Diplomă de Licență, Facultatea de Matematică, Universitatea din București
1982-1986	Diplomă de Bacalaureat, Liceul I.L. Caragiale Ploiești

COMPETENTE PERSONALE

Limba maternă Româna

Alte limbi străine cunoscute

Engleza
Franceza

INTELEGERE		VORBIRE		SCRIERE
Ascultare	Citire	Participare la conversație	Discurs oral	
C1/2	C1/2	C1/2	C1/2	C1/2
C1/2	C1/2	C1/2	C1/2	C1/2

Publicații	8 carti și peste 260 de articole științifice
Conferințe	Peste 130 de expuneri la manifestări științifice naționale și internaționale
Distincții	Premiul Spiru Haret al Academiei Române pe anul 2003
Afilieri	Membru corespondent al Academiei Oamenilor de Știință din România

Lista de publicații

A. Cărți

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 în 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.
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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.
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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.
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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.
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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.
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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).
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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 nonautonomous nonconvex differential inclusions, *Analele Universitatii Bucuresti, Matematica*, vol. 55, nr. 2, 2006, pag. 177-182.

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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).
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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.

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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.
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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.
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123. On the existence of solutions for nonconvex impulsive hyperbolic differential inclusions, *Annals of the University of Bucharest, Mathematical Series*, vol. 1(59), nr. 2, 2010, pag. 273-282 (cu S. Nedelcu).
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