**Titlu proiect: Incluziuni funcţional diferenţiale cu întârzieri în spaţii Banach**
**Categoria de proiect: PN-II-ID-PCE-2011-3-0052**
**Contractul de finanţare: 240 din 05/10/2011**
**Manager proiect: prof. dr. Ioan I. VRABIE**

## Lista rezultate

| Nr. crt. | NUME AUTORI | TITLUL ARTICOLULUI/ CĂRŢII / COMUNICĂRII ŞTIINŢIFICE | REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINTA LA CARE S-A COMUNICAT | ANUL PUBLICARII/ COMUNICARII |
|---|---|---|---|---|
| | | ARTICOLE ISI | | |
| 1 | I. Benedetti, L. Malaguti, V. Taddei, I. I. Vrabie | Semilinear delay evolution equations with measures subjected to nonlocal initial conditions | Annali di Matematica Pura ed Applicata, vol. 195 (2016) pp. 1639-1658 | 2016 |
| 2 | M. Burlică, D. Roşu | A class of nonlinear delay evolution equations with nonlocal initial conditions | Proceedings of the American Mathematical Society, vol. 142 (2014) pp. 2445-2458 | 2014 |
| 3 | M. Burlică, D. Roşu | A class of reaction-diffusion systems with nonlocal initial conditions | Analele Stiintifice ale Universitatii "Al.I.Cuza" din Iasi, Matematica, vol 61 (2015) p.59-78 | 2015 |
| 4 | M. Burlică, D. Roşu | Nonlinear delay systems with nonlocal initial conditions having affine growth | Topological Methods In Nonlinear Analysis, doi: 10.12775/TMNA.2016.027 (2016, first online) | 2016 |
| 5 | M. Burlică, D. Roşu, I. I. Vrabie | Abstract reaction-diffusion systems with nonlocal initial conditions | Nonlinear Analysis-Theory Methods & Applications, vol. 94 (2014) p. 107-119 | 2014 |
| 6 | M. Necula, M. Popescu | Viability of a time dependent closed set with respect to a semilinear delay evolution inclusion | Analele Stiintifice ale Universitatii "Al.I.Cuza" din Iasi, Matematica,vol. 61 (2015) p. 41-58 | 2015 |
| 7 | M. Necula, M. Popescu, I. I. Vrabie | Viability for delay evolution equations with nonlocal initial conditions | Nonlinear Analysis-Theory Methods & Applications, vol. 121 (2015) p.164-172 | 2015 |
| 8 | I. I. Vrabie | Existence for nonlinear evolution inclusions with nonlocal retarded initial conditions | Nonlinear Analysis-Theory Methods & Applications, vol. 74 (2011) p. 7047-7060. | 2011 |
| 9 | I. I. Vrabie | Existence in the large for nonlinear delay evolution inclusions with nonlocal initial conditions | Journal of Functional Analysis, vol. 262 (2012), p. 1363-1391 | 2012 |
| 10 | I. I. Vrabie | Global solutions for nonlinear delay evolution | Set-Valued and Variational Analysis, vol. 20 (2012), p. | 2012 |

| | | inclusions with nonlocal initial conditions | 477-497 | |
|---|---|---|---|---|
| 11 | I. I. Vrabie | Nonlinear retarded evolution equations with nonlocal initial conditions | Dynamic Systems and Applications, vol. 21 (2012), p. 417-440 | 2012 |
| 12 | I. I. Vrabie | Almost periodic solutions for nonlinear delay evolutions with nonlocal initial conditions | Journal of Evolution Equations, vol. 13 (2013), p. 693-714 | 2013 |
| 13 | I. I. Vrabie | Delay evolution equations with mixed nonlocal plus local initial conditions | Communications in Contemporary Mathematics, vol. 17(2015), p. 1-22 | 2015 |
| 14 | I. I. Vrabie | A local existence theorem for a class of delay differential equations | Topological Methods In Nonlinear Analysis, doi: 10.12775/TMNA.2016.023 | 2016 |
| ARTICOLE ALTE BAZE DE DATE | | | | |
| 1 | M. Burlică, D. Roşu, I. I. Vrabie | Continuity with respect to the data for a delay evolution equation with nonlocal initial conditions | Libertas Mathematica (new series) vol. 32 (2012), p. 37-48 | 2012 |
| 2 | M. Necula, M. Popescu, I. I. Vrabie | Nonlinear delay evolution inclusions on graphs | Proceedings of the IFIP TC7/2013 on System Modeling and Optimization, Klagenfurt, Lecture Notes in Computer Science, 2014, p. 207-216. | 2014 |
| 3 | M. Necula, I. I. Vrabie | Nonlinear delay evolution inclusions with general nonlocal initial conditions | Annals of the Academy of Romanian Scientists, Mathematics and its Applications, vol. 7 (2015) p. 67-97 | 2015 |
| 4 | I. I. Vrabie | Semilinear delay evolution equations with nonlocal initial conditions | New Prospects in Direct, Inverse and Control Problems for Evolution Equations, Springer INdAM Series, vol. 10 (2014) p. 421-437 | 2014 |
| CARTI | | | | |
| 1 | M. Burlică, M. Necula, D. Roşu, I. I. Vrabie | Delay Differential Evolutions Subjected to Nonlocal Initial Conditions | Chapman and Hall/CRC, 2016, ISBN 9781498746441 | 2016 |
| DOCUMENTATIE TEHNICA, BREVETE | | | | |
| 1 | | | | |
| n | | | | |
| COMUNICARI STIINTIFICE NATIONALE | | | | |
| 1 | I. I. Vrabie | Evolution delay equations with nonlocal initial conditions | Joint International Meeting of the AMS and the Romanian Mathematical Society, Alba Iulia, Romania, 2013 | 2013 |
| COMUNICARI STIINTIFICE INTERNATIONALE | | | | |
| 1 | M. Burlică | Existence for a class of nonlinear delay reaction-diffusion systems | The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications Orlando, Florida, USA 2012 | 2012 |
| 2 | M. Popescu | Viability of a time dependent closed set with | The 9th AIMS Conference on Dynamical Systems, | 2012 |

| | | respect to a semilinear delay evolution inclusion | Differential Equations and Applications Orlando, Florida, USA 2012 | |
|---|---|---|---|---|
| 3 | D. Roșu | Global existence and exponential stability for a nonlinear delay evolution equation with nonlocal initial condition | The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications Orlando, Florida, USA 2012 | 2012 |
| 4 | I. I. Vrabie | Nonlinear delay evolution inclusions with nonlocal conditions on the initial history | The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications Orlando, Florida, USA 2012 | 2012 |
| 5 | I. I. Vrabie | Source Identification in a Semilinear Evolution Equation with Delay | Differential Equations, Inverse Problems and Control Theory, Cortona, Italy, 2013 | 2013 |
| 6 | I. I. Vrabie | Almost periodic solutions for nonlinear delay evolutions with nonlocal initial conditions | The 26th IFIP TC 7 Conference on System Modeling and Optimization, Klagenfurt, Austria 2013 | 2013 |
| 7 | M. Burlică | Viability of a moving set with respect to a semilinear reaction-diffusion system with delay | The 26th IFIP TC 7 Conference on System Modeling and Optimization, Klagenfurt, Austria 2013 | 2013 |
| 8 | M. Necula, M. Popescu, I. I. Vrabie | Nonlinear delay evolution inclusions on graphs | The 26th IFIP TC 7 Conference on System Modeling and Optimization, Klagenfurt, Austria 2013 | 2013 |
| 9 | M. Burlică, D. Roșu, I. I. Vrabie | Continuity with respect to the data for delay equations subjected to nonlocal conditions | The 26th IFIP TC 7 Conference on System Modeling and Optimization, Klagenfurt, Austria 2013 | 2013 |
| 10 | M. Burlică, D. Roșu | Viability for a time-dependent domain with respect to a reaction-diffusion systems with delay | Applied Mathematics, Modeling and Computer Science, Waterloo, Ontario, Canada 2013 | 2013 |
| 11 | M. Burlică, D. Roșu, I. I. Vrabie | A class of reaction-diffusion systems with mixed initial conditions | Applied Mathematics, Modeling and Computer Science, Waterloo, Ontario, Canada 2013 | 2013 |
| 12 | I. I. Vrabie | Delay evolution equations with implicit nonlocal initial conditions | Recent Trends in Nonlinear Partial Differential Equations and Applications Trieste, Italy, May 28-30, 2014 | 2014 |
| 13 | I. I. Vrabie | A viability result for delay evolution equations with implicit nonlocal initial conditions | The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, July 7-11, 2014 | 2014 |
| 14 | M. Burlică | Nonlinear multi-valued reaction-diffusion systems with delay | The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, July 7-11, 2014 | 2014 |

| 15 | D. Roşu | Existence for a nonlinear delay reaction-diffusion system subjected to nonlocal initial conditions | The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, July 7-11, 2014 | 2014 |
| 16 | I. I. Vrabie | Nonlinear delay evolution inclusions with general nonlocal implicit initial conditions | PDE's, Control Theory and Inverse problems, Bologna, Italy, September 15-19, 2014 | 2014 |
| 17 | I. I. Vrabie | A local existence theorem for functional delay differential equations in Banach spaces | The VII-th Symposium on Nonlinear Analysis, Torun, Poland | 2015 |
| 18 | I. I. Vrabie | Delay evolution equations with measures and nonlocal initial conditions | Topological methods in the theory of differential equations and applications, Lyon, France, 2015 | 2015 |
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## Lista achiziţiilor realizate în cadrul proiectului

| Denumire echipament | Categorie de achiziţii*: (numai mijloace fixe) | Valoarea (lei) | Locaţie |
|---|---|---|---|
| Sistem Desktop PCTip: Dell VOSTRO 360 | Echipamente şi mijloace moderne de documentare şi comunicare | 3839,82 | Universitatea Alexandru Ioan Cuza Iasi, Facultatea de Matematică |
| Laptop Dell XPS 15 L502x | Echipamente şi mijloace moderne de documentare şi comunicare | 5335,36 | Universitatea Alexandru Ioan Cuza Iasi, Facultatea de Matematică |
| Laptop Dell XPS 15 L502x | Echipamente şi mijloace moderne de documentare şi comunicare | 5335,36 | Universitatea Alexandru Ioan Cuza Iasi, Facultatea de Matematică |
| Computer DELL Optiplex 3020 MT (2 buc) | Echipamente şi mijloace moderne de documentare şi comunicare | 5550,22 | Universitatea Alexandru Ioan Cuza Iasi, Facultatea de Matematică |
| Tablet PC Asus Transformer Book | Echipamente şi mijloace moderne de documentare şi comunicare | 1461,96 | Universitatea Alexandru Ioan Cuza Iasi, Facultatea de Matematică |

Categorie de achiziţii*:
1. Echipamente şi aparatură de cercetare
2. Reţele de comunicaţii specializate
3. Baze de date şi informaţii de specialitate
4. Echipamente şi mijloace moderne de documentare şi comunicare
5. Alte categorii

Director proiect,
prof. dr. Ioan I. Vrabie