

Lista de lucrări

- 1) P.Gahinet, **A.Ignat** - *Low-order H_∞ synthesis via LMIs*, Proc. American Control Conference, Baltimore, Maryland, 1994, 1499-1500.
- 2) **A.Ignat** - *Aproximation of H_∞ -control problem in Hilbert spaces*, Numer. Funct. Anal. And Optimiz., 18(5-6),1997, 591-608.
- 3) **A.Ignat**, J.Sprekels, D.Tiba - *Analysis and Optimization of Nonsmooth Arches*, SIAM J. Control. Optim., Vol. 40, Nr. 4, 2001, 1107-1133.
- 4) **A.Ignat**, J.Sprekels, D.Tiba - *A model of a general elastic curved rod*, Math. Meth. Appl. Sci., 25,2002, 835-854.
- 5) **A.Ignat**, M.Luca, A. Ciobanu - *New Method of Iris Recognition using Dual Tree Complex Wavelet Transform*, 6-th International Workshop on Soft Computing, SOFA 2014, Timisoara, Romania, July 24-26, 2014, *Soft Computing Applications*, Springer International Publishing, 2016. 851-862.
- 6) **A.Ignat** - *Combining Features for Texture Analysis*, Proceedings Part II of 16-th International Conference CAIP2015, Valletta, Malta, September 2-4, 2015 (G. Azzopardi, N. Petkov eds.), LNCS 9257, pp. 220-229.
- 7) **A.Ignat**, M.Coman - *Gender Recognition with Gabor Filters*, E-Health and Bioengineering Conference (EHB), Iași, Romania, 19-21 November, 2015.
- 8) I.Păvăloi, **A.Ignat** - *Iris Recognition using Statistics on Pixel Position*, IEEE Intl. Conference on E-Health and Bioengineering Conference (EHB), Sinaia, Romania, 22-24 June, 2017.
- 9) **A. Ignat**, A. Vasiliu - *A study of some fast inpainting methods with application to iris reconstruction*, 22nd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Belgrade, Serbia, 3-5 September.
- 10) I.Păvăloi, **A.Ignat** - *Experiments on Iris Recognition using Partially Occluded Images*, 8-th International Workshop on Soft Computing, SOFA 2018, Arad, Romania, 13-15 September.

Teza de doctorat

Aproximarea problemelor de control optimal guvernate de ecuații neliniare infinit dimensionale (aproximări ale ecuațiilor Riccati asociate problemelor de control H_∞), 1999.

Cărți și capitole în cărți

- 1) **Ignat** - *Calcul Numeric*, curs învățământ la distanță, Ed. Univ. "Alexandru Ioan Cuza", Iași, ISSN -1221:9363
- 2) E. Bârsan, **A.Ignat** - *Modelarea calității apei în sistemele de distribuție*, Ed. Performatica, Iași 2005
- 3) M. Costin, **A. Ignat** - *De la percepția vizuală către detecția automată a texturii*, capitol în volumul "De la procesarea de imagini către vederea artificială. Progrese cognitive" coordonat de Mihaela Costin, pg. 257-283, Ed. Institutului European, 2013.

Articole publicate în reviste din circuitul internațional

M.Ignat, **A.Ignat** - *Gravitational instability of a radiative dissipative rotating plasma with thermal conduction and anisotropic current in the presence of suspended particles*, Atti del Sem. Math. Phys. Univ. Modena, Italy, XLVI, 1998, 15-26.

Articole publicate în volumele conferințelor internaționale

- 1) M.Costin, **A.Ignat**, O.Baltag, S.Bejinariu, C.Ștefănescu, F.Rotaru, D.Costandache - *3D Breast Shape Reconstruction for a Non-Invasive Early Breast Cancer System*, SOFA 2007, 2nd IEEE Internat. Workshop on Soft Computing Applications, Gyula, Hungary - Oradea, Romania, 21-23 August 2007.
- 2) O.Baltag, M.Costin, **A.Ignat**, C.Ștefănescu, F.Rotaru - *Epipolar Geometry in a Non-Invasive Breast Cancer Diagnosis System*, SACCS 2007, 9th Internat. Symp. On Automatic Control and Computer Science, Iași, 16-18 Nov., 2007.
- 3) M.Costin, **A.Ignat** - *Pitfalls in Using Dual Tree Complex Wavelet Transform for Texture Featuring: a Discussion*, 2011 IEEE 7th International Symposium on Intelligent Signal Processing (WISP) Proceedings, September 19-21, Malta, 110-115.
- 4) **A.Ignat**, M.Luca, A.Ciobanu - *Iris Features using Dual Tree Complex Wavelet Transform in Texture Evaluation for Biometrical Identification*, E-Health and Bioengineering Conference (EHB), Iași, November 21-23, 2013.
- 5) **A.Ignat**, M.Luca - *Rotation Invariant Texture Retrieval Using Dual Tree Complex Wavelet Transform*, 6-th International Workshop on Soft Computing, SOFA 2014, Timișoara, Romania, July 24-26, 2014, *Soft Computing Applications*. Springer International Publishing, 2016. 903-911.
- 6) F.Rotaru, S.I.Bejinariu, C.D.Niță, R.Luca, M.Luca, **A.Ignat** - *Optic Disc Recognition Method for Retinal Images*, 6-th International Workshop on Soft Computing, SOFA 2014, Timișoara, Romania, July 24-26, 2014, *Soft Computing Applications*, Springer International Publishing, 2016, 875-889..
- 7) I.Păvăloi, A.Ciobanu, M.Luca, E.Musca, T.Barbu, **A.Ignat** - *A Study on Automatic Recognition of Positive and Negative Emotions in Speech*, Proceedings of the 18th International Conference on System Theory, Control and Computing (ICSTCC 2014), Sinaia, Romania, October 17-19, 2014, pp. 221-224.
- 8) V.Dima, **A. Ignat**, C.Rusu - *Identifying Down Syndrome Cases by Combined Use of Face Recognition Methods*, 7-th International Workshop on Soft Computing, SOFA 2016, Arad, Romania, August 24-26, 2016.
- 9) **A. Ignat**, M Luca - *Tips on Texture Evaluation with Dual Tree Complex Wavelet Transform*, 7-th International Workshop on Soft Computing, SOFA 2016, Arad, Romania, August 24-26, 2016.
- 10) I.Păvăloi, **A. Ignat** - *Iris Recognition using Color and Texture Features*, 7-th International Workshop on Soft Computing, SOFA 2016, Arad, Romania, August 24-26, 2016.
- 11) **A. Ignat**, B. Aciobăniței - *Handwritten digit recognition using rotations*, 18-th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2016, Timișoara, Romania, September 24-27, 2016.
- 12) M. Luca, A. Ciobanu, S.-I. Bejinariu, **A. Ignat**, C. T. Teodorescu-Soare, G. Stoian, D. Luca - *Automatic Evaluation of Surface Nanostructuring Using Image Processing*, In: Luca D., Sirghi L., Costin C. (eds) Recent Advances in Technology Research and Education. INTER-

ACADEMIA 2017. Advances in Intelligent Systems and Computing, vol 660. Springer, pp 110-119.

- 13) I.Păvăloi, **A.Ignat** - *Experiments on phonetic transcription of audio vowels*, 8-th International Workshop on Soft Computing, SOFA 2018, Arad, Romania, 13-15 September

Alte lucrări și contribuții științifice

- 1) **A.Ignat** - *Calcul symbolique pour l'obtention des solutions exactes de l'equation de Ginzburg-Landau*, An. St. University "Al.I.Cuza" Iași, Tom II, Informatica, 109-120.
- 2) **A.Ignat** - *Approximating algebraic Riccati equations in infinite dimensions*, Review d'Analyse Numerique et la Theorie de l'Approximation, Cluj, Romania, 1995, 147-157.
- 3) **A.Ignat** - *Boundary control approximation of a 1-dimensional hyperbolic equation*, preprint of Computer Science Faculty, University of Iasi, TR-4/1998.
- 4) **A.Ignat**, J.Sprekels, D.Tiba - *Analysis and optimization of nonsmooth mechanical structures*, Preprint 581/2000 WIAS (Weierstrass Institute for Applied Analysis and Stochastics), Berlin, Germany.
- 5) L.Ciortuz, **A.Ignat** - *CHALLENGER - The First Romanian Automate Translation System from English into Romanian*, International Conference on Development and Application Systems, Suceava, Romania, 26-28 May, 1994, 173-174
- 6) E. Bârsan, **A.Ignat** - *Impact of failures from water distribution networks on booster disinfection*, Computational Civil Engineering 2005, International Symposium Iași, Romania, May 27, 2005.
- 7) E. Bârsan, **A.Ignat** - *Optimization of Booster Disinfection in Water Distribution Systems*, Computational Civil Engineering 2005, International Symposium Iași, Romania, May 27, 2005.
- 8) I.Păvăloi, **A.Ignat** - *A Simple Global Color Criterion for Image Retrieval*, 13th Int. Conference on DEVELOPMENT AND APPLICATION SYSTEMS, DAS 2016, Suceava, Romania, May 19-21, 2016.
- 9) **A. Ignat**, *Inpainting with Fokker-Planck equation*, acceptată spre publicare în Proceedings of the Romanian Academy, Series A
- 10) I. Păvăloi, **A. Ignat**, *Iris Image Classification Using SIFT Features*, acceptata spre sustinere la 23rd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, KES 2019, Budapest, Hungary, 4-6 sept 2019