

## LISTA DE LUCRĂRI

### 1. Teza(-ele) de doctorat

1. Analiza Fetei Umane, (link: <http://hermes.etc.upt.ro/cercetare/teze.html>)

### 2. Publicatii:

A) Cărți publicate, îndrumare/culegeri publicate,

B) capitole publicate în volume colective,

**2B1. I. Buciu**, “*Application of forecasting and prediction approaches in economics*”, Marcel Ioan Bolos, Diana Claudia Sabau-Popa (Eds.), *Using Levy Distribution processes in modeling economic and financial indicators of companies*, to appear, 2013.

**2B2. I. Buciu** and I. Pitas, “*Subspace image representation for facial expression analysis and face recognition and its relation to the human visual system*”, **Organic Computing**, in the Series "Understanding Complex Systems", (ISBN: 978-3-540-77656-7), Springer Verlag, pp. 303 – 320, March, 2008, (link: <http://www.springer.com/physics/book/978-3-540-77656-7>).

**2B3. I. Buciu** and I. Pitas, “*Image representations based on discriminant non-negative matrix factorization with application to facial expression recognition*”, **Advances in Intelligent Information Processing: Tools and Applications**, B. Chanda and C.A. Murthy Eds., ISBN 978-981-281-898-0, in ISI Platinum Jubilee Series on Statistical Science and Interdisciplinary Research, World Scientific Publishing, pp. 125 – 143, 2008, (link: <http://www.worldscibooks.com/compsci/6901.html>).

**2B4. I. Buciu** and I. Nafornta, “*Non-negative Matrix Factorization Methods and their Applications*”, Zadeh L.A., Tufis D., Filip F.G., Dzitac I. (Eds.), **From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence**, Editing House of Romanian Academy, Bucharest, ISBN 978-973-27-1678-6, pp. 32-50, 2008, (link: [http://www.acad.ro/carti2008/carte08\\_06Zadeh.htm](http://www.acad.ro/carti2008/carte08_06Zadeh.htm)).

**2B.5 I. Buciu**, I. Nafornta and C. Gordan, “**Facial Expression Synthesis and Animation**”, Didem Gokcay and Gulsen Yildirim (Eds.), *Affective Computing and Interaction: Psychological, Cognitive and Neuroscientific Perspectives*, IGI-Global, ISBN 978-1-61692-892-6, pp. 184 - 206, 2010 (<http://www.igi-global.com/chapter/facial-expression-synthesis-animation/49535>).

C) capitole teoretice redactate,

**2C1. I. Buciu**, *Curs de Informatica Medicala*, 2008 (link: <http://webhost.uoradea.ro/ibuciu/>).

**2C2. I. Buciu**, *Note de Curs - Compresia si Codarea Informatiei*, 2009 (link: <http://webhost.uoradea.ro/ibuciu/>).

D) sisteme de laborator funcționale, după caz, prin care se aduc contribuții la asigurarea și perfecționarea activităților didactice/profesionale.

**2D1 I. Buciu**, *Culegere de probleme – Informatica Medicala*, 2008 (link: <http://webhost.uoradea.ro/ibuciu/>)

**2D2 I. Buciu**, *Laboratoare – Compresia si Codarea Informatiei*, 2009 (link: <http://webhost.uoradea.ro/ibuciu/>)

### 3 Articole/studii publicate:

A) în reviste de specialitate de circulație internațională recunoscute cotate ISI sau indexate în baze de date internaționale specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță ;

**3A1. I. Buciu**, C. Kotropoulos, and I. Pitas, “*Comparison of ICA approaches for facial expression recognition*”, **Signal, Video and Image Processing**, ISSN: 1863-1703, Volume 3, Issue 4, pp. 345 – 361, Dec. 2009 (link: <http://www.springerlink.com/content/c2618t145m02030/>).

**3A2. I. Buciu** and I. Nafornta, “*Feature extraction through phase congruency for facial expression analysis*”, **International Journal of Pattern Recognition and Artificial Intelligence**, Special Issue on Facial Image Processing and Analysis, ISSN: 0218-0014, Volume 23, Issue 3, pp. 617 – 635, May 2009 (link: <http://www.worldscinet.com/ijprai/23/2303/S02180014092303.html>).

**3A3 I. Kotsia**, **I. Buciu**, and I. Pitas, “*An analysis of facial expression recognition under partial facial image occlusion*”, *Journal of Image and Visual Computing*, ISSN:0262-8856, Volume 26, Issue 7, pp. 1052-1067, July, 2008 (link: <http://dx.doi.org/10.1016/j.imavis.2007.11.004>).

- 3A4. I. Buciu**, N. Nikolaidis, and I. Pitas, “Non-negative matrix factorization in polynomial feature space”, **IEEE Transactions on Neural Networks**, ISSN: 1045-9227, Volume 19, Issue 6, pp. 1090 – 1100, June 2008 (link: [http://ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?isnumber=4531603&arnumber=4488103&count=18&index=12](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?isnumber=4531603&arnumber=4488103&count=18&index=12)).
- 3A5. I. Buciu**, “Non-negative Matrix Factorization, A New Tool for Feature Extraction: Theory and Applications”, **International Journal of Computers Communications and Control**, ISSN: 1841 - 9836, Volume 3, Suppl. S, pp. 67 – 74, May 2008, (link: [http://www.journal.univagora.ro/?page=article\\_details&id=258](http://www.journal.univagora.ro/?page=article_details&id=258)).
- 3A6. I. Buciu** and I. Pitas, “NMF, LNMF, and DNMF modeling of neural receptive fields involved in human facial expression perception”, **Journal of Visual Communication and Image Representation**, ISSN: 1047-3203, vol. 17, no. 5, pp. 958 - 969, Oct., 2006 (link: <http://dx.doi.org/10.1016/j.jvcir.2006.06.001>).
- 3A7. I. Buciu**, C. Kotropoulos, and I. Pitas, “Demonstrating the stability of support vector machines for classification”, **Signal Processing**, ISSN: 0165-1684, Volume 86, Issue 9, pp. 2364 - 2380, Sept. 2006 (link: <http://dx.doi.org/10.1016/j.sigpro.2005.11.005>).
- 3A8. S. Zafeiriou**, A. Tefas, **I. Buciu**, and I. Pitas, “Exploiting discriminant information in nonnegative matrix factorization with application to frontal face verification”, **IEEE Transactions on Neural Networks**, ISSN: 1045-9227, vol. 17, no. 3, pp. 683 – 695, May, 2006 (link: [http://ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?isnumber=34174&arnumber=1629091&count=31&index=11](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?isnumber=34174&arnumber=1629091&count=31&index=11)).
- 3A.9. I. Buciu** and **A. Gacsadi**, “Directional Features for Automatic Tumor Classification of Mammogram Images”, **Biomedical Signal Processing & Control**, 6(4), pp. 370 – 378, October 2011 (link: <http://www.sciencedirect.com/science/article/pii/S1746809410000820>).

B) indexate în baze de date internaționale recunoscute (BDI).

- 3B1. I. Buciu** and I. Nafornta, “Linear and nonlinear dimensionality reduction techniques”, **Journal of Studies in Informatics and Control**, ISSN1220-1766, vol. 16, no. 4, pp. 431 – 444, Dec. 2007 (link: [http://www.ici.ro/ici/revista/sic2007\\_4/art10.html](http://www.ici.ro/ici/revista/sic2007_4/art10.html)).

C) în alte reviste de specialitate de circulație internațională ;

D) în reviste din țară recunoscute C.N.C.S.I.S. ;

E) în alte reviste de specialitate de circulație națională cu (ISBN, ISSN)

F) citări ISI/BDI/Alte reviste

**Lucrarea: S. Zafeiriou, A. Tefas, I. Buciu, and I. Pitas, “Exploiting discriminant information in non-negative matrix factorization with application to frontal face verification”, IEEE Trans. on Neural Networks, ISSN: 1045-9227, vol. 17, no. 3, pp. 683 – 695, 2006, este citata de:**

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**Lucrarea: I. Buciu, C. Kotropoulos, I. Pitas, "On the stability of support vector machines for face detection", 2002 IEEE International Conference on Image Processing, vol. III, Rochester, N. Y., USA, pp. 121 – 124, 2002, este citata de:**

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4. A)Articole/studii publicate în volumele unor manifestări științifice: (se precizeaza daca este cazul -cotate ISI sau indexate în baze de date internaționale-BDI).

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**4A.15. I. Buciu**, N. Nikolaidis, and I. Pitas, “A comparative study of NMF, DNMF, and LNMF algorithms applied for face recognition”, 2006 Second IEEE-EURASIP International Symposium on Control, Communications, and Signal Processing (ISCCSP), Marrakech, Morocco, 2006 (link: [www.eurasip.org/Proceedings/Ext/ISCCSP2006/defevent/papers/cr1030.pdf](http://www.eurasip.org/Proceedings/Ext/ISCCSP2006/defevent/papers/cr1030.pdf)).

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**4A.23. I. Buciu** and I. Naornita, “Non-negative Matrix Factorization Methods for Face Recognition under Extreme Lighting Variations”, 2009 IEEE International Symposium in Signals, Circuits & Systems (ISSCS), pp. 125 – 128, 2009 (link: [http://ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?isnumber=5206080&arnumber=5206186&count=145&index=32](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?isnumber=5206080&arnumber=5206186&count=145&index=32)).

**4A.24. I. Buciu** and A. Gascadi, “Gabor Wavelet Based Features for Medical Image Analysis and Classification” 2nd International Symposium on Applied Sciences in Biomedical and Communication Technologies (ISABEL), 2009 (link: <http://www.isabel2009.sk/?q=menu/2>).

**4A.25. C. Grava**, A. Gacsadi and **I. Buciu**, “A Homogeneous Algorithm for Motion Estimation and Compensation by Using Cellular Neural Networks”, International Conference on Computers, Communications and Control”, 2010 (link: [http://journal.univagora.ro/?page=article\\_details&id=456](http://journal.univagora.ro/?page=article_details&id=456)).

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**4A. 29. I. Buciu** and A. Gacsadi, "Noise suppression methods for low quality images with application to face recognition", In Proc. ELMAR, 2011 (link: [http://ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?arnumber=6044338](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6044338)).

B) internaționale recunoscute (cu ISSN sau ISBN) țară și din străinătate

**4B.1 I. Buciu**, C. Gordan, "The chose of LMS algorithm step size in echo canceller problem", in Nove Smery V Spracovany Signalov V., pag 209 – 215, Liplovsky Mikulas, Slovakia, 2000.

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C) naționale,

**4C.1 I. Buciu**, C. Gordan, "Image compression between wavelet transforms and Fourier transforms" International; Conference on Renewable Sources and Environmental Electro-technologies, May, 2000, Felix, Romania.

**4C.2 I. Buciu**, C. Gordan, "Analysis and design of an elliptic IIR band-pass filter", Second International; Conference on Renewable Sources and Environmental Electro-technologies, pag. 37 – 42, May, 1998, Felix, Romania.

**4C.3 I. Buciu**, I. Popescu, "Spectrum analysis program of various signals", Second International; Conference on Renewable Sources and Environmental Electro-technologies, pag. 43 – 49, May, 1998, Felix, Romania

**4C.4 C. Gordan, I. Buciu**, "Estimating the Instantaneous Frequency of FM – signals Altered by Parasitic Amplitude Modulation", International Symposium on Systems Theory, Robotics, Computers and Process Informatics – Sintes ' 9, pag. 34 – 40, June, 1998, Craiova, Romania.

**4C.5 I. Buciu**, C. Gordan, "The reconstruction of the musical sounds using Kalman algorithm", Analelele Universitatii din Oradea, pag. 19 – 25, 1997, Baile Felix, Romania.

**4C.6 I. Buciu**, C. Gordan, " Selectarea frecventelor necesare in procesul de sintetizare a unor note muzicale folosind un filtru de tip FIR", Lucrarile sesiunii de comunicari stiintifice ale Universitatii "Aurel Vlaicu", din Arad, Ed. a – IV – a , 25 de ani de invatamant tehnic superior aradean., pag. 301—309, octombrie, 1997, Arad, Romania.

5 Brevete de invenție

6 Proiecte/contracte/granturi de cercetare-dezvoltare-inovare

**Membru:**

A) obținute prin competiție pe bază de contract/grant internaționale

6A.1. MULTImodal Human Computer Interaction (RTN - MUHCI) - FP6, 8 parteneri, responsabil: AUTH, buget: 1.5 Mil Euros, 2000 – 2004.

6A.2. SIMILAR – Network of Excellence – FP6, 16 parteneri, buget: 6.050.000, 2004 – 2008.

B) obținute prin competiție pe bază de contract/grant naționale

**Membru:**

6B.1 Dezvoltarea unor metode de prelucrare si analiza a imaginilor computer tomografice utilizand retele neuronale celulare si integrarea acestora intr-un sistem de asistare a diagnozei medicale - PN II - IDEI - Proiect de Cercetare Exploratorie, ID-668/2008, Contract Nr. 645/19.01.2009

6B.2 Tehnici de Analiza, Modelare si Simulare pentru Imagistica, Bioinformatica si Sisteme Complexe – POSDRU/86/1.2/S/61756

6B.3 Levy distributions for the study of predictability indicators with impact on regional development (LEDIRE), HURO/1001/293/2.2.3

6B.4 Joint development and implementation of an advanced training program in neurosciences, HURO/1001/295/2.3.1

**Director:**

6B.5. Grant CONNECT - Studiu privind precizia (toleranta minima) de masurare si testare a componentelor si ansamblelor electronice cu ajutorul testerului ITA Scorpio, 269121.02.2013

C) contracte de cercetare cu mediul socio-economic

D) alte lucrări de cercetare-dezvoltare, după caz.

7 A) Creații artistice prezentate la manifestări recunoscute, precum și, după caz, alte lucrări similare ,

B) lucrări prezentate la diferite seminarii/expoziții și nepublicate, etc.

8.. Recunoasterea prestigiului stiintific

A) Conducere de doctorat

B) Referent in comisii de doctorat internationale in ultimii 5 ani

C) Membru in colective de redactie ale unor reviste stiintifice recunoscute

8.C1. Editor executiv asociat pentru International Journal of Computers, Communications & Control (IJCCC)

8.C2. Editor pentru International Journal of Imaging Science and Engineering

8.C2. Editor asociat pentru International ISRN Artificial Intelligence (<http://www.isrn.com/journals/ai/editors/>);

8.C3. Editor asociat pentru Image and Vision Computing (<http://www.journals.elsevier.com/image-and-vision-computing/editorial-board/>);

D) Referent atestat al unor reviste științifice cotate ISI sau indexate in BDI in ultimii 5 ani

Referent la urmatoarele reviste: EURASIP Journal on Applied Signal Processing, Journal of the Image and Vision Computing, IEEE Transactions on Systems, Man and Cybernetics – Part A ,B and C; IEEE Transactions on Knowledge and Data Engineering; Engineering Applications of Artificial Intelligence (The International Journal of Intelligent Real-Time Automation), IEEE Transactions on Pattern Analysis and Machine Learning, Machine Vision and Applications, Information Sciences (INS – Elsevier), IEEE Transactions on Multimedia, Journal of Visual Communication and Image Representation, Image and Vision Computing, Journal of Signal Processing Systems, Journal of Systems and Software.

E) Expert științific atestat național / internațional

Expert Evaluator proiecte FP 7 ICT Call 8 Objective 8.1 – Technology Enhanced Learning, ICT Call 9 Cultural Heritage, and ICT Call 10 – “Technologies and scientific foundations in the field of creativity”

F) Premii .

G) membru în asociații științifice și profesionale

G1. Membru in „Soft Computing in Image Processing”.

