

INFORMATII PERSONALE

IOAN BUCIU

EXPERIENTA DE LUCRU

2013 – prezent

Conferențiar

Universitatea din Oradea, Facultatea de Inginerie Electrică și Tehnologia Informației, Dept. de Electronică și Telecomunicații (<http://ieti-etc.univoradea.ro/>)

- Predare și activități de cercetare în domeniile: prelucrarea imaginilor, compresia datelor, biometrie, recunoașterea formelor, analiza datelor medicale, internetul lucrurilor.

Director Centru de Cercetare în Tehnologia Informației, Electronică și Automatică.

2008 – 2013

Lector

Universitatea din Oradea, Facultatea de Inginerie Electrică și Tehnologia Informației, Dept. de Electronică și Telecomunicații (<http://ieti-etc.univoradea.ro/>)

- Predare și activități de cercetare în domeniile: prelucrarea imaginilor, compresia datelor, biometrie, recunoașterea formelor, analiza datelor medicale

1998 – 2008

Asistent universitar

Universitatea din Oradea, Facultatea de Inginerie Electrică și Tehnologia Informației, Dept. de Electronică și Telecomunicații (<http://ieti-etc.univoradea.ro/>)

- Predare și activități de cercetare în domeniile: prelucrarea digitala a semnalelor.

2000 – 2006

Cercetator

Aristotle University of Thessaloniki, Computer Vision and Image Processing Group, Department of Informatics , Artificial Intelligence and Image Analysis Laboratory

(<http://www.aiia.csd.auth.gr/EN/>)

- Activități de cercetare în domeniile : *Human – Computer Interaction, Image Processing, Face Detection, Facial Expression Analysis, Pattern Recognition.*

EDUCATIE

2006 – 2008

Doctorat în Inginerie Electronică și Telecomunicații Engineering and Telecommunications

12 / 02 / 2008 – 27 / 02 / 2008

“Politechnica” University of Timisoara, Romania

14 / 11 / 2005 – 14 / 12 / 2005

▪ Tema teza doctorat: Analiza Feței Umane

 Profesor invitat, Institut National des Sciences Appliquées de Lyon (INSA),
 CREATIS Lab, France

 Cercetator invitat, Laboratoire des Images et des Signaux (LIS), Institut National
 Polytechnique de Grenoble, France

1996 –1997

Diploma master in microunde

Universitatea din Oradea, Romania

1991 –1996

Diploma licență în Electronică

Universitatea din Oradea , Romania

APTITUDINI PERSONALE

Limba materna(s)

Romana

Alte limbi cunoscute

| | INTELEGERE | | VORBIRE | | SCRIERE |
|--|------------|--------|-------------------------|----------------------------|---------|
| | Ascultare | Citire | Interactiune verbala | Interactiune de vorbire | |
| Engleza | C2 | C2 | C2 | C2 | C2 |
| Replace with name of language certificate. Enter level if known. | | | | | |
| Greaca | A1 | A2 | A1 | A2 | A1 |
| Replace with name of language certificate. Enter level if known. | | | | | |

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Aptitudini de comunicare

Competente de lucru individual si in echipa;

- Aptitudini Organizare**
- Coordonare de activitati didactice si de cercetare
 - Membru in organizatii profesionale de domeniu.
 - Editor asociat - International Journal of Computers, Communications & Control (<http://www.journal.univagora.ro/?page=editorial>);
 - Editor asociat - International ISRN Artificial Intelligence (<http://www.isrn.com/journals/ai/editors/>);
 - Editor asociat pentru Image and Vision Computing (<http://www.journals.elsevier.com/image-and-vision-computing/editorial-board/>)
 - FP 7 projects - expert evaluator pentru Cooperation FP7 Activity (Information and Communication Technologies Section)
http://ec.europa.eu/research/participants/data/ref/fp7/list_fp7_experts/cooperation/ict/ict_2012_en.xlsx
 - Horizon2020 projects - expert evaluator pentru Industrial Leadership (Information and Communication Technologies Section).
http://ec.europa.eu/research/participants/data/ref/h2020/experts_lists/industrial/ict/h2020-expertslists-industrial-ict-2014_en.xlsx
 - Membru al Consiliului Stiintific si de Etica in Inteligenta Artificiala al Romaniei - <https://www.mcid.gov.ro/sistemul-de-cercetare/organisme-consultative/consiliul-stiintific-si-de-etica-in-inteligenta-artificiala/>

- Aptitudini legate de domeniu**
- 1996 (3 luni), “Erasmus-Socrates” bursa, cercetare in domeniul filter Kalman si filter de particule, National Technical University of Athens, Greece.
 - 2000 (3 months), “Erasmus-Socrates” bursa, cercetare protectia datelor prin watermarking, Aristotle University of Thessaloniki, Computer Vision and Image Processing Group, Department of Informatics, Greece.
 - 2009 – 2011, Consultant stiintific pentru CTrue LTD (Biometrics Company).
 - 20012 – 2018, Consultant stiintific pentru ISITYOU LTD (<https://www.isityou.biz/>).

- Aptitudini digitale**
- Matlab, OpenCV, C/C+ +, Qt.

INFORMATII SUPLIMENTARE

- Hirsch index - 8 (ISI Web of Science)
- 12 (Scopus)
- Număr total de citări: 211 (fără autocitări) - ISI Web of Science,
401 (fără autocitări) - Scopus.

- Publicații** Peste 40 lucrări conferințe, 4 capitole de cărți și 10 lucrări jurnale. Publicații selectate:
- I. Buciu**, S. Goldenberg, "Oscillating patterns based face antispoofing approach against video replay", *Biometrics in the Wild 2015 (B - Wild 2015)* - in conjunction with the 11th IEEE International Conference on Automatic Face and Gesture Recognition - FG 2015.
- I. Buciu**, I. Naornita, and C. Gordan, "Facial Expression Synthesis and Animation", in *Affective Computing and Interaction: Psychological, Cognitive and Neuroscientific Perspectives* (Didem Gökçay and Gülsen Yildirim, Eds.), IGI Global Publishing House, 184 – 206, 2011.
- I. Buciu** and I. Naornita, "Non-negative Matrix Factorization Methods and their Applications", Zadeh L.A., Tufis D., Filip F.G., Dzitic 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.
- 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"*, Springer Verlag, pp. 303 – 320, March, 2008 (ISBN: 978-3-540-77656-7), 2008.
- 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*, Advances in Intelligent Information Processing: Tools and Applications, B. Chanda and C.A. Murthy Eds., in *ISI Platinum Jubilee Series on Statistical Science and Interdisciplinary Research*, World Scientific Publishing, pp. 125 – 147, 2008,
- I. Buciu** and A. Gacsadi, "Directional Features for Automatic Tumor Classification of Mammogram Images", *Biomedical Signal Processing and Control (Elsevier)*, Volume 6, Issue 4, pp. 370 - 378, 2011.
- I. Buciu** and I. Naornita, "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*, Volume 23, Issue 3, pp. 617 - 635, 2009
- I. Buciu**, C. Kotropoulos, and I. Pitas, "Comparison of ICA approaches for facial expression recognition", *Signal, Video and Image Processing*, Volume 3, Issue 3, pp. 345 – 361, 2009.
- I. Buciu** and I. Pitas, "Non-negative matrix factorization in polynomial feature space", *IEEE Transactions on Neural Networks*, Volume 19, Issue 6, pp. 1090-1100, June 2008
- 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
- 9th Summer School In Image Processing, 12 – 21 July, 2001, Szeged, Hungary, talk on "Face detection algorithms".
- 2000 – 2004 RTN - Multi-Modal Human Computer Interaction (MUHCI) – FP 6
- 2004 – 2006 NoE - The European taskforce creating human-machine interfaces SIMILAR to human-human communication (SIMILAR) – FP 6.
- Prezentări** 2009 – 2012 Approaches for Computer Tomography Images Processing using Cellular Neural Networks Technology and Integration in Assisted Diagnosis, PN II - Exploratory Research Projects, ID- 668/2008, Grant Nr. 645/19.01.2009, Romanian National University Research Council (CNCSIS).
- Proiecte** 2011 – 2012 Levy distributions for the study of predictability indicators with impact on regional development (LEDIRE), HURO/1001/293/2.2.3.
- 2012 – 2013 Joint development and implementation of an advanced training program in neurosciences, HURO/1001/295/2.3.1
- 2018 – Software application in medical imaging for automatic measurements and time-evolution of tumours in CT images (SAMACT) – PN III, Contract no. 239CI
- 2021 – Sistem de urmărire a privirii pentru măsurarea acuității vizuale și a timpului de reacție pentru persoanele cu deficiențe de vedere – contract Nr. 316 / 21.12.2021
- 2021 – Software pentru determinarea automată a concentrațiilor de pigmenți necesari pentru obținerea unei culori impuse, cu aplicații în industrie – contract nr. 16/ 17.12.2021
- 2022 – Sistem interactiv de imagistica medicală pentru depistarea și măsurarea nodulilor pulmonari, inclusiv a zonelor afectate de COVID din imagini CT