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Prof.univ.dr.ing. **GACSÁDI ALEXANDRU**

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**A. Lucrări științifice relevante (10 lucrări)**

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**D. Lucrări științifice publicate în reviste de prestigiu sau volume ale manifestărilor naționale sau internaționale****I. Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI Proceedings**

1. I. Buciu, **A. Gacsádi**, *Biometrics Systems and Technologies: A survey*, International Journal. of Computers, Communications & Control, Publisher Agora University Editing House CCC Publications, Vol. 11, No. 3, pp. 315-330, June, 2016, ISSN:1841-9836, E-ISSN:1841-9844.
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  28. V. Tiponut, **A. Gacsádi**, I. Gavriluţ, *Applications of Artificial Neural Networks in mobile robots navigation*, Proceedings of the 9-th WSEAS International Conference on Automation and Information, Book Series: Recent Advances in Electrical Engineering, pp. 236-241, 2008, ISBN:978-960-6766-77-0.

## II. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)

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19. I. Gavriluț, V. Tiponut, **A. Gacsádi**, L. Țepelea, *Obstacles avoidance method for an autonomous mobile robot using two IR sensors*, Journal of Electrical and Electronics Engineering, University of Oradea Publisher, pp.194-197, Vol.1, 2008, Issue 1, ISSN:1844-6035. Scopus
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### III. Articole publicate în alte reviste de specialitate și în volumele unor manifestări științifice

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2. L. Țepelea, I. Gavriluț, **A. Gacsádi**, V. Tiponut, *Image-based motion planning for two mobile robots in an environment with obstacles by using cellular neural networks*, Journal International Review of Applied Sciences and Engineering, pp.45-50, Vol. 2, No. 1, Jun. 2011, Publisher Akadémiai Kiadó ISSN 2062-0810, DOI 10.1556/IRASE.2.2011.1.7.
3. L. Țepelea, R.Reiz, I. Gavriluț, **A. Gacsádi**, *A CNN based Algorithm for Medical Image Correlation*, Journal of Computer Science and Control Systems, University of Oradea Publisher, pp.69-72, Vol. 4, Issue 2, 2011, ISSN:1844-6043.
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## E. Granturi/proiecte contracte de cercetare

### I. Granturi/proiecte internaționale obținute prin competiție

1. HURO/0901/028, *Laboratory Practical Teaching for Applied Engineering Sciences*, 2011-2012, **A. Gacsádi** - membru.
2. HURO/0802/100, *Realization of Hungarian-Romanian R&D Laboratory for the Development of Major Projects in Polluted Terrain Cleaning*, 2011-2012, **A. Gacsádi** – membru.
3. HURO/1101/191/2.2.1., *Hungarian-Romanian Research Platform for Smart Materials Project Support*, SMARTMAT, 2013, **A. Gacsádi** – membru.
4. Phare CBC RO-HU 2004/940.01.01.15, *Centru de integrare științifică euroregională Oradea - Debrecen*, **A. Gacsádi** - membru.
5. Domus Hungarica Scientiarum et Artium, Hungarian Academy of Sciences, *Adaptive image enhancement by using cellular neural network*, Research report, Image Processing and Neurocomputing Department, University of Veszprém, 2002, **A. Gacsádi** - Director de proiect.

6. Domus Hungarica Scientiarum et Artium, Hungarian Academy of Sciences, *An analogic CNN algorithm for following continuously moving objects*, Research report, Analogical and Neural Computing Laboratory, (DNS-7-1999), Budapest, MTA SZTAKI, 1999, **A. Gacsádi** - Director de proiect.

## II. Granturi/proiecte naționale obținute prin competiție

1. PNCDI PN II, 2009-2010-2011, Idei 668/2008, Contract Nr. 645/19.01.2009, *Dezvoltarea unor metode de prelucrare și analiză a imaginilor computer tomografice utilizând rețele neuronale celulare și integrarea acestora într-un sistem de asistare a diagnozei medicale*, **A. Gacsádi** - Director de proiect.
2. Grant CNCISIS A 473/2006-2007, *Utilizarea tehnologiei rețelelor neuronale celulare pentru navigația roboților mobili autonomi*, **A. Gacsádi** - Director de proiect.
3. Contract de cercetare Nr. 1120/2005, Institutul programelor de Cercetare al Fundației Sapientia, Cluj-Napoca, *Implementarea unor metode de îmbunătățire a imaginilor pe chip CNN-UM emulat digital*, **A. Gacsádi** - Director de proiect.
4. Contract de cercetare Nr. 1446/2004, Institutul programelor de Cercetare al Fundației Sapientia, Cluj-Napoca, *Proiectarea unor metode de prelucrare a imaginilor utilizând rețele neuronale celulare și aplicații ale acestora*, **A. Gacsádi** - Director de proiect.
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6. Grant CNCISIS A 639/2005-2006-2007, *Mediu integrat pentru deplasarea asistată a persoanelor cu handicap vizual*, **A. Gacsádi** - membru.
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## III. Contracte de cercetare cu mediul socio-economic

1. Contract de cercetare Nr. 2386/28.02.2005, *Senzor inteligent realizat cu microconvertorul ADuC 812*, executant Universitatea Oradea, beneficiar SC. Toner S.R.L. Oradea, **A. Gacsádi** - Director de proiect.
2. Contract de cercetare Nr. 4815/22.04.2005, *Cercetarea unor schimbătoare de căldură cu randament îmbunătățit față de cele clasice*, membru în echipa de cercetare, executant Universitatea Oradea, beneficiar Trangexs S.A. Oradea, **A. Gacsádi** - membru.
3. Contract de cercetare Nr. 16413/08.12.2004, *Modernizarea tabloului de comandă a mașinii de debitat poliuretan în plan orizontal*, membru în echipa de cercetare, executant Universitatea Oradea, beneficiar Eurofoam S.R.L. Baia Mare, **A. Gacsádi** - membru.
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