Curriculum vitae

Informaţii personale

Nume/Prenume	**Vajda Tamás**
Adresa	Sîngeorgiu de Mures, str. Nordului nr. 26A
Telefon	0742892437
E-mail	vajdat@ms.sapientia.ro
Cetăţenia	română
Data şi locul naşterii	25 mai 1980, Tîrgu Mureş, judeţul Mureş
Funcţia şi locul de muncă (universitatea, facultatea, catedra)	Fundaţia Sapientia-Universitatea Sapientia Tîrgu. Mureş, Facultatea de Ştiinţe Tehnice şi Umaniste Tîrgu Mureş, Departamentul de Inginerie Electrică

Educaţie şi formare

- 2013 *Diplomă de doctor în Calculatoare*
- 2005-2013 Universitatea Tehnică din Cluj Napoca, de Doctorand Domeniu Calculatoare
    - Doctorand
- 2003-2004 Universitatea Petru Maior, Tg-Mureş
    - Masterat: Sisteme automate avansate de conducere a proceselor industriale şi energetice
- 1998-2003 Universitatea Petru Maior, Tg-Mureş
    - Facultatea de Inginerie
    - Specializarea: Automatizări şi Informatică Industrială – şef promoţie
- 1994–1998 Liceul Teoretic Bolyai Farkas, Tg-Mureş
    - Profil: Matematică-fizică

Experienţa profesională

- 2014-prezent: Universitatea Sapientia - Lector
- 2009-2014: Universitatea Sapientia-asistent universitar
- 2005-2009: Fundatia Sapientia Universitatea Sapientia-preparator
- 2003-2011: Fundaţia Română – Olandeză Euromconect - Inginer de sistem

- 2003–2005: S.C. Napa Impex SRL -Inginer

Alte funcţii deţinute (nedidactice)

- 2003-2011: Fundaţia Română – Olandeză Euromconect - Inginer de sistem
- 2003–2005: S.C. Napa Impex SRL -Inginer

Limbi străine cunoscute
Engleză, Germană

Activitatea didactică

Reţele de calculatoare din 2007 –prezent la Fundaţia Sapientia-Universitatea Sapientia,
Procesări de imagine din 2004-prezent la Fundaţia Sapientia- Universitatea Sapientia,
Recunoaşterea formelor din 2004-prezent la Fundaţia Sapientia- Universitatea Sapientia,
Inteligenţă artificială 2005-2006 la Fundaţia Sapientia- Universitatea Sapientia
Sisteme distribuite – din 2005-prezent la Fundaţia Sapientia- Universitatea Sapientia

Domeniul de cercetare
Ingineria calculatoarelor – Prelucrarea secvenţelor video, Reţele de calculatoare

Membru în organizaţii ştiinţifice şi profesionale
Membru la Hungarian Technical Scientific Society of Transylvania

Data,
18.09.2016

Lista de publicatii

A. Teza de doctorat.
Titlul tezei:***Înțelegerea comportamentului uman în secvente de imagini*** -2013
Conducătorul tezei de doctorat: Prof. dr. ing. Sergiu Nedevschi
Universitatea Tehnica din Cluj Napoca
Calficiativ: foarte bine

B. CĂRŢI

B5. Capitole de cărţi publicate în străinătate

1. Lőrinc Marton, Piroska Haller, Tamas Szabó, Hunor Sándor, **Tamás Vajda**, and Zoltán Szantó, Network Controller for Teleoperated Mobile Robotic Agents, Springer Lecture Notes in Advances in Intelligent Systems and Computing, Vol. 301, 2014
2. Book Title: Handling Uncertainty and Networked Structure in Robot Control; Chapter: Piroska Haller, Lorinc Marton, Zoltan Szanto and Tamas Vajda, Bilateral Teleoperation in the Presence of Jitter: Communication Performance Evaluation and Control, p. 279-298, Visual Perception and Intelligent Control for Single and Multiple Robots, Eds. L. Tamas, L. Busoniu, Springer, 2016.

C. Lucrări ştiinţifice publicate

C1. Lucrări ştiinţifice publicate în reviste cotate ISI

3. Lőrinc Márton • Piroska Haller • Tamás Vajda • Zoltán Szántó • Hunor Sándor • Tamás Szabó Data transfer regulator for wireless teleoperation Transactions of the Institute of Measurement and Control 03/2015; DOI:10.1177/0142331215571119 · 0.962 Impact Factor

C2. Lucrări ştiinţifice publicate în reviste indexate în baze de date internaţionale (indicaţi şi baza de date).

4. L. Marton, Z. Szanto, P. Haller, T. Szabo, H. Sandor, **T. Vajda**, Bilateral teleoperation of wheeled mobile robots working in common workspace, IAES International Journal of Robotics and Automation, Vol. 3, No. 1, March 2014. (The Journal is indexed in: Google Scholar, DOAJ, Directory of Open Access Journals, ProQuest, EBSCO, BASE (Bielefeld Academic Search Engine), Indonesian Publication Index (IPI), CORE (COnnecting REpositories) - Knowledge Media Institute (KMi))

5. **Tamás VAJDA**, Action Recognition Using DTW and Petri Nets, Studia Universitatis Babes-Bolyai Series Informatica, Volume LV, Number 2 (June 2010), pp 69-78, ISSN: 1224-869x. (The Journal is indexed in: MathSciNet (American

Mathematical Society), Zentralblatt MATH (European Mathematical Society), EBSCO Publishing, Ulrichsweb.com (TM) Serials Solutions, ProQuest)

6. **Tamás VAJDA**, "Using Dynamic Time Warping Algorithm Optimization For Fast Human Action Recognition",Acta Technica Napocensis – Electronics and Telecommunication, Volume 51, Number 2/2010 pp.32-37, ISSN 1221-6542. **(**The Journal is indexed in ProQuest CSA's Technology Research Database (TRD), ProQuest Central, Metadex, Scirus , ArXiv , getCITED, GoogleScholar , JournalSeek, CERN Documents Server (CDS), NEBIS, ICAAP, German National Library of Science and Technology, Computer Science Bibliography, CiteSeer , IndexCopernicus (ICV 2009-4.19 2010-4.94, 2011-5,04) , VINITI (Russia) , Ulrich's Periodicals Directory , PerAbs , EBSCOHost Online Research Databases)

7. A. Aszalos, J. Domokos, **T. Vajda**, S. T. Brassai, L. Dávid: Exambrev - Integrated System for Patent Application, Acta Universitatis Sapientiae, Electrical and Mechanical Engineering, 2 (2010) 73-86 (The Journal is indexed in: EBSCO Publishing)

C4. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS (altele decât cele din baze de date internaţionale).

8. **Tamás Vajda**, Sergiu Nedevschi : Articulated Pose Estimation in Surveillence Videos ACAM Scientific Journal, Vol. 20 no.2, 2011, pp. 111-118, ISSN:1221-437X (B)

C6. Lucrări ştiinţifice publicate în volumele manifestărilor ştiinţifice

Conferinţe indexate în baze de date internaţionale (IEEE Xplore)

9. Lorinc Marton, Zoltan Szanto, Tamas Vajda, Piroska Haller Nonlinear PI Rate Control in Bottleneck Links: Application to Teleoperation Systems 5th IFAC Workshop on Distributed Estimation and Control in Networked Systems 2015 (IFAC-PapersOnline)

10. **Tamas Vajda**, Lorinc Marton, Zoltan Szanto, Piroska Haller, The Effect of JPEG Compression on Network Controller Desigened for Teleopearation System International Conference on Intelligent Computer Communication and Processing, ICCP 2014, Sept. 2014, pp. 315 - 318.

11. L. Marton, Z. Szanto, **T. Vajda**, P. Haller, H. Sandor, T. Szabo and L. Tamas, Communication Delay and Jitter Influence on Bilateral Teleoperation, IEEE 22nd

Mediterranean Conference on Control and Automation, 2014, Palermo, Italy, pp. 1171 - 1177

12. L. Marton, J. Artigas, P. Haller and **T. Vajda**, Passive Bilateral Teleoperation with Bounded Control Signals, IEEE 11th International Conference on Industrial Informatics, Bochum, Germany, 2013.

13. H. Sandor, T. Szabo, **T. Vajda**, P. Haller, Z. Szanto, L. Marton, Video Supported Bilateral Teleoperation System: Design and Implementation, 14'th IEEE International Symposium on Computational Intelligence and Informatics, Budapest, Hungary, 2013.

14. **Tamás Vajda**, Ábrám Zoltán - Pictorial Structure Based People Detection and Pose Estimation in Videos. International Conference on Intelligent Computer Communication and Processing, ICCP 2011, 25-27 Aug. 2011, pp. 315 - 318.

15. **Tamas Vajda** Behavior Recognition Using Pictorial Structures and DTW 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, Mai 28-29 2010, vol3, pp 198-201

16. **Tamás Vajda** Behavior Recognition Based on Dynamic Programming and Concurrence Probabilistic Petri Nets IEEE 6th International Conference on Intelligent Computer Communication and Processing, ICCP 2010, Aug 26-28. 2010, pp. 179 – 184, ISBN: 978-1-4244-8229-0

17. **Tamás Vajda**, Behavior Recognition Using Template Matching, The 4th edition of the Interdisciplinarity in Engineering International Conference, pp. 283-288, November 12-13, 2009, ISSN 1843-780X

18. József Domokos, **Tamás Vajda**, Sándor Tihamér Brassai, László Dávid, Attilla Aszalos: Development of EXAMBREV Integrated System for Patent Application, The 4th edition of the Interdisciplinarity in Engineering International Conference November 12-13, *2009*

19. **Tamás Vajda** Action Recognition Based on Fast Dynamic-Time Warping Method IEEE 5th International Conference on Intelligent Computer Communication and Processing, ICCP 2009, Aug 27-29. 2009, pp. 127 – 131, ISBN: 978-1-4244-5007-7

20. **Tamás V.** and Lőrinc M.: General framework for human object detection and pose estimation in video sequences, In 5th IEEE International Conference on Industrial Informatics, 23-27 June 2007, Viena, pp. 467 – 472, ISSN: 1935-4576

21. **Tamás Vajda**, Emőke Szatmári, Sergiu Nedevschi -Human Body Detection and Tracking in Video Sequences Using Chamfer Matching. IEEE 3th International

Conference on Intelligent Computer Communication and Processing, ICCP 2007, 6-8 Sept. 2007, p. 141-146, ISBN:978-1-4244-1491-8

Alte conferinţe

22. T. Szabo, T. Vajda Robot detection based on visual information. Image 23th International Conference on Computer Science and Education, Satu Mare, Romania, pp. 225-228, Sibiu 2013, ISSN 1842-4546
23. T. Vajda, P. Haller, L Marton, Performance Evaluation of periodical communication over WLAN. Image 23th International Conference on Computer Science and Education, Sibiu, Romania, pp. 225-228, October 2013, ISSN 1842-4546
24. Tamás Vajda : Moving object detection in video sequences using Integral Image 20th International Conference on Computer Science and Education, Satu Mare, Romania, pp. 225-228, October 2010, ISSN 1842-4546
25. Tamás Vajda, László Bakó, Sándor Tihamér Brassai. Using dynamic programing and Neural Network to Match Human Action, 11th International Carpathian Control Conference ICCC 2010, May 26-29 2010, Eger Hungary, pp 231-234.
26. József Domokos, Tamás Vajda, Sándor Tihamér Brassai, László Dávid – Integrated System for Patent Application Examination (EXAMBREV), CSCS17 - The 17th International Conference on Control Systems and Computer, 2009
27. Attila Vajda, Tamás Vajda – Software Development Lifecycles Models Comparison from Practitioner's Approach, CSCS17 - The 17th International Conference on Control Systems and Computer, 2009
28. Tamás Vajda : Attitude detection methods usability in behavior recognition 9th International Conference on Computer Science and Education, Tg-Mures, Romania, pp. 139-144, October 2009, ISSN 1842-4546
29. Tamás Vajda : Hierarchical human behavior recognition 8th International Conference on Computer Science and Energetics-Electrical Engineering, Sumuleu-Ciuc, Romania, pp. 139-144, October 2008, ISSN 1842-4546
30. Vajda Tamás: Fast Multi-View Human detection and attitude estimation , CSCS16 - The 16th International Conference on Control Systems and Computer, 2007
31. Tamás Vajda : Human Body Detection and Tracking in Video Sequences Using Chamfer Matching, 7th International Conference on Computer Science and Education, Oradea, Romania, pp. 54-58, October 2007, ISSN 1842-4546.

G. Contracte de cercetare (menţionaţi calitatea de director sau membru)

Nr	Titlul proiectului	Beneficiarul		Anul
1	Sistem informatic integrat, bazat pe inteligenta artificiala, pentru examinarea cererilor de brevet de invenţie - EXAMBREV	CNCSIS, PN II, PROGRAMUL 4 - "Parteneriate in domeniile prioritare" Nr. Proiect: 2859	Member	2007 - 2010
2	Reconfigurable control of robotic systems over networks	PN-II-RU-TE-2011-3-0005	Member	2011-2015
3	Data traffic control in wireless networks for moving agents	AISS	Director	2015

Data,
18.09.2016