

Dr.-Ing Akos Csiszar

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Born on June 7, 1985 in Satu Mare (Romania)



Scientific Career

Since 2013	Leader of the junior research group Intelligent Production Systems at the Graduate School of Excellence advanced Manufacturing Engineering
2012 - 2013	Scientific researcher at the Institute for Control Engineering of Machine Tools and Manufacturing Units, University of Stuttgart
2012	Joint-PhD in Robotics, Technical University of Cluj-Napoca, Romania University of Stuttgart, Germany
2010 - 2012	Visiting Scientist at the Institute for Control Engineering of Machine Tools and Manufacturing Units, University of Stuttgart
2009 - 2012	PhD student in Robotics, Technical University of Cluj-Napoca, Romania
2009	Study of Mechatronics at the University of Duisburg-Essen, Germany
2004 - 2009	Study of Mechatronics at the Technical University of Cluj-Napoca, Romania

Scholarships, Awards and Faculty Functions

2012	Visiting researcher at the Institute of Control Engineering of Machine Tools and Manufacturing Units, University of Stuttgart, Germany
2011	DAAD fellow
2009	Erasmus fellow

Ten most important publications

* Publications jointly together with UoA-researchers involved within this IRTG

§ Publications jointly together with USTUTT-researchers involved within this IRTG

A) Published in publication outlets with scientific quality assurance and book publications:

1. Brisan, C.; Csiszar, A.: Computation and Analysis of the Workspace of a Reconfigurable Parallel Robotic System. Mechanism and Machine Theory, 46(11), p. 1647-1668, 2011.

2. § Atmosudiro, A.; Csiszar, A.; Karim, A.; Keinert, M.; Lechler, A.; Verl, A.: Productivity Increase through Joint Space Path Planning for Robot Machining, IEEE European Modelling Symposium 2014, p. 257-262, 2014.
3. § Lapusan, C.; Fodor, F.; Csiszar, A.; Verl, A.; Brisan, C.: Aspects concerning the modeling of robots with increased dexterity. Proceedings of the ISR/Robotik 2014; 41st International Symposium on Robotics, p. 724-729, 2014.
4. § Brisan, C.; Boanta, C.; Csiszar, A.; Verl, A.: Aspects Concerning Kinetostatic Properties of Parallel Robots. Proceedings of the ISR/Robotik 2014; 41st International Symposium on Robotics, p. 539-546, 2014
5. § Csiszar, A.; Boanta, C.; Hoher, S.; Brisan, C.; Verl, A.: Optimal Design Concept of a Reconfigurable Haptic Device. Book chapter in Enabling Manufacturing Competitiveness and Economic Sustainability, Springer, p. 267-272, 2014.
6. § Vasiu, R.-V.; Rusu, C.; Csiszar, A.; Brisan, C.; Verl, A.: Conceptual development of a reconfigurable parallel robot. IEEE/ASME International Conference on Advanced Intelligent Mechatronics, p. 1193-1198, 2013.
7. § Csiszar, A.; Drust, M.; Dietz, T.; Verl, A.; Brisan, C.: Dynamic and Interactive Path Planning and Collision Avoidance for an Industrial Robot Using Artificial Potential Field Based Method. Book chapter in Mechatronics, Recent Technological and scientific Advances, Springer, p. 413-421, 2011.
8. Csiszar, A.; Brisan, C.: Workspace Analysis of the 6 Degrees of Freedom PARTNER Parallel Robot. Solid State Phenomena, 166-167, p. 155-160, 2010.
9. Capustiac, A.; Csiszar, A.; Brisan, C.: Aspects concerning dynamics modeling for a class of reconfigurable driving simulators, IEEE International Conference on Automation Quality and Testing Robotics, 3, 6 pages, 2010.
10. Csiszar, A.; Brisan, C.: Fault-Tolerant Safety Concept for Human Robot Interaction. 6th International Conference INTER-ENG, Interdisciplinarity in Engineering, October 4-5, 2012, Tirgu Mures, Romania, 2012.

B) Other publications

C) Patents

Supervised graduate students since graduation year 2011

No.	Last Name, First Name	Degree	Title of the dissertation	Duration of thesis

Most important research grants since 2011

No.	Research Project	Funding Period	Name(s) of the principal investigator(s)	Funding source and reference number
1	Motion Cueing 1Algorithms – Control and Implementation	2010 - 2011	Csiszar, A.	DAAD Fellowship A0977519