

Aykut Cihan SATICI

LIST OF PUBLICATIONS

Book Chapter

Volkan Patoglu and Aykut Cihan Satıcı, “*Optimal Design of Haptic Interfaces*”, Advances in Haptics, IN-TECH, 2010. (*This free access book chapter has been downloaded over 4000 times from unique IP addresses.*)

Refereed Journal Articles

1. Hasan Alihusain Poonawala, Aykut C Satıcı, Hazen Eckert, and Mark W. Spong, “*Decentralized Connectivity Preserving Formation Control with Collision Avoidance for Nonholonomic Wheeled Mobile Robots*,”, IEEE Transactions on Control of Network Systems, 2014
2. Aykut Cihan Satıcı, Hasan Poonawala, and Mark W. Spong “*Robust Optimal Control of Quadrotor UAVs*,”, Access, IEEE, vol. 1, no., pp.79,93, 2013
3. David Tick, Aykut Cihan Satıcı, Jinglin Shen, and Nicholas Gans, “*Tracking Control of Mobile Robots Localized via Chained Fusion of Discrete and Continuous Epipolar Geometry, IMU and Odometry*,”, IEEE Transactions on Cybernetics, vol.43, no.4, pp.1237,1250, Aug. 2013
4. Aykut Cihan Satıcı, Ahmetcan Erdogan, and Volkan Patoglu, “*A Multi-Lateral Rehabilitation System*,”, Turkish Journal of Electrical Engineering and Computer Sciences, vol. 19(5), 2011. (*Selected for journal publication by conference PC members.*)
5. Aykut C Satıcı, Mark W. Spong, “*Swarming With Connectivity Via Lagrange-Poincaré Equations*,”, To be submitted by the end of January 2015, included in the dissertation (2014).
6. Hasan A Poonawala, Aykut C Satıcı, Mark W. Spong, “*Leader-follower Formation Control of Nonholonomic Wheeled Mobile Robots using Only Position Measurements*,”, To be submitted by the end of January 2015, included in the dissertation (2014).

Refereed International Conference Proceedings

1. Aykut Cihan Satıcı, and Mark W. Spong, “*Global Swarming While Preserving Connectivity via Lagrange-Poincaré Equations*,”, World Congress of the International Federation of Automatic Control, (IFAC) 2014, 24-29 Aug 2014
2. Aykut Cihan Satıcı, Hasan Poonawala, Hazen Eckert, and Mark W. Spong, “*Connectivity preserving formation control with collision avoidance for nonholonomic wheeled mobile robots*,”, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2013, vol., no., pp.5080,5086, 3-7 Nov. 2013
3. Hasan Poonawala, Aykut Cihan Satıcı, and Mark W. Spong, “*Leader-follower formation control of nonholonomic wheeled mobile robots using only position measurements*,” 9th Asian Control Conference (ASCC), 2013, vol., no., pp.1,6, 23-26 June 2013
4. Aykut Cihan Satıcı, and Mark W. Spong, “*Connectivity control on Lie groups*,” 9th Asian Control Conference (ASCC), 2013, vol., no., pp.1,6, 23-26 June 2013
5. Aykut Cihan Satıcı, David Tick, Jinglin Shen, Nicholas Gans, “*Path-following control for mobile robots localized via sensor-fused visual homography*,” American Control Conference (ACC), 2013, vol., no., pp.6287,6293, 17-19 June 2013
6. Aykut Cihan Satıcı, and Mark W. Spong, “*Nonholonomic cooperative manipulation of polygonal objects in the plane*,” IEEE 51st Annual Conference on Decision and Control (CDC), 2012, vol., no., pp.2439,2446, 10-13 Dec. 2012

7. Hasan Poonawala, Aykut Cihan Satıcı, Nicholas Gans, and Mark W. Spong, “*Formation control of wheeled robots with vision-based position measurement*,” American Control Conference (ACC), 2012, vol., no., pp.3173,3178, 27-29 June 2012
8. Ahmetcan Erdogan, Aykut Cihan Satıcı, and Volkan Patoglu, “*Passive velocity field control of a forearm-wrist rehabilitation robot*,” IEEE International Conference on Rehabilitation Robotics (ICORR), 2011, vol., no., pp.1,8, June 29 2011-July 1 2011
9. M. Alper Ergin, Aykut Cihan Satıcı, and Volkan Patoglu, “*Design optimization, impedance control and characterization of a Modified Delta Robot*,” 2011 IEEE International Conference on Mechatronics (ICM), , vol., no., pp.737,742, 13-15 April 2011
10. Aykut Cihan Satıcı, Ahmetcan Erdogan, and Volkan Patoglu, “*Design of a reconfigurable ankle rehabilitation robot and its use for the estimation of the ankle impedance*,” IEEE International Conference on Rehabilitation Robotics, 2009. ICORR 2009., vol., no., pp.257,264, 23-26 June 2009
11. Ahmetcan Erdogan, Aykut Cihan Satıcı, and Volkan Patoglu, “*Design of a reconfigurable force feedback ankle exoskeleton for physical therapy*,” ASME/IFTOMM International Conference on Reconfigurable Mechanisms and Robots, 2009. ReMAR 2009., vol., no., pp.400,408, 22-24 June 2009