

ENI AWARD 2010

Debut in Research Prize

Winner

Lorenzo Fagiano

Control of tethered airfoils for high-altitude wind energy generation - Advanced control methods as key technologies for a breakthrough in renewable energy generation

Biography

Lorenzo Fagiano received the Bachelor's degree in Automotive Engineering in 2002, the Master's degree in Automotive Engineering in 2004 and the Ph.D. degree in Information and System Engineering in 2009 from Politecnico di Torino, Italy. In 2005 he worked for Fiat Research Centre, Italy, in the field of active vehicle systems. In 2007 he spent a three-months visiting period in the Optimization for Engineering Center (OPTEC) of the Katholieke Universiteit Leuven, hosted by prof. Moritz Diehl. Lorenzo Fagiano currently holds a post-doctoral position in the Complex Systems Modeling and Control group of the Department of Control and Computer Engineering of Politecnico di Torino, Italy. He participated in several national and regional research projects and he is actually technical project manager in the project "Power kites for naval propulsion" (KiteNav), funded by Piedmont Region, Italy. His main research interests include high-altitude wind energy generation using controlled tethered airfoils, constrained robust and nonlinear control, set membership theory for control purposes and automotive control systems. From January 2006 Lorenzo Fagiano co-authored 10 papers published on international journals, 1 international book chapter and about 25 papers published on international conference proceedings. He is member of IEEE, IEEE Control Systems Society, SIAM and SIAM activity groups on Optimization and on Control and Systems Theory.