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Damian Crosby, Joaquin Carrasco, Member, IEEE, William Heath, Member, IEEE, and Andrew Weightman

Abstract—

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References



Damian J. Crosby is a PhD student in the school of Mechanical, Aerospace and Civil Engineering, University of Manchester, Manchester, U.K. He received a B.Sc. in Special Effects Development from The University of Bolton, U.K., in 2010, and a M.Res. in Robotics from The University of Plymouth, U.K., in 2012. He worked as a Research Technician at The University of Manchester from 2013 to 2017, before commencing his PhD.



Joaquin Carrasco is a Lecturer at the School of Electrical and Electronic Engineering, University of Manchester, UK. He was born in Abarn, Spain, in 1978. He received the B.Sc. degree in physics and the Ph.D. degree in control engineering from the University of Murcia, Murcia, Spain, in 2004 and 2009, respectively. From 2009 to 2010, he was with the Institute of Measurement and Automatic Control, Leibniz Universitt Hannover, Hannover, Germany. From 2010 to 2011, he was a research associate at the Control Systems Centre, School of Electrical and Electronic Engineering, University of Manchester, UK.



William P. Heath is Chair of Feedback and Control in the School of Electrical and Electronic Engineering, University of Manchester, Manchester, U.K. He received the B.A. and M.A. degrees in mathematics from Cambridge University, U.K., in 1987 and 1991, and the M.Sc. and Ph.D. degrees in systems and control from the University of Manchester Institute of Science and Technology, U.K., in 1989 and 1992, respectively. He was with Lucas Automotive from 1995 to 1998 and was a Research Academic at the University of Newcastle, Australia from 1998 to 2004. His research interests include absolute stability, multiplier theory, constrained control, and system identification.



Dr. Andrew Weightman graduated in 2006 with a PhD in Mechanical Engineering from the University of Leeds. Whilst at the University of Leeds he developed rehabilitation robotic technology for improving upper limb function in adults and children with neurological impairment which was successfully utilised in homes, schools and clinical settings. In 2013 he moved to the University of Manchester, School of Mechanical, Aerospace and Civil Engineering as a Lecturer in Medical Mechatronics. Dr Weightman has research interests in biomimetic mobile robotics, rehabilitation robotics, robotics for nuclear decommissioning and collaborative robotics.

