

Biosketch of
ALESSANDRO DE LUCA



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Prof. Alessandro DE LUCA

Alessandro De Luca was born in Roma, Italy, on October 11, 1957. He received the *Laurea* degree in Electronic Engineering and the PhD in Systems Engineering from the University of Rome “La Sapienza” in 1982 and 1987, respectively. Since 2000, he is a Full Professor of Robotics, Automation, and Automatic Control at the Sapienza University of Rome. From September 2005 to April 2006, he spent a sabbatical at the Institute for Robotics and Mechatronics at DLR in Oberpfaffenhofen, Germany. Since 2013, he is the Director of the Master of Science in Control Engineering, a new Sapienza program fully taught in English.

His research interests include modeling, motion planning, and control of flexible manipulators, kinematically redundant manipulators, underactuated robots, wheeled mobile robots and mobile manipulators; physical human-robot interaction; hybrid force-velocity control; visual servoing; iterative learning; nonlinear control of nonholonomic mechanical systems; fault detection and isolation; control of locomotion platforms. He has published over 200 journal and conference papers and book chapters, receiving two best conference paper awards (ICRA 1998, BioRob 2012) and one best application paper award (IROS 2008). He is one of the authors of the PROSE-awarded *Springer Handbook of Robotics* (2008, 2016), and Editor of the book *Advances in Control of Articulated and Mobile Robots* (Springer, 2004).

For the *IEEE Transactions on Robotics and Automation*, he served as an Associate Editor (1994–98), an Editor (1998–2003), and the Editor-in-Chief (2003–04). He has been the Editor-in-Chief of the renamed *IEEE Transactions on Robotics* from its birth in 2004 until September 2008. He has been a member of the *IEEE Robotics and Automation Society (RAS)* AdCom (2008–10) and has served as RAS Vice-President for Publication Activities in 2012–13. He was General Chair of the *2007 IEEE International Conference on Robotics and Automation* held in Rome and Program Chair of the *2016 IEEE International Conference on Robotics and Automation* in Stockholm.

He is an *IEEE Fellow* (class of 2007). He received the German *Helmholtz Humboldt Research Award* for foreign scientists in 2005, and the *IEEE-RAS Distinguished Service Award* in 2009.

Between 2006 and 2012, he has been a member of the Search Committee for Physical Sciences (former Technical Sciences) of the *Körber European Science Award*, granted by the Körber Foundation. He was Chair of Panel PE7 (Systems and Communication Engineering) of the *European Research Council* for Advanced Grants evaluation in 2009, 2011, and 2013, and a member of the Scientific Advisory Board of the *Max Planck Institute for Biological Cybernetics* (from 2015 to 2017).

With the DIAG Robotics group, he was/is principal investigator in five European research projects (*PROMotion*, *PHRIDOM*, FP6 *CyberWalk*, FP6 *PHRIENDS*, H2020 *SYMPLEXITY*) and in many national projects, and participates to H2020 *COMANOID*). He was national coordinator of the MIUR PRIN project *SICURA* (2008-10) and european coordinator of the FP7 project *SAPHARI* (2011-15).