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## Search Committee Physical Sciences

In order to observe the different areas as comprehensively as possible in the search for suitable awardees and to strengthen the European component of the prize at the same time, the Körber Foundation set up an international Search Committee in the field of physical sciences. Renowned scientists from all over Europe who represent the different scientific sectors have the task of finding the best European scientists with the most innovative research projects and then of suggesting them to the Trustee Committee for decision-making. The Search Committee Physical Sciences is composed as follows:



**Prof. Dr. Sir John O'Reilly (Chair)**

Vice-Chancellor of Cranfield University, Cranfield

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**Prof. Dr. Alessandro De Luca**

Dipartimento di Informatica e Sistemistica, Università di Roma

▶ [Brief Vita](#)



**Prof. Dr. Martin Wegener**

Institute of Applied Physics, Karlsruhe Institute of Technology, Germany

▶ [Brief Vita](#)



**Prof. Dr. Alexander Wokaun**

General Energy Research Department,

Paul Scherrer Institute, Villigen, Switzerland

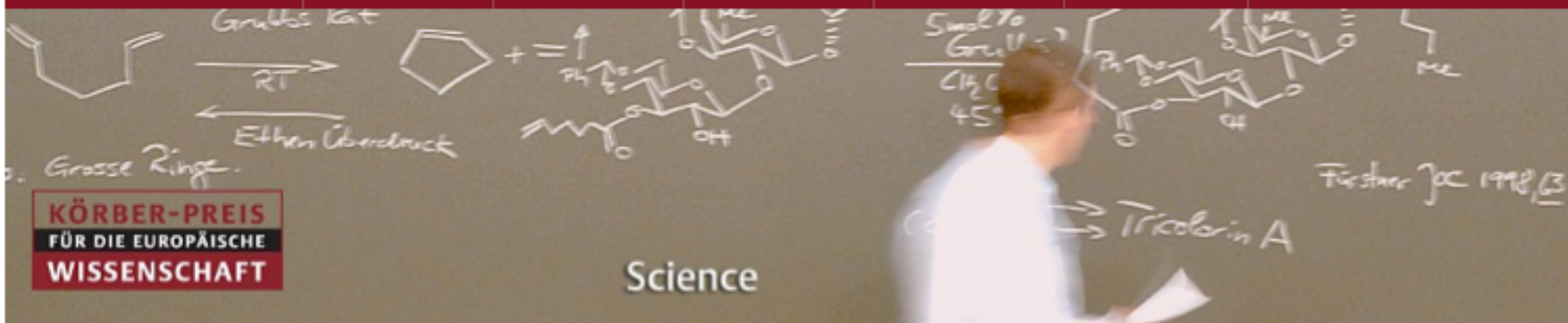
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**Berlin Foreign  
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## Professor Dr. Alessandro De Luca



Photo: private

Alessandro De Luca received his PhD in Systems Engineering in 1987. Since 2000, he is Professor at the Department of Computer and System Science of Sapienza Università di Roma. His research interests are in Robotics and Automatic Control. He developed basic techniques for dynamic modeling, motion planning and sensory feedback control of a variety of robotic systems, including manipulators with flexible joints and links, wheeled mobile robots with nonholonomic constraints, kinematically redundant and underactuated robots, and locomotion interfaces. He contributed to robot autonomy using visual servoing, iterative learning, and hybrid force-velocity control methods, as well as to model-based nonlinear control of dynamical systems. His current scientific focus is on safe physical human-robot interaction and on the automatic detection

and isolation of robot faults.

Alessandro De Luca is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), class of 2007, has been the founding Editor-in-Chief of the IEEE Transactions on Robotics, the leading journal in the field, and will be Vice-President for Publication Activities of the IEEE Robotics and Automation Society. He is chairman of the Panel for the Advanced Grants evaluation of the European Research Council. De Luca published more than 160 journal and conference papers and book chapters, receiving two best paper awards at major robotics conferences. With about 2700 citations, his h-index is 31. In 2005, he received the Helmholtz Humboldt Research Award.

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