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Sommario/riassunto	This book constitutes the thoroughly refereed proceedings of the First International Conference of Advancements in Automation, Robotics and Sensing, ICAARS 2016, held in Coimbatore, India, in June 2016. The 83 revised selected papers were selected from 159 submissions and focus on industrial robotics, mobile robotics, adaptive control, vision system, smart materials, and teleoperation.