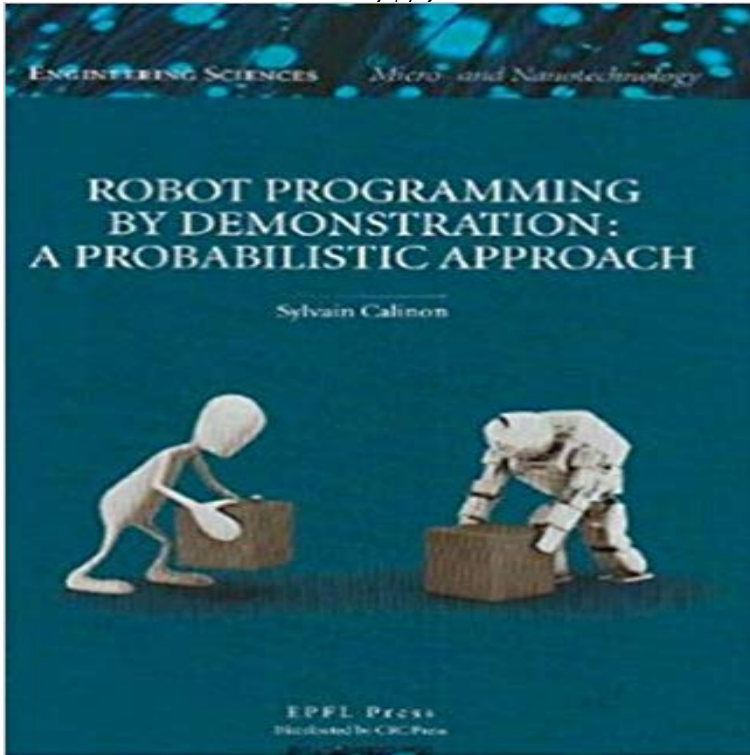


Robot Programming by Demonstration (Engineering Sciences. Micro- And Nanotechnology)



Also referred to as learning by imitation, tutelage, or apprenticeship learning, Programming by Demonstration (PbD) develops methods by which new skills can be transmitted to a robot. This book examines methods by which robots learn new skills through human guidance. Taking a practical perspective, it covers a broad range of applications, including service robots. The text addresses the challenges involved in investigating methods by which PbD is used to provide robots with a generic and adaptive model of control. Drawing on findings from robot control, human-robot interaction, applied machine learning, artificial intelligence, and developmental and cognitive psychology, the book contains a large set of didactic and illustrative examples. Practical and comprehensive machine learning source codes are available on the book's companion website: <http://www.programming-by-demonstration.org>

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that includes mechanical . A program is how a robot decides when or how to do something. In the .. cruise missiles, the Entomopter, and the Epson micro helicopter robot. . Aim of the projects is a social robot learns task goals from human demonstrations