



Intelligent Systems and Control Principles and Applications

Laxmidhar Behera, Indrani Kar

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Intelligent Systems and Control: Principles and Applications is a textbook for undergraduate level courses on intelligent control, intelligent systems, adaptive control, and non-linear control. The book covers primers in neural networks, fuzzy logic, and non-linear control so that readers can easily follow intelligent control techniques. Design principles for fuzzy and neural control schemes have been enumerated with an easy understanding for readers. Stability analysis of control systems have been provided with rigour. Intelligent control systems have been simulated for benchmark non-linear systems across disciplines such as electrical system, electro-mechanical systems, and process control systems. Details of real-time experiments for cart-pole inverted pendulum system and seven degrees of freedom (DOF) robot manipulator using intelligent control schemes have been included in the book to illustrate efficacy of these advanced control schemes. A chapter on quantum neural networks and its application has been included to illustrate the importance of the emerging research in quantum computational intelligence in control. Many examples with Matlab codes have been provided for readers to comprehend the subject matter provided in this book.

Each chapter includes a set of exercise problems for readers to get well-versed with the subject. C-codes for selected exercise problems have been included in the CD accompanying the book. Simulation results and experimental videos are also included in the CD. This book can be used as a reference for courses such as Artificial Neural Networks and Fuzzy Logic, Artificial Intelligence, Instrumentation and Control, and Advanced Control Systems. Also practicing engineers in R&D sectors will be greatly benefitted from this book.

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