

Preface

Intelligent control has dramatically changed the face of industrial control engineering; it is a rapidly developing, complex and challenging field with great practical importance and potential. Because of the rapidly developing and interdisciplinary nature of the subject, there are only a few books including the general know-how in designing, implementing and operating intelligent control systems. The book introduces the traditional control techniques and contrasts them with intelligent control, and presents several recent methods in how to design intelligent identifiers and controllers via neural networks, fuzzy logic, and neural fuzzy systems. A variety of applications, most in the areas of robotics and mechatronics, but with others including building structure and process/production control are also illustrated as design examples. The book is suitable for advanced undergraduate students and graduate engineering students. In addition, practicing engineers will find it appropriate for self-study.

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