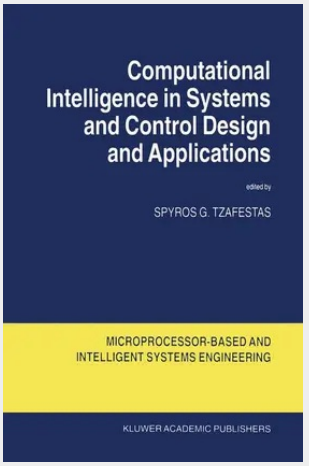
Tzafestas

Computational Intelligence in Systems and Control Design and Applications

The field of computational intelligence (CI) has expanded rapidly during recent years with a large and still increasing range of applications. This book contains a cohesive set of thirty contributions that cover a wide, well-selected range of topics. The book is organized in the following five parts: - Part I: Neural network-based intelligent estimation and control - Part II: Fuzzy logic-based intelligent estimation and control - Part III: Genetic algorithm-based system analysis and design - Part IV: Hybrid intelligent techniques in system analysis and control - Part V: Computational intelligence in engineering applications Parts I-IV include general overviews, new techniques and practical CI algorithms for system analysis, identification, optimization and control, and Part V contains nine important applications of CI dealing with robot control, collision avoidance of dangerous ships, automated visual inspection, control of fed-batch bioprocesses, identification of naval turbochargers, semi-active suspension design of ground vehicles, ecological populations' modeling, vehicle navigation, state estimation of electric power systems, and multi-robot cooperative control. The book can be used as a reference volume by researchers and practitioners in the field, and as a rich unified information source by teachers and students in related postgraduate programs, thus saving considerable time in searching the scattered literature in the field.



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