



Computational Intelligence in Fault Diagnosis (Advanced Information and Knowledge Processing)

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This book presents the most recent concerns and research results in industrial fault diagnosis using intelligent techniques. It focuses on computational intelligence applications to fault diagnosis with real-world applications used in different chapters to validate the different diagnosis methods. The book includes one chapter dealing with a novel coherent fault diagnosis distributed methodology for complex systems.

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Editorial Review

Review

From the reviews:

"This book is a collection of 11 chapters written mostly by authors from European countries and Malaysia. The focus is on fault diagnosis using computational intelligence techniques. ... This book will be useful to doctoral students interested in the application of neural and neural-fuzzy techniques to diagnose problems arising in mechanical and aeronautical engineering disciplines." (Rao Vemuri, Computing Reviews, January, 2007)

From the Back Cover

Presenting the latest developments and research results on fault diagnosis approaches using computational intelligence methodologies, this book opens with a review of the state-of-the-art before moving on to focus on various theoretical aspects of computational intelligence methodologies applied to real-world fault diagnosis problems.

Chapters deal with topics such as fuzzy sets applications to fault diagnosis, neural network based fault diagnosis applications and neuro-fuzzy techniques for fault diagnosis. The last chapter considers the problem of diagnosing large scale complex systems using local agents which, in particular, can be implemented using computational intelligence based fault diagnosis techniques. Several case studies are used including applying computational intelligence techniques to aero-engines fault diagnosis and diagnosing faults to various industrial devices, such as a flow control valve and a hydraulic installation in a rolling mill plant.

Computational Intelligence in Fault Diagnosis presents the most recent concerns and research results in industrial fault diagnosis using intelligent techniques, and will be of interest to application engineers/technologists, graduates and researchers wishing to apply these techniques, enhance their knowledge, as well as build up a foundation for further study.

Users Review

From reader reviews:

Antonia Wagner:

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