Record Nr. UNINA9910785549003321 Autore Teshima Shoichi Titolo Quality recognition and prediction: smarter pattern technology with the Mahalanobis-Taguchi system / / Shoichi Teshima, Yoshiko Hasegawa, Kazuo Tatebayashi Pubbl/distr/stampa New York:,: Momentum Press, LLC,, [2012] ©2012 **ISBN** 1-283-89601-X 1-60650-344-8 Edizione [1st ed.] Descrizione fisica 1 online resource (242 p.) 621.3819598 Disciplina Soggetti Pattern recognition systems Taguchi methods (Quality control) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Foreword -- Preface -- Acknowledgments --1. Pattern recognition and the MT system -- 1.1 Overview of pattern recognition and the fields of application -- 1.2 Standard execution procedure for pattern recognition -- 1.3 Fields with substantial experience in the use of MT system applications --2. Merits of the MT system and its computation methods -- 2.1 Characteristics shared by all MT system components -- 2.2 Features of the MT method -- 2.3 Features of the T method -- 2.4 The MT system computation formulas --3. Data handled by the MT system and feature extraction -- 3.1 Use of measured values in an unmodified form -- 3.2 Performing feature extraction -- 3.3 Feature extraction technique from character pattern -- 3.4 Feature extraction technique from waveform pattern -- 3.5 Differences between other waveform features and variation values/abundance values --4. MT method application procedure and important points to heed --4.1 Example of character recognition -- 4.2 Example of weather prediction --5. T method application procedures and key points -- 5.1 Yield

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Sommario/riassunto

The MT system is a diagnostic and predictive method for analyzing patterns in multivariate data that has provided benefits in many diverse applications over the past decade or so. It has proven itself superior in many cases to more traditional artificial intelligence applications such as neural nets.