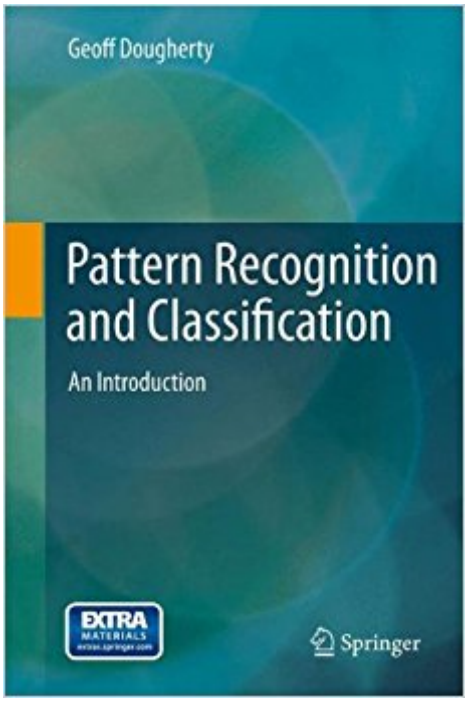
Pattern Recognition And Classification: An Introduction



Synopsis

The use of pattern recognition and classification is fundamental to many of the automated electronic systems in use today. However, despite the existence of a number of notable books in the field, the subject remains very challenging, especially for the beginner. Pattern Recognition and Classification presents a comprehensive introduction to the core concepts involved in automated pattern recognition. It is designed to be accessible to newcomers from varied backgrounds, but it will also be useful to researchers and professionals in image and signal processing and analysis, and in computer vision. Fundamental concepts of supervised and unsupervised classification are presented in an informal, rather than axiomatic, treatment so that the reader can quickly acquire the necessary background for applying the concepts to real problems. More advanced topics, such as semi-supervised classification, combining clustering algorithms and relevance feedback are addressed in the later chapters. This book is suitable for undergraduates and graduates studying pattern recognition and machine learning.

Book Information

Hardcover: 196 pages

Publisher: Springer; 2013 edition (October 29, 2012)

Language: English

ISBN-10: 1461453224

ISBN-13: 978-1461453222

Product Dimensions: 6.3 x 0.7 x 9.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 3.3 out of 5 stars 3 customer reviews

Best Sellers Rank: #700,210 in Books (See Top 100 in Books) #92 inÂ Books > Science & Math > Physics > Chaos Theory #146 inÂ Books > Computers & Technology > Computer Science > AI & Machine Learning > Computer Vision & Pattern Recognition #178 inÂ Books > Textbooks > Computer Science > Algorithms

Customer Reviews

From the reviews:â œThe book is a concise introduction to the concepts of pattern recognition and classification. â | this book is accessible to mathematicians, computer scientists or biomedical engineers. The material of the book is presented in a very simple and accessible way. The author gives many examples presenting the notations and problems which are considered, so it makes the learning easier. â | chapters end up with exercises, which help to consolidate the gained

knowledge.â • (Krzystof Gdawiec, Zentralblatt MATH, Vol. 1263, 2013)

The use of pattern recognition and classification is fundamental to many of the automated electronic systems in use today. However, despite the existence of a number of notable books in the field, the subject remains very challenging, especially for the beginner. Pattern Recognition and Classification presents a comprehensive introduction to the core concepts involved in automated pattern recognition. It is designed to be accessible to newcomers from varied backgrounds, but it will also be useful to researchers and professionals in image and signal processing and analysis, and in computer vision. Fundamental concepts of supervised and unsupervised classification are presented in an informal, rather than axiomatic, treatment so that the reader can quickly acquire the necessary background for applying the concepts to real problems. More advanced topics, such as estimating classifier performance and combining classifiers, and details of particular project applications are addressed in the later chapters. This book is suitable for undergraduates and graduates studying pattern recognition and machine learning.

Very expensive and not a good book. Not worth more than $90 at all. The worse a book, the more expensive it is. I have already returned it.

Pattern recognition has more than its fair share of weighty tomes, most of which are unintelligible to most of us after about chapter 3! This book is exactly what the field needs - a clear introduction, accessible to a variety of audiences, and applicable to a variety of classification problems. It is very well organized and builds the key concepts steadily, using excellent, clear illustrations and useful, practical examples. The author builds up the reader’s confidence by using general ideas in linear algebra and statistics, rather than overwhelming him/her with mathematical detail, so that learning becomes almost painless. Clearly this approach has been honed by teaching the material for many years.

Suddenly the field of pattern recognition has become accessible to all. Clear and insightful writing, amazing diagrams (most in color) and incisive worked examples. This is a tour de force in a slim volume. Great for self study, and would make an excellent class text too.

Guide Fifth Edition (Jane's Recognition Guides) WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (IARC WHO Classification of Tumours) WHO Classification of Head and Neck Tumours (IARC WHO Classification of Tumours) WHO Classification of Tumours of the Lung, Pleura, Thymus and Heart (IARC WHO Classification of Tumours) WHO Classification of Tumours of the Urinary System and Male Genital Organs (IARC WHO Classification of Tumours) WHO Classification of Tumours of Soft Tissue and Bone (IARC WHO Classification of Tumours) WHO Classification of Tumours of Haematopoietic and Lymphoid Tissue [OP] (IARC WHO Classification of Tumours) WHO Classification of Tumours of Endocrine Organs (IARC WHO Classification of Tumours) WHO Classification of Tumours of the Central Nervous System (IARC WHO Classification of Tumours) WHO Classification of Tumours of the Digestive System (IARC WHO Classification of Tumours) Virus Infections of Rodents and Lagomorphs: Virus Infections of Vertebrates Series, 1e (Machine Intelligence and Pattern Recognition) Pattern Recognition and Machine Learning (Information Science and Statistics) Improve Your Chess Pattern Recognition: Key Moves and Motifs in the Middlegame Practical Hepatic Pathology: A Diagnostic Approach: A Volume in the Pattern Recognition Series, Expert Consult: Online and Print, 1e Granular Neural Networks, Pattern Recognition and Bioinformatics (Studies in Computational Intelligence) Pattern Recognition Practical Hepatic Pathology: A Diagnostic Approach: A Volume in the Pattern Recognition Series, 2e Practical Hepatic Pathology: A Diagnostic Approach E-Book: A Volume in the Pattern Recognition Series