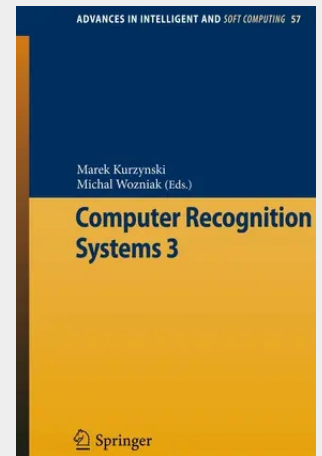


Computer Recognition Systems 3

We perform pattern recognition all the time in our daily lives, without always being aware of it. We firstly observe the world around us by using all our senses (we extract features from a large set of data). We subsequently perform pattern recognition by grouping together similar features and giving them a common label. We can identify similar, non-identical events or objects in an efficient way. We can, for example, recognise whether complete strangers are smiling at us or not. This is a computationally demanding task, yet is seemingly trivial for humans. We can easily understand the meaning of printed texts even if the letters belong to a font that is new to us, so long as the new font is "similar" to ones we already know. Yet making machines responsive to "similarity notions" can be singularly problematic. Recognition is strongly linked with prediction: distinguishing between a smile and an angry face may be critical to our immediate future action. The same principle applies to driving in heavy traffic or dealing with many social situations. The successful automation of recognition tasks is not only a major challenge, it is inextricably linked to the future of our modern world. Recognizing traffic flow and traffic behaviour (be it road traffic, air traffic or internet traffic) can lead to greater efficiency and safety in navigation generally. Recognising biosignals (such as ECG or EMG) and diseases as early as possible is critical for effective medical treatment. Modern warfare is not covered here, but its development in the 21st century will also depend critically on newer, faster, more robust recognition systems.

Presents latest results in Computer recognition Systems, Pattern Recognition, Machine Learning, Web and Data mining



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