

# Preface

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## ► About This Book

In recent years artificial neural networks (ANN) have emerged as a mature and viable framework with many applications in various areas. ANN are mostly applicable wherever some hard to define (exactly) patterns have to be dealt with. "Patterns" are taken here in the broadest sense, applications and models have been developed from speech recognition to (stock)market time series prediction with almost anything in between and new ones appear at a very fast pace.

However, to be able to (correctly) apply this technology it is not enough just to throw some data at it randomly and wait to see what happens next. At least some understanding of the underlying mechanism is required in order to make efficient use of it.

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This book make an attempt to cover some of the basic ANN development: some theories, principles and ANN architectures which have found a way into the mainstream.

*First part* covers some of the most widely used ANN architectures. New ones or variants appear at a fast rate so it is not possible to cover them all, but these are among the few ones with wide applications. This part would be of use as an introduction and for those who have to implement them but do not have to worry about their applications (e.g. programmers required to implement a particular ANN engine for some applications — but note that some important algorithmic improvements are explained in the second part).

*Second part* takes a deeper insight at the fundamentals as well as establishing the most important theoretical results. It also describes some algorithmic optimizations/variants for

# Fukunaga Solution Manual

**N Colangelo**



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