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who has also lent
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but without losing
sight of the unifying
principles.

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learning models,
and finally
generating new
content from these
models.

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The machine

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lets users make

various adjustments

to the pitch, vowel

sounds and more by

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individual blobs in

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different directions.

The playful experiment makes it possible to record songs, mute certain blobs and even add festive holiday hats to the singers.

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greatest application challenges, providing future benefits in

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However, successful ML for HI needs a concerted effort, fostering

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between experts
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from experience,
there is no need for
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operator to formally
specify all the
knowledge that the
computer needs.

The hierarchy of
concepts allows the
computer to learn
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building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant

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concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks,

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be used by

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planning careers in

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research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

Reinforcement learning

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encompasses both a science of adaptive behavior of rational beings in uncertain environments and a computational methodology for finding optimal behaviors for challenging problems in control, optimization and adaptive behavior of intelligent agents.

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As a field, reinforcement learning has progressed tremendously in the past decade. The main goal of this book is to present an up-to-date series of survey articles on the main contemporary sub-fields of reinforcement

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learning. This includes surveys on partially observable environments, hierarchical task decompositions, relational knowledge representation and predictive state representations. Furthermore, topics such as transfer, evolutionary

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methods and
continuous spaces
in reinforcement
learning are
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addition, several
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learning methods in
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different subfields are presented by mostly young experts in those areas, and together they truly represent a state-of-the-art of current reinforcement learning research. Marco Wiering works at the artificial intelligence department of the

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University of Groningen in the Netherlands. He has published extensively on

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Martijn van Otterlo works in the cognitive artificial intelligence group at the Radboud University

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