

Advances in Computer Vision and Pattern Recognition

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Rogério Schmidt Feris · Christoph Lampert
Devi Parikh
Editors

Visual Attributes

 Springer

Editors

Rogério Schmidt Feris
IBM T.J. Watson Research Center
Yorktown Heights, NY
USA

Devi Parikh
Georgia Tech
Atlanta, GA
USA

Christoph Lampert
Computer Vision and Machine Learning
IST Austria
Klosterneuburg
Austria

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Preface

Visual attributes are generally defined as mid-level semantic visual concepts or properties that are shared across categories, e.g., furry, striped, metallic, young. They have recently gained significant popularity in computer vision, finding applications in zero-shot classification (where a machine can recognize a concept even without having seen it before), image ranking and retrieval, fine-grained categorization, human–machine interaction, and many others.

This book provides an overview of and summarizes recent advances in machine learning and computer vision related to visual attributes, while exploring the intersection with other disciplines such as computational linguistics and human–machine interaction. It contains a collection of chapters written by world-renowned scientists, covering theoretical aspects of visual attribute learning as well as practical computer vision applications.

We would like to express our sincere gratitude to all chapter contributors for their dedication and high-quality work, as well as to Simon Rees and Wayne Wheeler from Springer for their support and help throughout the book’s preparation.

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Atlanta, GA, USA
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Rogério Schmidt Feris
Christoph Lampert
Devi Parikh

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