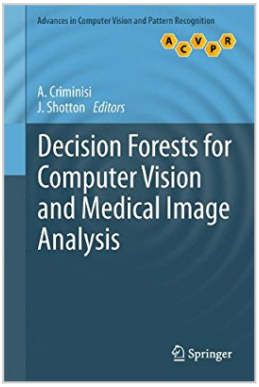

Decision Forests for Computer Vision and Medical Image Analysis (Advances in Computer Vision and Pattern Recognition)

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Decision Forests for Computer Vision and Medical Image Analysis (Advances in Computer Vision and Pattern Recognition) From Springer

This practical and easy-to-follow text explores the theoretical underpinnings of decision forests, organizing the vast existing literature on the field within a new, general-purpose forest model. Topics and features: with a foreword by Prof. Y. Amit and Prof. D. Geman, recounting their participation in the development of decision forests; introduces a flexible decision forest model, capable of addressing a large and diverse set of image and video analysis tasks; investigates both the theoretical foundations and the practical implementation of decision forests; discusses the use of decision forests for such tasks as classification, regression, density estimation, manifold learning, active learning and semi-supervised classification; includes exercises and experiments throughout the text, with solutions, slides, demo videos and other supplementary material provided at an associated website; provides a free, user-friendly software library, enabling the reader to experiment with forests in a hands-on manner.

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Editorial Review

Review

From the reviews:

“This book is a comprehensive presentation of the theory and use of decision forests in a wide range of applications, centered on computer vision and medical imaging. The book is strikingly well integrated. … This is an excellent volume on the concept, theory, and application of decision forests. … I highly recommend it to those currently working in the field, as well as researchers desiring an introduction to the application of random forests for imaging applications.” (Creed Jones, Computing Reviews, March, 2014)

From the Back Cover

Decision forests (also known as random forests) are an indispensable tool for automatic image analysis.

This practical and easy-to-follow text explores the theoretical underpinnings of decision forests, organizing the vast existing literature on the field within a new, general-purpose forest model. A number of exercises encourage the reader to practice their skills with the aid of the provided free software library. An international selection of leading researchers from both academia and industry then contribute their own perspectives on the use of decision forests in real-world applications such as pedestrian tracking, human body pose estimation, pixel-wise semantic segmentation of images and videos, automatic parsing of medical 3D scans, and detection of tumors. The book concludes with a detailed discussion on the efficient implementation of decision forests.

Topics and features:

- With a foreword by Prof. Yali Amit and Prof. Donald Geman, recounting their participation in the development of decision forests
- Introduces a flexible decision forest model, capable of addressing a large and diverse set of image and video analysis tasks
- Investigates both the theoretical foundations and the practical implementation of decision forests
- Discusses the use of decision forests for such tasks as classification, regression, density estimation, manifold learning, active learning and semi-supervised classification
- Includes exercises and experiments throughout the text, with solutions, slides, demo videos and other supplementary material provided at an associated website
- Provides a free, user-friendly software library, enabling the reader to experiment with forests in a hands-on manner

With its clear, tutorial structure and supporting exercises, this text will be of great value to students wishing to learn the basics of decision forests, researchers wanting to become more familiar with forest-based learning, and practitioners interested in exploring modern and efficient image analysis techniques.

Dr. A. Criminisi and **Dr. J. Shotton** are Senior Researchers in the Computer Vision Group at Microsoft Research Cambridge, UK.

Users Review

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