**Springer**1st  
edition

2013, XXVIII, 345 p.

**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-642-36805-9

\$ 179,99

Available

**Discount group**

Professional Books (2)

**Product category**

Monograph

**Series**

Signals and Communication Technology

**Other renditions**

Softcover

ISBN 978-3-642-44277-3

**Engineering : Signal, Image and Speech Processing**

Schuller, Björn W.

# Intelligent Audio Analysis

- Provides benchmark results and standardised test-beds for a broader range of audio analysis tasks
- Extends the range of Intelligent Audio Analysis application by showing its potential in new tasks
- Stimulates synergies arising from transfer of methods and lead to a holistic audio analysis
- Shows deficiencies in current approaches and sketches future perspectives

This book provides the reader with the knowledge necessary for comprehension of the field of Intelligent Audio Analysis. It firstly introduces standard methods and discusses the typical Intelligent Audio Analysis chain going from audio data to audio features to audio recognition. Further, an introduction to audio source separation, and enhancement and robustness are given. After the introductory parts, the book shows several applications for the three types of audio: speech, music, and general sound. Each task is shortly introduced, followed by a description of the specific data and methods applied, experiments and results, and a conclusion for this specific task. The book provides benchmark results and standardized test-beds for a broader range of audio analysis tasks. The main focus thereby lies on the parallel advancement of realism in audio analysis, as too often today's results are overly optimistic owing to idealized testing conditions, and it serves to stimulate synergies arising from transfer of methods and leads to a holistic audio analysis.

**Order online at [springer.com/booksellers](http://springer.com/booksellers)****Springer Nature Customer Service Center LLC**

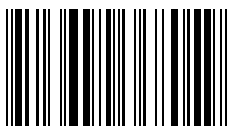
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

[customerservice@springernature.com](mailto:customerservice@springernature.com)

ISBN 978-3-642-36805-9 / BIC: TTBM / SPRINGER NATURE: SCT24051

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.