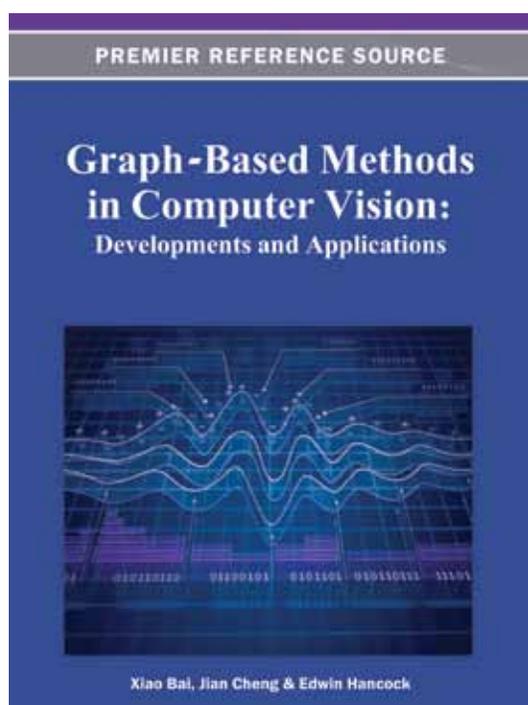


An Excellent Addition to Your Library!

Released: July 2012

Graph-Based Methods in Computer Vision: Developments and Applications



Xiao Bai (Beihang University, China),
Jian Cheng (Chinese Academy of Sciences, China),
& Edwin Hancock (University of York, UK)

Computer vision, the science and technology of machines that see, has been a rapidly developing research area since the mid-1970s. It focuses on the understanding of digital input images in many forms, including video and 3-D range data.

Graph-Based Methods in Computer Vision: Developments and Applications presents a sampling of the research issues related to applying graph-based methods in computer vision. These methods have been under-utilized in the past, but use must now be increased because of their ability to naturally and effectively represent image models and data. This publication explores current activity and future applications of this fascinating and ground-breaking topic.

Topics Covered:

- Algorithms
- Computer vision
- Data mining
- Graph-based methods
- Image and video analysis
- Image classification and retrieval
- Image matching
- Image processing
- Image segmentation
- Motion segmentation

ISBN: 9781466618916; © 2013; 395 pp.

Print: US \$195.00 | Perpetual: US \$295.00 | Print + Perpetual: US \$390.00

Pre-pub Discount:*

Print: US \$185.00 | Perpetual: US \$280.00

* Pre-pub price is good through one month after publication date.

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Dr. Bai Xiao received the B.Eng. degree in Computer Science from Beihang University (BUAA) of China in 2001. From 2002 to 2006, he was a Ph.D. student at Computer Science Department, University of York, U.K. under the supervision of Professor Edwin R. Hancock. From September 2006 to December 2008, he was a Research Officer (Fellow, Scientist) at Computer Science Department, University of Bath. He is now an Associate Professor at Computer Science School, Beihang University (BUAA). He has published more than 30 papers in journals and refereed conferences. His current research interests include computer vision, image processing and pattern recognition.



www.igi-global.com

Publishing Academic Excellence
at the Pace of Technology Since 1988