



Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing)

From Morgan Kaufmann

Download now

Read Online →

Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann

Emerging Trends in Image Processing, Computer Vision, and Pattern Recognition discusses the latest in trends in imaging science which at its core consists of three intertwined computer science fields, namely: Image Processing, Computer Vision, and Pattern Recognition. There is significant renewed interest in each of these three fields fueled by Big Data and Data Analytic initiatives including but not limited to; applications as diverse as computational biology, biometrics, biomedical imaging, robotics, security, and knowledge engineering. These three core topics discussed here provide a solid introduction to image processing along with low-level processing techniques, computer vision fundamentals along with examples of applied applications and pattern recognition algorithms and methodologies that will be of value to the image processing and computer vision research communities.

Drawing upon the knowledge of recognized experts with years of practical experience and discussing new and novel applications Editors' Leonidas Deligiannidis and Hamid Arabnia cover;

- Many perspectives of image processing spanning from fundamental mathematical theory and sampling, to image representation and reconstruction, filtering in spatial and frequency domain, geometrical transformations, and image restoration and segmentation
- Key application techniques in computer vision some of which are camera networks and vision, image feature extraction, face and gesture recognition and biometric authentication
- Pattern recognition algorithms including but not limited to; Supervised and unsupervised classification algorithms, Ensemble learning algorithms, and parsing algorithms.
- How to use image processing and visualization to analyze big data.

- Discusses novel applications that can benefit from image processing, computer vision and pattern recognition such as computational biology, biometrics, biomedical imaging, robotics, security, and knowledge engineering.
- Covers key application techniques in computer vision from fundamentals to mid to high level processing some of which are camera networks and vision, image feature extraction, face and gesture recognition and biometric authentication.
- Presents a number of pattern recognition algorithms and methodologies including but not limited to; supervised and unsupervised classification algorithms, Ensemble learning algorithms, and parsing algorithms.
- Explains how to use image processing and visualization to analyze big data.

 [Download Emerging Trends in Image Processing, Computer Visi ...pdf](#)

 [Read Online Emerging Trends in Image Processing, Computer Vi ...pdf](#)

Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing)

From Morgan Kaufmann

Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann

Emerging Trends in Image Processing, Computer Vision, and Pattern Recognition discusses the latest in trends in imaging science which at its core consists of three intertwined computer science fields, namely: Image Processing, Computer Vision, and Pattern Recognition. There is significant renewed interest in each of these three fields fueled by Big Data and Data Analytic initiatives including but not limited to; applications as diverse as computational biology, biometrics, biomedical imaging, robotics, security, and knowledge engineering. These three core topics discussed here provide a solid introduction to image processing along with low-level processing techniques, computer vision fundamentals along with examples of applied applications and pattern recognition algorithms and methodologies that will be of value to the image processing and computer vision research communities.

Drawing upon the knowledge of recognized experts with years of practical experience and discussing new and novel applications Editors' Leonidas Deligiannidis and Hamid Arabnia cover;

- Many perspectives of image processing spanning from fundamental mathematical theory and sampling, to image representation and reconstruction, filtering in spatial and frequency domain, geometrical transformations, and image restoration and segmentation
- Key application techniques in computer vision some of which are camera networks and vision, image feature extraction, face and gesture recognition and biometric authentication
- Pattern recognition algorithms including but not limited to; Supervised and unsupervised classification algorithms, Ensemble learning algorithms, and parsing algorithms.
- How to use image processing and visualization to analyze big data.
- Discusses novel applications that can benefit from image processing, computer vision and pattern recognition such as computational biology, biometrics, biomedical imaging, robotics, security, and knowledge engineering.
- Covers key application techniques in computer vision from fundamentals to mid to high level processing some of which are camera networks and vision, image feature extraction, face and gesture recognition and biometric authentication.
- Presents a number of pattern recognition algorithms and methodologies including but not limited to; supervised and unsupervised classification algorithms, Ensemble learning algorithms, and parsing algorithms.
- Explains how to use image processing and visualization to analyze big data.

Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends

in Computer Science and Applied Computing) From Morgan Kaufmann Bibliography

- Sales Rank: #5162025 in Books
- Published on: 2014-12-24
- Released on: 2014-12-10
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.46" w x 7.50" l, 2.80 pounds
- Binding: Paperback
- 640 pages

 [Download Emerging Trends in Image Processing, Computer Visi ...pdf](#)

 [Read Online Emerging Trends in Image Processing, Computer Vi ...pdf](#)

Download and Read Free Online Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann

Editorial Review

About the Author

Leonidas Deligiannidis is a Professor of Computer Science and Networking at Wentworth Institute of Technology in Boston. His research examines Image Processing, Network Security and Information Visualization. Deligiannidis earned his PhD in Computer Science at Tufts University.

Hamid R. Arabnia is currently a Full Professor of Computer Science at University of Georgia where he has been since October 1987. His research interests include Parallel and distributed processing techniques and algorithms, interconnection networks, and applications in Computational Science and Computational Intelligence (in particular, in image processing, medical imaging, bioinformatics, and other computational intensive problems). Dr. Arabnia is Editor-in-Chief of The Journal of is Associate Editor of IEEE Transactions on Information Technology in Biomedicine . He has over 300 publications (journals, proceedings, editorship) in his area of research in addition he has edited two titles Emerging Trends in ICT Security (Elsevier 2013), and Advances in Computational Biology (Springer 2012).

Users Review

From reader reviews:

Shanika Jeans:

The reserve untitled Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) is the book that recommended to you you just read. You can see the quality of the book content that will be shown to you actually. The language that article author use to explained their ideas are easily to understand. The copy writer was did a lot of study when write the book, hence the information that they share to your account is absolutely accurate. You also might get the e-book of Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) from the publisher to make you more enjoy free time.

Ken Martin:

You can obtain this Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) by check out the bookstore or Mall. Only viewing or reviewing it can to be your solve challenge if you get difficulties to your knowledge. Kinds of this guide are various. Not only by written or printed but additionally can you enjoy this book through e-book. In the modern era including now, you just looking because of your mobile phone and searching what their problem. Right now, choose your personal ways to get more information about your reserve. It is most important to arrange you to ultimately make your knowledge are still revise. Let's try to choose suitable ways for you.

Daniel Bryant:

Do you like reading a book? Confuse to looking for your favorite book? Or your book ended up being rare? Why so many problem for the book? But any kind of people feel that they enjoy for reading. Some people likes studying, not only science book and also novel and Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) or even others sources were given information for you. After you know how the fantastic a book, you feel wish to read more and more. Science publication was created for teacher or even students especially. Those textbooks are helping them to bring their knowledge. In additional case, beside science e-book, any other book likes Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) to make your spare time much more colorful. Many types of book like this.

Jasper Parsons:

What is your hobby? Have you heard which question when you got college students? We believe that that question was given by teacher for their students. Many kinds of hobby, Every individual has different hobby. And you know that little person similar to reading or as reading through become their hobby. You need to know that reading is very important and book as to be the factor. Book is important thing to incorporate you knowledge, except your current teacher or lecturer. You get good news or update in relation to something by book. Many kinds of books that can you decide to try be your object. One of them is Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing).

Download and Read Online Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann #ZJH0OUQPXY

Read Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann for online ebook

Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann books to read online.

Online Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann ebook PDF download

Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann Doc

Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann Mobipocket

Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann EPub

ZJH0OUQPXY: Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (Emerging Trends in Computer Science and Applied Computing) From Morgan Kaufmann