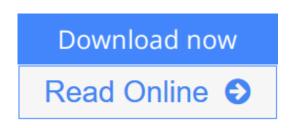# 2-D and 3-D Image Registration: for Medical, Remote Sensing, and Industrial Applications

By A. Ardeshir Goshtasby

2-D and 3-D Image Registration: for Medical, Remote Sensing, and Industrial Applications By A. Ardeshir Goshtasby

To master the fundamentals of image registration, there is no more comprehensive source than 2-D and 3-D Image Registration. In addition to delving into the relevant theories of image registration, the author presents their underlying algorithms. You'll also discover cutting-edge techniques to use in remote sensing, industrial, and medical applications. Examples of image registration are presented throughout, and the companion Web site contains all the images used in the book and provides links to software and algorithms discussed in the text, allowing you to reproduce the results in the text and develop images for your own research needs. 2-D and 3-D Image Registration serves as an excellent textbook for classes in image registration as well as an invaluable working resource.

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Editorial Review

Review
"...is a valuable contribution, useful also to researchers in computational geometric modeling, and reverse engineering." (*Computing Reviews.com*, September 22, 2005)

From the Back Cover
A comprehensive resource On The fundamentals and state of the art in image registration

This comprehensive book provides the relevant theories and underlying algorithms needed to master the basics of image registration and to discover the cutting-edge techniques used in medical applications, remote sensing, and industrial applications.

2-D and 3-D Image Registration begins with definitions of main terms and then provides a detailed exam-ple of image registration, describing each critical step. Next, preprocessing techniques for image registration are discussed.

The core of the text presents coverage of all the key concepts needed to understand, implement,and evaluate various image registration methods.

These key methods include:

- Feature selection
- Feature correspondence
- Transformation functions
- Evaluation methods
- Image fusion
- Image mosaicking

The final chapter discusses stereo depth perception as an application of image registration, and camera calibration and correspondence algorithms are presented in detail.

Examples of image registration are presented throughout the book and as an added feature, a companion Web site contains all the images used in the book. The Web site also provides links to software and algorithms discussed in the text, enabling readers to reproduce the results in the text and develop images for their own research needs. A comprehensive list of references on image registration and their applications in medicine, remote sensing, and industry is provided, allowing readers to extend their research.

This book will serve as an excellent text for classes in image registration, as well as a supplementary textbook in image processing, computer vision, computer graphics, and medical imaging.

About the Author
A. ARDESHIR GOSHTASBY, PHD, is a professor in the department of computer science and engineering at Wright State University. Dr. Goshtasby has been developing solutions to image registration problems since 1983 and has numerous publications to his credit.

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