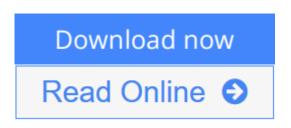# Matchmoving: The Invisible Art of Camera Tracking

By Tim Dobbert

Matchmoving: The Invisible Art of Camera Tracking By Tim Dobbert

Get your foot in the studio door by learning the art of matchmoving

Matchmoving is a technique that allows computer graphics to be inserted into live-action footage with correct position, scale, orientation, and motion. Also known as motion tracking, it's what allows movie monsters to run down Main Street and robots to run through crowds--and look real. Now this unique book from a top expert from Industrial Light and Magic teaches you the art of matchmoving.

With step-by-step tutorials and pages of examples, this book first explains the basics and then shows you professional techniques, from 3D calibration and tracking, to stereoscopy, and more.

- Explains concepts and teaches professional techniques for successful matchmoving
- Authored by a top matchmove specialist from Industrial Light and Magic, who walks you through step-by-step tutorials and impressive examples
- Covers matchmoving basics, 2D tracking, 3D calibration and tracking, automatic tracking, cameras, integrating matchmoves, and stereoscopy

Learn how studio visual effects professionals make all the right matchmoves with *Matchmoving: The Invisible Art of Camera Tracking 2nd Edition.*

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Editorial Review

From the Back Cover

Learn the keys to matching CG to live action

Matchmoving is a practical skill that can help digital artists get a foot in the studio door. Now you can learn the professional techniques required with this essential guide. Author Tim Dobbert, a veteran in the visual effects industry, has worked on such movies as *Avatar* and *Harry Potter and the Goblet of Fire*, and he passes along years of valuable studio expertise in this fully updated industry standard. You'll quickly start acquiring such technical skills as 2D tracking, 3D calibration, object tracking, what to do on a live-action set, and much more.

- Learn the fundamentals—matchmoving concepts and software
- Discover 2D tracking and how to make every track count
- Work step by step through each stage of 3D calibration
- Understand how real cameras work
- Explore the matchmover's role on a live-action set
- Do the matchamation—match your CG character or object to a live-action plate
- Track the motion of an object seen in the footage
- Apply matchmove data for painting, compositing, and lighting
- Examine how 3D movies affect matchmoving
- Learn how 3D/stereo movies are made and how it affects matchmovers

About the Author

Tim Dobbert is a layout lead at Industrial Light & Magic in San Francisco and has been in the visual effects industry for over ten years. He has worked as a matchmover and digital artist on over 25 feature films, including *Avatar, Pirates of the Caribbean: On Stranger Tides*, and *Harry Potter and the Goblet of Fire*. In addition to teaching university classes in matchmoving and image-based content creation, he has lectured all over the world on the subject.

Users Review

From reader reviews:

Edward Capps:

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Clarence Danner:

The reason why? Because this Matchmoving: The Invisible Art of Camera Tracking is an unordinary book that the inside of the book waiting for you to snap that but latter it will jolt you with the secret this inside. Reading this book close to it was fantastic author who also write the book in such wonderful way makes the content inside of easier to understand, entertaining technique but still convey the meaning totally. So , it is good for you because of not hesitating having this anymore or you going to regret it. This amazing book will give you a lot of rewards than the other book include such as help improving your skill and your critical thinking way. So , still want to hold up having that book? If I have been you I will go to the publication store hurriedly.

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