3D Face Modeling, Analysis and Recognition

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3D Face Modeling, Analysis and Recognition presents methodologies for analyzing shapes of facial surfaces, develops computational tools for analyzing 3D face data, and illustrates them using state-of-the-art applications. The methodologies chosen are based on efficient representations, metrics, comparisons, and classifications of features that are especially relevant in the context of 3D measurements of human faces. These frameworks have a long-term utility in face analysis, taking into account the anticipated improvements in data collection, data storage, processing speeds, and application scenarios expected as the discipline develops further.

The book covers face acquisition through 3D scanners and 3D face pre-processing, before examining the three main approaches for 3D facial surface analysis and recognition: facial curves; facial surface features; and 3D morphable models. Whilst the focus of these chapters is fundamentals and methodologies, the algorithms provided are tested on facial biometric data, thereby continually showing how the methods can be applied.

Key features:
• Explores the underlying mathematics and will apply these mathematical techniques to 3D face analysis and recognition
• Provides coverage of a wide range of applications including biometrics, forensic applications, facial expression analysis, and model fitting to 2D images
• Contains numerous exercises and algorithms throughout the book

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From reader reviews:

Travis Wysocki:

Typically the book 3D Face Modeling, Analysis and Recognition has a lot info on it. So when you read this book you can get a lot of advantage. The book was published by the very famous author. The writer makes some research previous to write this book. That book very easy to read you can find the point easily after reading this book.

Chris Henderson:

People live in this new day time of lifestyle always aim to and must have the free time or they will get great deal of stress from both way of life and work. So , whenever we ask do people have extra time, we will say absolutely yes. People is human not really a robot. Then we question again, what kind of activity do you have when the spare time coming to you of course your answer can unlimited right. Then do you ever try this one, reading publications. It can be your alternative inside spending your spare time, the actual book you have read is 3D Face Modeling, Analysis and Recognition.

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Playing with family within a park, coming to see the marine world or hanging out with pals is thing that usually you might have done when you have spare time, subsequently why you don't try issue that really opposite from that. Just one activity that make you not feeling tired but still relaxing, trilling like on roller coaster you have been ride on and with addition of information. Even you love 3D Face Modeling, Analysis and Recognition, it is possible to enjoy both. It is great combination right, you still wish to miss it? What kind of hangout type is it? Oh seriously its mind hangout fellas. What? Still don't understand it, oh come on its identified as reading friends.

Molly Maldonado:

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