



# Depth Map and 3D Imaging Applications: Algorithms and Technologies

By Aamir Saeed Malik

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Over the last decade, significant progress has been made in 3D imaging research. As a result, 3D imaging methods and techniques are being employed for various applications, including 3D television, intelligent robotics, medical imaging, and stereovision.

**Depth Map and 3D Imaging Applications: Algorithms and Technologies** present various 3D algorithms developed in the recent years and to investigate the application of 3D methods in various domains. Containing five sections, this book offers perspectives on 3D imaging algorithms, 3D shape recovery, stereoscopic vision and autostereoscopic vision, 3D vision for robotic applications, and 3D imaging applications. This book is an important resource for professionals, scientists, researchers, academics, and software engineers in image/video processing and computer vision.

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## **Editorial Review**

### **Review**

Modern technology has at last matured enough to allow us to record the 3D world as such, with an enormous range of applications: from medicine and cave technology for oil exploration, to entertainment and the 3D television. This book is dedicated exactly to these modern technologies, which fascinate and excite. Enjoy it!

*--Maria Petrou, Informatics and Telematics Institute, CERTH, Greece, and Imperial College London*

### **About the Author**

**Aamir Saeed Malik** has a BS in Electrical Engineering from University of Engineering & Technology, Lahore, Pakistan, MS in Nuclear Engineering from Quaid-i-Azam University, Islamabad, Pakistan, another MS in Information & Communication and PhD in Information & Mechatronics from Gwangju Institute of Science & Technology, Gwangju, Republic of Korea. He has more than 10 years of research experience and has worked for GoP, IBM and Hamdard University in Pakistan and Yeungnam and Hanyang Universities in South Korea. He is currently working at Universiti Teknologi PETRONAS in Malaysia. He is Senior Member of IEEE. His research interests include image processing, 3D shape recovery, medical imaging, EEG signal processing and content based image retrieval (CBIR).

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