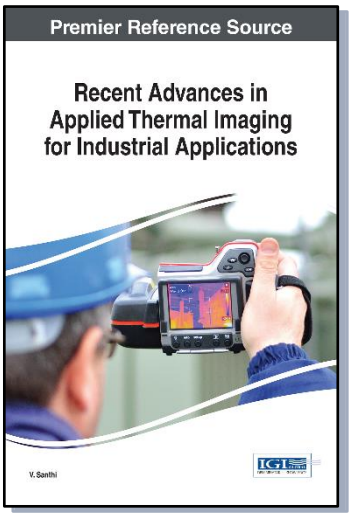
Recent Advances in Applied Thermal Imaging for Industrial Applications

Part of the Advances in Civil and Industrial Engineering Book Series

V. Santhi (VIT University, India)



Description:

Although the technological boom has resulted in many advancements in modern society, it has also come with a few downfalls; most notably, the failure of new machines and equipment. This has prompted engineers to find suitable diagnostics tools to stop impending malfunctions and make working environments more efficient.

Recent Advances in Applied Thermal Imaging for Industrial Applications is a critical reference source that outlines innovative analysis tools to combat systems failure in thermal imaging. Highlighting pertinent topics such as fuzzy c- means technique, human health diagnosis system, multidimensional processing, and optical analysis, this is an ideal resource for all engineers, practitioners, industry leaders, and researchers who are interested in staying up-to-date with advances in thermal imaging which prevents industrial system malfunctions.

ISBN: 9781522524236 **Release Date:** June, 2017 **Copyright:** 2017 **Pages:** 279

Topics Covered:

- Computational Intelligence
- Fuzzy C- Means Technique
- Human Health Diagnosis System
- Medical Science
- Multidimensional Processing
- Optical Analysis
- Personal Authentication
- Photogrammetry Process
- Smart Applications
- Texture Feature Measurements

Hardcover: $205.00

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V. Santhi has received her Ph.D. in Computer Science and Engineering from VIT University, Vellore, India. She has pursued her M.Tech. in Computer Science and Engineering from Pondicherry University, Puducherry. She has received her B.E. in Computer Science and Engineering from Bharathidasan University, Trichy, India. Currently she is working as Associate Professor in the School of Computing Science and Engineering, VIT University, Vellore, India. She has authored many national and international journal papers and one book. She is currently in the process of editing two books. Also, she has published many chapters in different books published by International publishers. She is senior member of IEEE and she is holding membership in many professional bodies like CSI, ISTE, IACSIT, IEEE and IAENG. Her areas of research include Image Processing, Digital Signal Processing, Digital Watermarking, Data Compression and Computational Intelligence.