

# Innovative Research in Thermal Imaging for Biology and Medicine

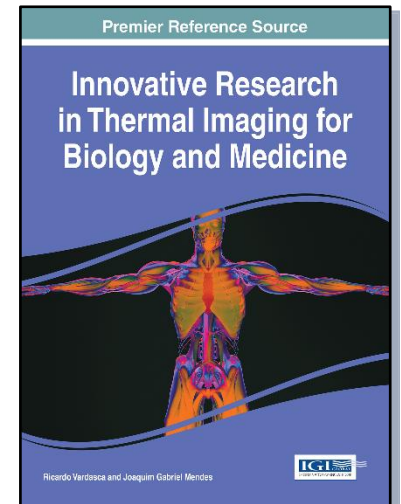
Part of the Advances in Medical Technologies and Clinical Practice Book Series

Ricardo Vardasca (University of Porto, Portugal) and Joaquim Gabriel Mendes (University of Porto, Portugal)

## Description:

Technological advances in thermal imaging have had far-reaching impacts on the fields of biology and medicine. By studying the diverse applications in thermal imaging, significant contributions can be made in modern life sciences.

**Innovative Research in Thermal Imaging for Biology and Medicine** is a thorough reference source that offers in-depth discussions on emerging advancements in thermal imaging techniques and provides interdisciplinary perspectives on its diverse applications. Highlights relevant topics such as microvascular imaging, vascular optics, body cryotherapy, and myofascial trigger points.



## Readers:

This publication is ideal for all academicians, graduate students, practitioners, and researchers who are interested in studying the latest advances in thermal imaging as it relates to medicine and biology.

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## Topics Covered:

- Body Cryotherapy
- Infrared Thermography
- Microvascular Imaging
- Myofascial Trigger Points
- Thermographic Evaluation
- Thermography Diagnostics
- Vaccines
- Vascular Optics

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**Ricardo Vardasca** received the B.Sc. degree in Information Technology from the University of Glamorgan, Wales, United Kingdom, and the B.Sc. and 'Licenciante' degrees in computer engineering from the Polytechnic Institute of Leiria, Leiria, Portugal, in 2006, and the Ph.D. degree in Medical Informatics from the University of Glamorgan, Wales, United Kingdom, in 2010. Both British academic degrees are registered and recognised in Portugal by the University of Porto. From 2006 to 2009, he was a Lecturer with the Department of Computing and Mathematical Sciences, Faculty of Advanced Technology, University of Glamorgan. From 2009 to 2011, he was a Lecturer with the Department of Computer Engineering, Polytechnic Institute of Leiria, where he started as an Assistant Professor and later Invited Associated Professor. From September 2011 to August 2012 he has been involved in the research on ambient assisted living technologies at the School of Engineering at University of Minho. In June 2012 returned to the University of Glamorgan, actually University of South Wales, as Visiting Research Fellow at Medical Imaging Research Unit, Faculty of Computing, Engineering and Science. Since January 2013 he joined the Faculty of Engineering of University of Porto researching in clinical thermography and mobile biometrics. Co-chair of the EAT2012 conference at Porto, from 5th to 8th September 2012. Member of the Editorial Board of Thermology International, International Journal of E-Health and Medical Communications and COMPUSOFT - International Journal of Advanced Computer Technology. Reviewer of Infrared Physics and Technology Internet of Things, Journal, Neuroscience, QIRT journal and PLOS ONE. Board member of the European Association of Thermology, associate member of the British Computer Society (Health Informatics group), honorary vitalicious member of the Brazilian Association of Thermology, ordinary member of the Royal Photographic Society (Imaging Science group), Institute of Physics and Engineering in Medicine and Portuguese Association of Medical Informatics.

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