

# Methodology, Models and Algorithms in Thermographic Diagnostics (Topics in Intelligent Engineering and Informatics)

Jozef Zivcák, Radovan Hudák, Ladislav Madarász, Imre J. Rudas

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This book presents the methodology and techniques of thermographic applications with focus primarily on medical thermography implemented for parametrizing the diagnostics of the human body. The first part of the book describes the basics of infrared thermography, the possibilities of thermographic diagnostics and the physical nature of thermography. The second half includes tools of intelligent engineering applied for the solving of selected applications and projects. Thermographic diagnostics was applied to problematics of paraplegia and tetraplegia and carpal tunnel syndrome (CTS). The results of the research activities were created with the cooperation of the four projects within the Ministry of Education, Science, Research and Sport of the Slovak Republic entitled Digital control of complex systems with two degrees of freedom, Progressive methods of education in the area of control and modeling of complex object oriented systems on aircraft turbocompressor engines, Center for research of control of technical, environmental and human risks for permanent development of production and products in mechanical engineering and Research of new diagnostic methods in invasive implantology.



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