

Extract of the paper “Application of Thermography in Education: A Bibliometric and Meta-Analysis”

Estefanía García-Peralo ¹, Pablo Rodríguez-González ², Manuel Rodríguez-Martín ¹

¹ University of Salamanca, Spain

² Universidad de León, Spain.

Abstract

From engineering and physics to health sciences are only a few of the professional topics where infrared thermography is usually applied. Future professionals need to be thoroughly taught in its use and familiar with its fundamentals for this reason. However, because of the high cost and the difficulty in evaluating the outcomes of using this technology in teaching and learning, it may be difficult to acquire the necessary skills and to design educational research that can be used to evaluate the learning potential of the tool. Furthermore, thermography is a physical instrument that can be used to enhance the competencies acquired at different educational levels. In this work, a bibliometric analysis is implemented from a Scopus ® dataset to analyse the trend and evolution of the work linking thermography and education, also the main sources of the works. Additionally, a meta-analysis will be implemented to draw a network map for co-occurrences in order to identify the different subtopics from the relationship between the scientific works published. Since infrared thermography oriented to education is a lowly explored topic, this work may be a starting point for new developments and research lines.

Citation

E. García-Peralo, P. Rodríguez-González, M. Rodríguez-Martin. 2023. Application of thermography in education: A bibliometric and meta-analysis. In *16th International Conference of Education, Research and Innovation (ICERI)*. IATED Academy, Valencia, Spain, 2611-2618. DOI: <https://doi.org/10.21125/iceri.2023.0697>

Keywords

Thermography; Education; Learning; Infrared image; Engineering education

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