



Abstract

Author keywords

Indexed keywords

[Back to results](#) | 1 of 1[Download](#) [Print](#) [Save to PDF](#) [Add to List](#) [Create bibliography](#)

2020 9th International Congress of Mechatronics Engineering and Automation, CIIMA 2020
November 2020 • Article number 9290307 • 9th International Congress of Mechatronics Engineering and Automation, CIIMA 2020
• Cartagena de Indias • 4 November 2020 through 6 November 2020 • Code 166087

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-172819496-7

DOI

10.1109/CIIMA50553.2020.9290307




[View more](#) 

Development and implementation of an optical profilometer by laser triangulation

[Desarrollo e implementación de un perfilómetro óptico por triangulación láser]

Quintero, Fernando J.^a  ; Mendoza, Kevin^a  ; Romero, Lenny A.^b ; Marrugo, Andres G.^a[Save all to author list](#)^a Universidad Tecnológica de Bolívar, Facultad de Ingeniería, Cartagena, Colombia^b Universidad Tecnológica de Bolívar, Facultad de Ciencias Básicas, Cartagena, Colombia

24

Views count  [View all metrics](#) **Abstract**

Profilometers are instruments commonly used in surface metrology tasks. These instruments play a key role in the industry, such as in manufacturing and quality assurance. However, conventional profilometry techniques require direct contact with the object. In this work, we developed a practical and low-cost optical profilometer for contactless profilometry. The proposed profilometer is based on a

**This export type is temporarily disabled.**

Try using another option from the Export menu. If the export alternatives are suitable, contact the Scopus support Center.

[Set citation alert >](#)**Related documents**

High-dynamic-range 3D measurement for E-beam fusion additive manufacturing based on SVM intelligent fringe projection system

Liu, Y. , Blunt, L. , Gao, F. (2021) *Surface Topography: Metrology and Properties*

CPU and GPU real-time filtering methods for dense surface metrology using general matrix to matrix multiplications

Usamentiaga, R. (2022) *Journal of Real-Time Image Processing*

Dimensional Accuracy of Electron Beam Powder Bed Fusion with Ti-6Al-4V

Bol, E. , Ramulu, M. (2023) *Designs*

[View all related documents based on references](#)

[Find more related documents in Scopus based on:](#)

[Authors](#) > [Keywords](#) >