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Criterion III: - Research, Innovations and Extension

3.3 Research Publications and Awards 2021



| Sr. No. | Title of the paper | ISBN | Name of Author | Page No. |
|---------|---|-------------------|--------------------|----------|
| 1 | Video Interpretation for Cost-Effective Remote Proctoring to Prevent Cheating | 978-981-33-4073-2 | Dr. V. R. Ghorpade | 3 |
| 2 | Analysis of surface Roughness and cutting force under MQL turning using nano fluids | 2214-7853 | Dr. P B Patole | 5 |

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| 3 | Analysis of surface Roughness and cutting force under MQL turning using nano fluids | 2214-7853 | Mr.G.J.Pol | 7 |
| 4 | Analysis of surface Roughness and cutting force under MQL turning using nano fluids | 2214-7853 | Mr.A.A.Desai | 9 |
| 5 | Analysis of surface Roughness and cutting force under MQL turning using nano fluids | 2214-7853 | Mr.S.B.Kamble | 11 |

Lecture Notes in Networks and Systems 169

Varsha H. Patil · Nilanjan Dey ·
Parikshit N. Mahalle ·
Mohd Shafi Pathan ·
Vinod. V. Kimbahune *Editors*

Proceeding of First Doctoral Symposium on Natural Computing Research

DSNCR 2020

 Springer

Video Interpretation for Cost-Effective Remote Proctoring to Prevent Cheating

[Kiran P. Kamble](#)  & [Vijay R. Ghorpade](#)

Conference paper | [First Online: 19 March 2021](#)

199 Accesses | **1** Citations

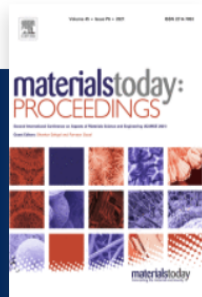
Part of the [Lecture Notes in Networks and Systems](#) book series (LNNS, volume 169)

Abstract

In the rising era of globalization and digitization, remote education continues in gaining popularity and reach. Efficiently proctoring online remote examination is an important limiting factor to sustain the integrity of the exam as well as provide unprejudiced results. Currently human proctoring is the customer perspective to maintain integrity, either manually with the help of a test taker or by overseeing them visually through webcams. Online exams provide the examiner the choice, to choose the environment and the tools they wish to use during the exam. In response to this, our research proposes an application to detect fraudulent activities during online examination in real-time through the video recorded by the webcam of the examiner's system. The application provides four features that continuously estimate the integrity of the exam: (1) User verification for checking impersonation by the examiner. (2) Multiple people together solving the exam. (3) Absence of examiner. (4) Detecting the use of mobile phones. The extensive experiment depicts accuracy of our cost-effective remote



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Second International Conference on Aspects of Materials Science and Engineering (ICAMSE 2021)

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Edited by Shankar Sehgal, Parveen Goyal

Volume 45, Part 6,



Analysis of surface roughness and cutting force under MQL turning using nano fluids

P.B. Patole  , G.J. Pol, A.A. Desai, S.B. Kamble

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Abstract

An experimental investigation was carried out to analyze the effects of cutting conditions, and nano coolant on the cutting force and surface roughness in the minimum quantity lubrication turning of the alloy steel AISI 4340. In the present research work, a curve fitting technique is used for the prediction of cutting force and surface roughness in MQL turning process using nano fluids. The developed model may be used for predicting cutting force and surface roughness for given cutting variables. The model is helpful while understanding the behavior of the cutting process. The performance of the developed model is studied with the experimental data of MQL turning of alloy steel AISI 4340 material. The values



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