

## ANUDYUTI GHORAI

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| Department           | Computer science & BCA  |
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| Qualifications:      | M.Sc., M.Phil., NET.  |
| Teaching Experience  | From August 2018  |
| Research Experiences | Image processing, Image classification, Deep learning, Computer vision  |

### Publications

| Sl. No. | Research articles   | Authors  | Journal                           | Year | Index/ Impact factor |
|---------|---|--|-----------------------------------|------|----------------------|
| 1       | Indian sign language recognition system using network deconvolution and spatial transformer network<br>DOI: <a href="https://doi.org/10.1007/s00521-023-08860-y">10.1007/s00521-023-08860-y</a>       | <ul style="list-style-type: none"><li>• A. Ghora,</li><li>• U. Nandi,</li><li>• C. Changdar,</li><li>• T. Si,</li><li>• M. M. Singh,</li><li>• J.K. Mondal.</li></ul>  | Neural Computing and Applications | 2023 | IF.: 6.0             |
| 2       | Indian sign language alphabet recognition system using CNN with diffGrad optimizer and stochastic pooling<br>DOI: <a href="https://doi.org/10.1007/s11042-021-11595-4">10.1007/s11042-021-11595-4</a> | <ul style="list-style-type: none"><li>• U. Nandi,</li><li>• A. Ghora,</li><li>• M. M. Singh,</li><li>• C. Changdar,</li><li>• S. Bhakta,</li><li>• R. K. Pal</li></ul> | Multimedia Tools and Applications | 2022 | I.F.: 3.6            |

### Book Chapter

| Sl. No. | Research articles   | Authors  | Book                                    | Year | Index         |
|---------|---|--|---|------|---------------|
| 1       | A Fast Partitioning Strategy: Its Application to Fractal Image Coding<br>DOI: <a href="https://doi.org/10.1007/978-981-15-7511-2_21">10.1007/978-981-15-7511-2_21</a> | <ul style="list-style-type: none"><li>• U. Nandi,</li><li>• A. Ghora,</li><li>• B. Laya,</li><li>• M. M. Singh</li></ul> | Lecture Notes in Electrical Engineering | 2021 | Peer reviewed |

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|---|--|--|--|------|---------------|
| 2 | Three-level hierarchical classification scheme: Its application to fractal image compression technique<br>DOI: <a href="https://doi.org/10.1007/978-981-15-5679-1_12">10.1007/978-981-15-5679-1_12</a> | <ul style="list-style-type: none"> <li>• U. Nandi,</li> <li>• B. Laya,</li> <li>• A. Ghorai,</li> <li>• M. M. Singh</li> </ul> | <b>Advances in Intelligent Systems and Computing</b> | 2021 | Peer reviewed |
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### Paper presentation in seminars

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| 1. | <b>International Conference</b> on “International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEER -2020)” organized by KIIT School of Electrical Engineering on 05-06 March, 2020 |
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### *Seminar/Workshop attained:*

- (i) **A SERB Sponsored Workshop** on “3D Printing in Research and Education: Empowering the Future” organized by Agricultural and Food Engineering Department, **IIT Kharagpur** on 07-08 October, 2023
- (ii) **One Day International Webinar** on “Better Understanding of Pandemic Covid-19” organized by IQAC, **Kharagpur College** on 23<sup>rd</sup> June 2020.
- (iii) **Two Day International Webinar** on “Values and responsibilities during epidemics” organized by Morning Shift & NSS Units, **Kharagpur College** on 13-14 July 2020.
- (iv) **Two-day International Webinar** on “EMERGING TRENDS & ADVANCES IN MACHINE LEARNING” organized by **Debra Thana Sahid Kshudiram Smriti Mahavidyalaya** on 22-23 August 2020.
- (v) **One Day National Webinar** on “Covid-19 & National Lockdown: Some Socio-Economic Dimensions” organized by Department of Economics, **Kharagpur College** on 26<sup>th</sup> August 2020.
- (vi) **Two Day National Webinar** on “Fake News and Image Detection on social media” organized by Department of Computer Science, **Vidyasagar University** on 15-16 March 2021
- (vii) **Two Day National Webinar** on “Applications of Computational Statistics in modern era” organized by Department of Computer Center, **Vidyasagar University** on 03-04 September 2021

### *Committee:*

1. **Member of NAAC Infrastructure and Learning Resources subcommittee.**
2. **Member of Cultural subcommittee, Platinum Jubilee Celebration.**