

CURRICULUM VITAE



Dr. Anu Singha

- Mar 1, 1989
- 76, Bishnupriya Manipuri Para, Vill. + P.O.: Deocherra, Panisagar, North Tripura
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Languages

- * English ●●●●●
- * Bishnupriya Manipuri ●●●●●
- * Hindi ●●●●●
- * Bengali ●●●●●

Technical Skills

- Languages
 - C, C++, Core Java, MATLAB, R Programming, Python
- Technology
 - JDBC, Keras, PyTorch
- Web Technology
 - HTML5, CSS3
- RDBMS
 - ORACLE 10G, MS SQL Server 2008
- Expertise
 - Ubuntu, Windows xp, vista, 7, 8, 10
- Typography
 - LaTeX, Beamer, Overleaf, Microsoft Office

Fellowship

- Currently **Senior Research Fellowship**
SRF under Defence Research and Development Organisation (DRDO) Sponsor Project entitled '*Development of object detection techniques from degraded complex video sequences due to dynamic variation of scenes by different atmospheric conditions for security and surveillance*', Govt. of India.
- 2015 – 2018 **UGC Non-NET Fellowship**
UGC Non-NET Fellowship by University Grants Commission, Govt. of India, during Doctor of Philosophy.
- 2010 – 2013 **SAU Financial Support (SAUFS) Scholarship**
Awarded scholarship of full fee waiver (Rs. 7000 / pm + 22,000 tuition fee + 5,000 hostel fee) by SAU Financial Support (SAUFS) Scholarship, South Asian University, August 2010 - June 2013 for pursuing MCA, which is granted on a need cum merit based system.

Education

- 2015 – 2021 **Doctor of Philosophy** Dept. of CSE, Tripura University
Thesis Title: Moving Object Detection in Night Vision.
- 2013 – 2015 **Master of Technology (74.65%)** Dept. of CSE, Tripura University
Thesis Title: Analysis and performance evaluation of ICA- based architectures for face recognition.
- 2010 – 2013 **Master of Computer Application (76.88%)** Dept. of CS, South Asian University
Thesis Title: Evaluation and Analysis of Grammatical Linguistic Pattern over Social Science and Technology Textbooks.
- 2007 – 2010 **Bachelor of Computer Application (69.82%)** Dept. of IT, M.B.B. College

Paper Presentation

- 2019 A Paper presented in 2nd International Conference on Innovations in Electronics, Signal Processing and Communication (IESC 2019) NIT-Meghalaya
- 2018 A Paper presented in 18th IEEE International Conference on Advanced Learning Technologies (ICALT 2018) IIT Bombay
- 2017 A Paper presented in 5th IEEE Region 10 Humanitarian Technology Conference (R10HTC 2017) BUET Dhaka
- 2015 2 Paper presented in 17th International Workshop on Combinatorial Image Analysis (IWCIA 2015) ISI Kolkata
- 2014 A Paper presented in National Seminar on E-Resource and E-Learning: Challenges and Opportunities for students BBMC Agartala
- 2014 A Paper presented in National Conference on Innovations and Advancements in Information Technology SIESCOMS Navi Mumbai

Certificates

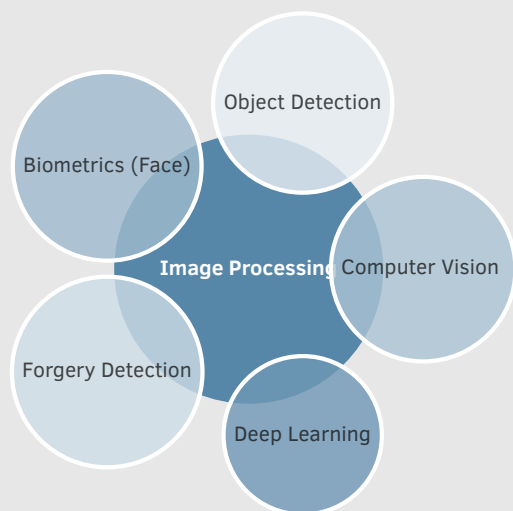
- February 2013 Computing for Data Analysis (R Programming), Coursera - Roger D. Peng, PhD Associate Professor of biostatistics Johns Hopkins Bloomberg School of Public Health
- September 2012 DB2 9 Database and Application Fundamentals, IBM Certified Academic Associate

Memberships

- 2011–2012 ACM student membership

Dr. Anu Singha

Research Interest –



Laboratory

- ▶ Computer Vision Laboratory
- ▶ Department of Computer Science and Engineering
- ▶ Tripura University (A Central University)
- ▶ Suryamaninagar, Agartala, India

Active Reviewer

- ▶ Journal of Multimedia Tools and Applications, Springer
- ▶ Journal of National Academy Science Letters, Springer

Publications

Journals

- 2021 **Journal: IEEE Transactions on human-machine systems, IEEE (Under Review)** IF-3.374 (SCI)
Title: Novel Deeper AWRDNet: Adverse Weather-Affected Night Scene Restorator Cum Detector Net for Accurate Object Detection
- 2020 **Journal: IETE Technical Review, Taylor&Francis (Under Review)** IF-1.845 (SCI)
Title: A Survey on Degraded and Non-degraded Computer Vision based Methodologies, Taxonomy, Analysis for Object Detection
- 2020 **Journal: Multimedia Tools and Applications, Springer** IF-2.313 (SCI)
Title: Akin-based Orthogonal Space (AOS): a subspace learning method for face recognition
- 2019 **Journal: IEEE Transactions on Circuits and Systems for Video Technology** IF-4.133 (SCI)
Title: Salient Features for Moving Object Detection in Adverse Weather Conditions during Night Time
- 2018 **Journal: Expert Systems With Applications, Elsevier** IF-5.452 (SCI)
Title: Enhancement of Robustness of Face Recognition System through Reduced Gaussianness in Log-ICA

Conferences

- 2021 **Proceedings: 28th IEEE International Conference on Image Processing (ICIP) [Tier II Conference], IEEE** Anchorage, Alaska, USA
Title: Annotated Video Splice Detection Dataset in Outdoor Degraded Vision For Digital Forensic Analysis (Communicated)
- 2020 **Proceedings: 11th IEEE International Conference on Computing Communication and Networking Technologies (ICCCNT 2020), IEEE** IIT-Kharagpur
Title: A Comparative Study of Background Segmentation Approaches in Detection of Person with Gun under Adverse Weather Conditions
- 2019 **Proceedings: 26th IEEE International Conference on Image Processing (ICIP) [Tier II Conference], IEEE** Taipei, Taiwan
Title: TU-VDN: Tripura University Video Dataset at Night Time in Degraded Atmospheric Outdoor Conditions for Moving Object Detection
- 2019 **Proceedings: 2nd International Conference on Innovations in Electronics, Signal Processing and Communication (IESC 2019), IEEE** NIT Meghalaya
Title: Moving Object Detection in Night Time: A Survey
- 2018 **Proceedings: 18th IEEE International Conference on Advanced Learning Technologies (ICALT 2018), IEEE** IIT Bombay
Title: Object Recognition using Representative Score Features
- 2017 **Proceedings: 5th IEEE Region 10 Humanitarian Technology Conference (R10HTC 2017), IEEE** BUET Bangladesh
Title: Enhancing Performance of PCA, ICA through Distribution Transformation
- 2017 **Proceedings: International Conference on Innovations in Electronics, Signal Processing and Communication (IESC 2017), IEEE** NIT Meghalaya
Title: A Comparative Analysis of Visual and Thermal Face Image Fusion based on Different Wavelet Family
- 2016 **Proceedings: 6th International Conference On Advances In Computing and Communications (ICACC 2016), Procedia Computer Science, Elsevier (Scopus Indexed)** Cochin, India
Title: Evaluation and Analysis of Grammatical Linguistic Pattern over Social Science and Technology Textbooks
- 2015 **Proceedings: 17th International Workshop on Combinatorial Image Analysis (IWCIA 2015), Lecture Notes Computer Science (LNCS), Springer (Scopus Indexed)** ISI, Kolkata
Title: Analysis and Performance Evaluation of ICA-based Architectures for Face Recognition

Book Chapters

2017

**Book Title: Modern Technologies for Big Data
Classification and Clustering, IGI Global**

Scopus Indexed

Book Chapter Title: Methodologies and Technologies to Retrieve
Information From Text Sources