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RAJIB DEBNATH

Personal Details:

- Name : Rajib Debnath.
- Father's Name : Sri Shrish Chandra Debnath.
- Mother's Name : Smt. Niyati Bhowmik.
- Date of Birth : 25th June, 1988.
- Residential Address : S/O- Shrish Chandra Debnath, Ambassa Bazar, Near TRTC Bus Stand, A. A. Road, Ambassa, Vill: Kanchanpur, Dist: Dhalai, Tripura, PIN – 799289.
- Corresponding Address : S/O- Shrish Chandra Debnath, College Tilla, Professor Para, Agartala, Tripura (W), P.O. – Agartala College, PIN - 799004
- Nationality : Indian.
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Educational Qualification:

- Pursuing **Ph.D.** from Computer Science & Engineering Department, Tripura University (A Central University), Tripura, India (Registration No.: Ph.D/10/CSE/07/16, Dated: 26.09.2016).
- **M. Tech** (Computer Science & Engineering) from Tripura University (A Central University), Suryamaninagar, Tripura, India with Grade B (72.30%) in 2012.
- **B. Tech** (Information Technology) from Bengal Institute of Technology & Management (BITM), Shantiniketan, Bolpur, West Bengal, India with the Grade of 7.0 in 2010.

Area of Interests:

- Image & Signal Processing
- Pattern Recognition
- Signal & Video Processing

Language Known: C, Java, Matlab, PHP, HTML.

Experience Details:

- Worked as a **Research Assistant** From 26.12.2013 to 31.08.2014, in the DeitY, MCIT, New Delhi, Govt. of India, funded project entitled, “**Creation of a Visual Face Database of North-Eastern People & Implementation of Techniques for Face Identification**” in the Department of Computer Science & Engineering, Tripura University (A Central University), Tripura, India.

- Worked as a **Project Assistant** From 28.05.2012 to 25.12.2013, in the DeitY, MCIT, New Delhi, Govt. of India, funded project entitled, “**Creation of a Visual Face Database of North-Eastern People & Implementation of Techniques for Face Identification**” in the Department of Computer Science & Engineering, Tripura University (A Central University), Tripura, India.

Projects Done:

- **Project in Final year of Master Degree in Computer Science & Engineering:**
A Study on Holistic and Feature Based Face Recognition Techniques for Image Registration Using Visual and Thermal (IR) Images:

This project provides a comprehensive study to compare applicability of different holistic and local feature based approaches for human face recognition using optical and infrared images, as well as fusion of optical and infrared images and also implements Image Registration techniques of optical and thermal face images of different viewpoints/ angles for aligning the images into same scene.

- **Project in Final year of Bachelor Degree in Computer Science & Engineering:**
College Captain (Faculty Database):

This project develops a software subsystem, which facilitates faculty information retrieval, publishing of immediate internal results and all other notices like next internal examination or about the upcoming holidays etc. All work has been done in WAMP (Windows, Apache, My SQL, and PHP) server.

Invited Talk:

- Delivered a Talk as a Resource Person in Short Term Training Programme (STTP) on “**Computational Information Processing and Data Security**”, held on 22.02.2016 to 02.03.2016, organized by Department of Information Technology and Funded by University Grants Commission (UGC), IQAC, Bir Bikram Memorial College (BBMC), Tripura

Laboratory Visits / Seminars / Courses / Schools attended:

- Attended MHRD Initiative Global Initiative of Academic Networks (GIAN) course on “**Image and Video Forensics**”, Department of Computer Science and Engineering, Tripura University, 12-16th March, 2018.
- Attended MHRD Initiative Global Initiative of Academic Networks (GIAN) course on “**Contrast Enhancement in Poor Visibility**”, Department of Computer Science and Engineering, Tripura University (A Central University), 5-9th March, 2018.
- Workshop on “**Photonics, Electronics, Nano Technology, Integrated Circuits and Systems**”, from 29.02.2016 to 04.03.2016 at Tripura University, organized by Institute of Radio Physics and Electronics, University of Calcutta in collaboration with Department of Electrical Engineering, Tripura University, India.
- 18th Workshop on “**Computational Information Processing**”, from 04.02.2016 to 05.02.2016 at Dasaratha Deb Memorial College, Khowai, Tripura, organized by Electronics and Communication Sciences Unit, Indian Statistical Institute (ISI), Kolkata, India.
- National Level Workshop on “**Computational Aspects of Inflammatory Pain Related Diseases**”, on 20.11.2015, organized by department of Computer Science & Engineering, Tripura University (A Central University), Tripura, India.

- Two Days National Workshop on **“Emerging Areas in Wireless Networks & Communication”**, from 01.08.2015 to 02.08.2015 at Tripura University, Jointly organized by The Institute of Engineers (India), Tripura State Centre & Department of Computer Science & Engineering and Department of Information Technology, Tripura University (A Central University), Tripura, India.
- Workshop on **“North-East Summer Workshop in Analysis and Probability 2015 (NE-SWAP2015)”**, from 27.06.2015 to 30.06.2015 at Tripura University, organized by Department of Mathematics in collaboration with Indian Statistical Institute (ISI), Bangalore, India.
- Author Workshop on **“How to Use Online Resources and Develop Skills to Write and Publish”**, on 25.03.2015, organized by **Wiley** in collaboration with Central Library, Tripura University, at Tripura University, Agartala.
- Workshop on **“Fundamentals of Image Analysis and Pattern Recognition”**, from 06.02.2015 to 08.02.2015 at Tripura University, organized by Department of Computer Science & Engineering in collaboration with Department of Information Technology, Tripura University (A Central University), Tripura, India.
- Author Workshop on **“Skill Development to Write Scientific Literature, Quality Improvement of Manuscript for Publication Success”** on 18.11.2014, organized by **Springer** in collaboration with Central Library, Tripura University, at Tripura University, Agartala.
- Author Workshop on **“Understanding the books & Journal Article Publishing Process”**, on 26.09.2014, organized by **Elsevier** in collaboration with Central Library, Tripura University, at Tripura University, Agartala.
- Workshop on **“Activities of Society for Applied Microwave Electronics Engineering & Research in Emerging Fields of Computer & Electronics Science & Engineering”**, on 05.07.2014, organized by Computer Science & Engineering Department, Tripura University (A Central University), Tripura, and SAMEER, IIT Bombay Campus, Powai, Mumbai, India.
- Participated a National Seminar on, **“E-resource and E-learning: Challenges and Opportunities for students”**, from 25.07.14 to 26.07.14, organized by Department of Information Technology, Bir Bikram Memorial College (BBMC), College Tilla, Agartala, and Sponsored by UGC.
- **“National Institute of Electronics and Information Technology (NIELIT), Itanagar”**, visit from 19.05.2014 to 30.05.2014, to create the Department of Electronics & Information Technology – Tripura University (DeitY - TU) Face Database, sponsored by DeitY, MCIT, New Delhi, India.
- **“North Eastern Hill University (NEHU), Shillong”**, visit from 04.03.2014 to 20.03.2014, to create the Department of Electronics & Information Technology – Tripura University (DeitY - TU) Face Database, sponsored by DeitY, MCIT, New Delhi, India.
- Workshop on **“Digital Holography”**, from 23.05.2013 to 24.05.2013, organized by Department of Computer Science & Engineering and Department of Information Technology, Tripura University (A Central University), Tripura, India.
- **“National Institute of Electronics and Information Technology (NIELIT), Imphal”**, visit from 22.09.2012 to 06.10.2012, to create the North-East Indian (NEI) Face Database, sponsored by DeitY, MCIT, New Delhi, India.
- **“National Institute of Electronics and Information Technology (NIELIT), Kohima”**, visit from 22.07.2012 to 6.08.2012 to create the North-East Indian (NEI) Face Database, sponsored by DeitY, MCIT, New Delhi, India.

- **“National Institute of Electronics and Information Technology (NIELIT), Guwahati”**, visit from 28.02.2012 to 16.03.2012 to create the North-East Indian (NEI) Face Database, sponsored by DeitY, MCIT, New Delhi, India.
- **“National Institute of Electronics and Information Technology (NIELIT), Aizawl”**, visit from 23.01.2012 to 4.02.2012 to create the North-East Indian (NEI) Face Database, sponsored by DeitY, MCIT, New Delhi, India.
- Completed a Course on **VB.NET**, from February 2010 to April 2010, at the **Brainware Computer Academy**, Y8 Block EP, Sector V, Salt Lake, Kolkata – 700091, with the performance of **Very Good** (70% or above and below 80%).
- A Practical Training on **“Computer Network and Communication”**, during the period from 29.06.2009 to 25.07.2009 under SDE (BD), SDE (Computer) Agartala, at **Bharat Sanchar Nigam Limited Telecom**, A Govt. of India Enterprise, Agartala, Tripura, India.
- Completed a Course on **Core Java**, from 25th June 2008 to 6th August 2008, at the **IBM Advanced Career Education**, 17 (15/1) Ghoshpara Road, 1st Floor, Barrackpore, 24 Pgs. (North), Kol – 700120, with the Grade **C**.

Seminar / Conference Presentations:

- Presented a paper on **“Surface Plasmon Resonance Spectroscopy Observed in Kretschmann Prism System with Titanium and Gold Thin Films”**, in the Second Intl. Conference on Material Science (ICMS 2017), Feb. 16-18, 2017, Organized by Department of Physics, Tripura University (A Central University), Tripura, (Paper ID: 10TFSS).
- Presented a paper on **“Analysis of Surface Plasmon Resonance for Incoherent Light Sources”**, in the Second Intl. Conference on Material Science (ICMS 2017), Feb. 16-18, 2017, Organized by Department of Physics, Tripura University (A Central University), Tripura, (Paper ID: 07ST).
- Presented a paper on **“North-East Indian Face Database: Its Design and Aspects”**, in the 4th International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom 2012, October 19-20, 2012, Organized by Association of Computer Electronics and Electrical Engineers (ACEEE), Bangalore, India.
- Presented a paper on **“Comparative Studies on Holistic and Local Feature-based Face Recognition Techniques Using Optical and Infrared Images”**, in the 3rd National Conference on Emerging Trends and Application in Computer Science (NCETACS 12), March 30-31, 2012, Organized by Department of Computer Science and Internal Quality Assurance Cell, St. Anthony’s College, Shillong – 793001, Meghalaya, India.

Publications:

International Conference / Seminar Publications: Four

- A. K. Ghosh, **Rajib Debnath**, U. Das and M. K. Bhowmik, **"Surface Plasmon Resonance Spectroscopy Observed in Kretschmann Prism System with Titanium and Gold Thin Films"**, Second International Conference on Material Science (ICMS 2017), Organized by Department of Physics, Tripura University (A Central University), Tripura, Feb. 16-18, 2017 (paper no. 10TFSS).

- A. K. Ghosh, **Rajib Debnath** and M. K. Bhowmik, "**Analysis of Surface Plasmon Resonance for Incoherent Light Sources**", Second International Conference on Material Science (ICMS 2017), Organized by Department of Physics, Tripura University (A Central University), Tripura, Feb. 16-18, 2017 (paper no. 07ST).
- Goutam Majumder, **Rajib Debnath**, Mrinal Kanti Bhowmik, Debotosh Bhattacharjee and Mita Nasipuri, "**Image Registration of North-Eastern Indian (NEI) Face Database**", 1st International Conference on Intelligent Infrastructure, organized by Computer Society of India Kolkata Chapter (CSI 2012), Science City, Kolkata, India, published by Tata McGraw Hill, pp. 286-290, Dec 1-2, 2012, ISBN-13: 978-1-25-906170-7, ISBN-10: 1-25-906170-1.
- Kankan Saha, **Rajib Debnath**, Mrinal Kanti Bhowmik, Debotosh Bhattacharjee, and Mita Nasipuri, "**North-East Indian Face Database: Its Design and Aspects**", Proceedings of the 4th International Conference on Advances in Recent Technologies in Communication and Computing (ARTCom 2012), Bangalore, India, organized by the Association of Computer Electronics and Electrical Engineers (ACEEE), published by Springer, LNEE, pp. 450 – 456, Oct. 19-20, 2012.

National Conference / Seminar Publications: One

- Mrinal Kanti Bhowmik, Arup Ratan Bhowmik, **Rajib Debnath**, Debotosh Bhattacharjee, "**A Comparative Studies Holistic & Local Feature-based Face Recognition Techniques using Optical and Infrared (IR) Images**", 3rd National Conference on Emerging Trends and Applications in Computer Science, St. Anthony's College, Shillong, India, pp:102-114, 30-31 March, 2012, **published by IEEE xplore.**