

Name: Dr. Swanirbhar Majumder
Present Designation: Professor
Department: Information Technology, Tripura University,
 Suryamaninagar, Tripura-799022
Date of Joining: 09/11/2020 (As Professor)
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 Agartala, Tripura- 799001, West Tripura Dist.



Academic Qualifications:

- CMI (Chartered Management Institute), U.K., Level 5, Award in Management and Leadership, 2021 under AICTE-UKER AY 2020-21. **(P04800600)**
- PhD , Jadavpur University, (Thesis on Biometric based Image Watermarking for Security), 2015
- M.Tech , University of Calcutta, (Thesis on Biomedical Signal Processing), 2006
- B.Tech , NERIST, North Eastern Hill University, (Thesis on Image Processing), 2004

Research Area: Image Processing, Biomedical Signal Processing, Biometrics, Security, Soft computing, Speech and Natural Language Processing

Brief Profile:

Dr. Swanirbhar Majumder has more than 15 years of teaching experience since 2006. He is presently working as a Professor in the department of Information Technology, in Tripura University (A Central University), in Tripura since 2020. He had joined the University as an Associate Professor in the Department in 2017. He has been Heading the department since January'2018. Initially he started off as an Assistant Professor, Dept of ECE, North Eastern Regional Institute of Science and Technology (Deemed to be University) under MHRD, Govt. of India in Arunachal Pradesh, way back in 2006. He had completed his B.Tech from North Eastern Hill University (NEHU), Shillong, M.Tech from University of Calcutta and PhD from Jadavpur University. He has till date guided 5 PhDs and presently 6 candidates are registered under him in Departments of IT. His area of specialization is Biomedical Signal and Image Processing, NLP and soft computing. He has more than 70 publications in various International Journals, Conferences, Books and Book Chapters.

Experience:

Designation	Department	University/ Institute	From	To
Professor	Information and Technology (IT)	Tripura University (A Central University), Suryamaninagar, Agartala, Tripura-799022	09/11/20	Till Date
Associate Professor			09/11/17	08/11/20
Assistant Professor (Gr-III)	Electronics and Communication Engineering (ECE)	NERIST (Deemed to be University), Nirjuli, Arunachal Pradesh- 791109	14/07/16	08/11/17
Assistant Professor (Gr-II)			14/07/11	13/07/16
Assistant Professor (Gr-I)			14/07/06	13/07/11

Membership/Positions in Learned Academic Bodies/Organizations:

- **Life Member** of ISTE (Indian Society for Technical Education)
- **Senior Member** of IEEE (Institute of Electrical and Electronics Engineers)
- **Member** of ACM (Association for Computing Machinery)
- **Member** of IEI (Institution of Engineers India)
- **Member** IETE (Institution of Electronics and Telecommunication Engineers)

Administration in last few years:

- **Head** Dept of IT, Tripura University from January'2018 to till date
- **NODAL Officer** AICTE Doctral Fellowship (ADF), Tripura University.
- **NODAL Officer** for AICTE Translation tools, Tripura University.
- **Single Point of Contact (SPOC), SWAYAM-** Tripura University Local Chapter since 2018
- **Coordinator** Mandatory Computer Skill I (CSK I) of all PG courses of Tripura University since August'2018 to till date
- **Coordinator** Mandatory Computer Skill II (CSK II) of all PG courses of Tripura University since August'2019 to till date
- **NBA Coordinator** of Dept of ECE, NERIST Arunachal Pradesh in 2016.
- **Mentor GOAL** (Going Online As Leaders) ID: 1500007061 an initiative of Ministry of Tribal Affairs and Facebook India.
- **Chairman BPGS, DRC and BUGS** of Dept of IT, Tripura University since 2018 to till date.
- **Member of BFS, Science** Tripura University and DRC and BPGS of various departments of Tripura University
- **Member BOS**, Dept of CSE, Kaziranga University, Assam.

PHD Thesis Awarded:

1. **Dr. Maibam Sanju Meitei**, PhD from Department of Electronics and Communication and Engineering, NERIST Arunachal Pradesh with Dr. A. Dinamani Singh, NIT, Manipur: ***"A systematic approach for modelling and designing of MEMS differential Capacitive pressure sensor and beam based piezoelectric pressure sensor"*** in **2022**.
2. **Dr. Joyanta Basu**, PhD from Department of Electronics and Communication and Engineering, NERIST Arunachal Pradesh: ***"Language and Speaker Identification in Low Resource Indian Languages"***, in **2022**
3. **Dr. Tamojay Deb**, Phd from Department of Information Technology, Tripura University (A Central University), Tripura with Prof. A. Mukherjee and Prof. A. K. Ghosh: ***"Studies of Some Applications of Singular Value Decomposition In The Area of Image Processing And Pattern Recognition"***, in **2021**.
4. **Dr. Sinam Ajitkumar Singh**, PhD from Department of Electronics and Communication and Engineering, NERIST Arunachal Pradesh: ***"Study of PCG and ECG based Cardiovascular Abnormality"***, in **2020**
5. **Dr. Manashee Kalita**, PhD from Department of Computer Science and Engineering, NERIST Arunachal Pradesh with Prof. T. Tuithung, NIT, Nagaland: ***"Development of New Steganography Methods in Spatial and Transform Domain"*** in **2020**.

Programs organized in last few years:

- **Advisory Chair** ATAL (AICTE Training and Learning) FDP on "Introduction to Quantum Computing: Advanced Level" 7th to 11th February'2022.
- **Advisor** 4th One-week National Workshop on "Emerging Technologies in Research" (ETTR-2021) 13th to 17th December'2021.
- **Advisor** ATAL (AICTE Training and Learning) FDP on "Smart City and IoT" 22nd to 26th November'2021.
- **Advisory Chair** ATAL (AICTE Training and Learning) FDP on "Introduction to Quantum Computing: Elementary Level" 8th to 12th November'2021.
- **Coordinator** for Online Workshop on "Embedding Computational Thinking to make Education Systems relevant for the Youth" for young school teachers from 9th to 13th August'2021 for College Students sponsored by Rajiv Gandhi National institute of Youth Development (RGNIYD).

- **Coordinator** for Online Workshop on “Basic Digital Literacy focussing on Computer Skills for Youth” from 26th to 20th July’2021 for College Students sponsored by Rajiv Gandhi National institute of Youth Development (RGNIYD).
- **Coordinator** for CALEM HRDC and AMU One-week Academic Leadership Program from 16th to 22nd February’2021.
- **Advisor** 3rd One-week National Workshop on “Emerging Technologies in Research” (ETTR-2020) 14th to 18th December’2020.
- **Advisor** ATAL (AICTE Training and Learning) FDP on “Data Science and Data Mining” 10th to 14th February’2020.
- **Organizing Chair** International Conference on Computer Communication and Internet of Things from 3rd to 4th February’2020 organized by Dept of IT, Tripura University sponsored by NEC, Shillong.
- **Coordinator** ATAL (AICTE Training and Learning) FDP on “Machine Learning and Artificial Intelligence” 13th to 17th January’2020.
- **Program Chair** 2nd International Conference on Information Systems and Management Science (ISMS-2019), from 6th to 7th December’2019 organized by Dept of IT and Business Management, Tripura University with IASSSE.
- **Advisor** 2nd One-week National Workshop on “Emerging Technologies in Research” (ETTR-2019) 5th to 9th November’2019.
- **Coordinator** ATAL (AICTE Training and Learning) FDP on “Recent Trends in Quantum Computing” 23rd to 27th September’2019.
- **Advisor** 1st One-week National Workshop on “Emerging Technologies in Research” (ETTR-2019) 5th to 9th November’2018.

Publications: Can be obtained from the following standard links (**CLICK for details**)

Publons ResearcherID	Orcid	Scopus	Google Scholar
Microsoft Academic Search	LinkedIN	ResearchGate	Vidwan

SCI/Scopus Journals:

1. Multilingual Speech Corpus in Low-Resource Eastern and Northeastern Indian Languages for Speaker and Language Identification. Springer Journal of Circuits Syst Signal Process (2021). <https://doi.org/10.1007/s00034-021-01704-x> (Joyanta Basu, Soma Khan, Rajib Roy, Tapan Kumar Basu, Swanirbhar Majumder)
2. “Neural network-based computer-aided lung cancer detection”, Research on Biomedical Engineering. Electronic ISSN:2446-4732, E-ISSN:2446-4740 <https://doi.org/10.1007/s42600-021-00173-0> Springer Publishers (Ananya Bhattacharjee, R Murugan, Swanirbhar Majumder, Tripti Goel)
3. “A Deep Neural Network approach for P300 detection-based BCI using single-channel EEG scalogram images” Physical and Engineering Sciences in Medicine, The Official Journal of the Australasian College of Physical Scientists and Engineers in Medicine Impact factor: 1.430 (2020), Five year impact factor: 1.467 (2020) Electronic ISSN: 2662-4737, Print ISSN: 2662-4729, Springer Publishers <https://doi.org/10.1007/s13246-021-01057-4> (Sinam Ajitkumar Singh, Takhellambam Gautam Meitei, Ningthoujam Dinita Devi, Swanirbhar Majumder)
4. "Heart Abnormality Classification Using PCG and ECG Recordings", Computación y Sistemas, ISSN 2007-9737, print ISSN 1405-5546, Vol. 25, No. 2, 2021, pp. 381–391, doi: 10.13053/CyS-25-2-3447 (Sinam Ajitkumar Singh, Sinam Ashinikumar Singh, Ningthoujam Dinita Devi, Swanirbhar Majumder)
5. “A Novel Design Approach for Beam Bridge Structure Pressure Sensor Base on PZT5A Piezoelectric”. Journal of Engineering Science and Technology Review (JESTR), Review 14 (1) (2021) 193 – 199, ISSN: 1791-2377(Maibam Sanju Meetei, Aheibam Dinamani Singh, Swanirbhar Majumder)
6. "Short unsegmented PCG classification based on ensemble classifier", TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, Turk J Elec Eng & Comp Sci,(2020) Volume 28 , Issue 2, Pages 875 – 889 Impact Factor 0.792, 5-year Impact Factor:0.860, Copyright © 2020 doi:10.3906/elk-1905-165, E-ISSN: 1303-6203, ISSN: 1300-0632. (S. A. Singh, S. Majumder)

7. "A Mathematical Modelling And 3D Simulation Of ZnO Piezoelectric Base Cantilever For Pressure Sensing", Page 37-41 of IJSTR(International Journal of Scientific & Technology Research) Volume 9 - Issue 9, September 2020 Edition - ISSN 2277-8616, (Maibam Sanju Meetei, Aheibam Dinamani Singh, Swanirbhar Majumder, Ome Moyong)
8. "A Novel Design And Optimization For Beam Bridge Piezoelectric Pressure Sensor", International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 11, Issue 12, pp.2687-2701, December 2020, Article ID: IJARET_11_12_253, Available online at <http://iaeme.com/Home/issue/IJARET?Volume=11&Issue=12>, ISSN Print: 0976-6480 and ISSN Online: 0976-6499, DOI: 10.34218/IJARET.11.12.2020.253 (Maibam Sanju Meetei, Heisnam Shanjit Singh, Aheibam Dinamani Singh, Swanirbhar Majumder)
9. "A New Steganography Method Using Integer Wavelet Transform and Least Significant Bit Substitution", Section C: Computational Intelligence, Machine Learning and Data Analytics, The Computer Journal, Volume 62, Issue 11, November 2019 published by Oxford University Press, Impact Factor 0.792, 5-year Impact Factor: **0.993**/1.077, Copyright © 2019 DOI: :10.1093/comjnl/bxz014, British Computer Society, ISSN 0010-4620. (M. Kalita, S. Majumder, T. Tuithung)
10. "An Adaptive Color Image Steganography Method using Adjacent Pixel Value Differencing and LSB Substitution Technique", Cryptologia Journal, published by Taylor and Francis, Volume 43, 2019 - Issue 5, Pages 414-437 Impact Factor 0.326, ISSN: 0161-1194 (Print) 1558-1586 (Online). DOI: 10.1080/01611194.2019.1579122 (M. Kalita, S. Majumder, T. Tuithung)
11. "Classification of unsegmented PCG recording using KNN classifier", Journal of Mechanics in Medicine and Biology, published by World Scientific Press, Impact factor: 0.468, ISSN (print): 0219-5194 | ISSN (online): 1793-6810. <https://doi.org/10.1142/S0219519419500258>, Vol. 19, No. 04, 1950025 (2019) DOI: 10.1142/S0219519419500258 (S. A. Singh, S. Majumder)
12. "A novel approach OSA detection using single lead ECG scalogram based on deep neural network", Journal of Mechanics in Medicine and Biology, published by World Scientific Press, Impact factor: 0.468, ISSN (print): 0219-5194 | ISSN (online): 1793-6810. <https://doi.org/10.1142/S021951941950026X> Vol. 19, No. 04, 1950026 (2019) DOI: 10.1142/S021951941950026X. (S. A. Singh, S. Majumder)
13. "A Mathematical Modelling and 3D Analysis of PZT-5H Piezoelectric Base Bridge Pressure Sensor" International Journal of Mechanical Engineering and Technology (IJMET), Volume 10, Issue 11, November 2019, pp. 407-415, Article ID: IJMET_10_11_034, Available online at <http://www.iaeme.com/ijmet/issues.asp?JType=IJMET&VType=10&IType=11>, ISSN Print: 0976-6340 and ISSN Online: 0976-635, (Maibam Sanju Meetei, Aheibam Dinamani Singh, Swanirbhar Majumder)
14. "Multiresolution SVD Based Image Watermarking Scheme Using Noise Visibility Function", International Journal of Applied Evolutionary Computation (IJAEC) Volume 8, Issue 1, pg 38-48, ISSN: 1942-3594 DOI: 10.4018/ijaec.2017010103 IGI Global publishers. (S. Majumder)
15. "Hardware implementation of Singular Value Decomposition", Journal of The Institution of Engineers (India): Series B, Electrical, Electronics & Telecommunication and Computer Engineering, Journal no. 40031, Springer ISSN : 2250-2106 (P) 2250-2114 (O) June 2016, Volume 97, Issue 2, pp 227-231 DOI: 10.1007/s40031-014-0158-0 (Swanirbhar Majumder, Anil Kumar Shaw, Subir Kumar Sarkar)
16. "Artificial Neural Networks and Gene Expression Programming Based Age Estimation Using Facial Features", Volume 27, Issue 4, October 2015, Pages 458-467 Elsevier International Journal of King Saud University - Computer and Information Sciences ISSN 1319-1578 DOI: 10.1016/j.jksuci.2014.06.017 (Baddrud Z Laskar, Ashutosh Pandey, Swanirbhar Majumder)
17. "A Joint SVD based Watermarking and Encryption Scheme using Chaotic Logistic Map", The ECTI TRANSACTIONS ON COMPUTER ENG., COMPUTER and INFORMATION TECHNOLOGY (ECTI-CIT) pg 101-105, Vol 9 No 2 ISSN NO: 2286-9131 (M. Saikia, S. Majumder)
18. "Singular value decomposition and wavelet-based iris biometric watermarking", in IET Biometrics, Volume 2, Issue 1, March 2013, p. 21 – 27, DOI: 10.1049/iet-bmt.2012.0052, Print ISSN 2047-4938, Online ISSN 2047-4946 (S. Majumder, K Jilen Kumari Devi, S. K. Sarkar)
19. "Back propagation artificial neural network (BPANN) based performance analysis of diesel engine using biodiesel", International Journal for Renewable and Sustainable Energy, Volume 3, Issue No. 1, published 3rd January 2011 (doi:10.1063/1.3517229) [ISSN 1941-7012], published by American Institute of Physics. (Sumita Deb Barma, Biplab Das, Asis Giri, S. Majumder, and P. K. Bose)
20. "A hybrid wavelet and time plane based method for QT interval measurement in ECG signals", J. Biomedical Science and Engineering, 2009, 2, 280-286 doi: 10.4236/jbise.2009.24042 Published Online August 2009. (S. Majumder, S. Pal, S. Dhar, A. Sinha, A. Roy)

Other Journals:

1. P. Sivakumar, R. K. Prasad, S. Chandramouli, S. Majumder, "Uncertainty Analysis of Water Distribution Network Using linked EPANET-Vertex Method", International Journal of Innovative Research in Science, Engineering and Technology (IJRSET), Vol 3, Issue 12, ISSN: 2319-8753 published December 2014.
2. "Word level detection of Galo and Adi language using acoustical cues", pg 10-13, Volume-1, Issue-1 of International Journal of Scientific Research in Computer Science and Engineering(IJSRCSE), ISSN: 2320 - 7639, Jan- Feb-2013 (Marpe Sora, Jyotismita Talukdhar, S. Majumder, P.H Talukdhar, U.Sharmah)
3. "A Novel Watermarking using Multiresolution SVD", in pg 35-39, International Journal of Electrical, Electronics and Computer Engineering, ISSN 2277-2626, Special Edition for Best Papers of Michael Faraday IET India Summit-2012, MFIS-12, December 2012, (S. Majumder, S. Swarnalipi, Souvik Sarkar, S. K. Sarkar)
4. "BPNN and SVD based Watermarking Scheme", International Journal of Recent Trends in Engineering [ISSN 1797-9617] DOI: 01.IJRTET 04.01.3, pg 44-47 of Volume 4 No. 1 , February 2011. (S. Majumder, T. S. Das, S. K. Sarkar)
5. "SVD and Lifting Wavelet Based Fragile Image Watermarking", International Journal of Recent Trends in Engineering [ISSN 1797-9617], pg 97-100 of Volume 3 No. 1 May 2010. DOI: 01.IJRTET.2010.03.01.83 (S. Majumder, T. S. Das, S. Sarkar, S. K. Sarkar)
6. "An Empirical Mode Decomposition Based QT Detection Scheme for ECG Signals", International Journal of Recent Trends in Engineering [ISSN 1797-9617], pg 198-200 Volume 3 No 3 May 2010 DOI: 01.IJRTET.2010.03.03.84 (S Majumder, A D Singh, R. K. Mangang, S. Pal)
7. "Multidimensional Multimetric Novel and Simple Techniques for Iris Recognition System", International Journal of Recent Trends in Engineering [ISSN 1797-9617], pg 161-166 Volume 3 No 3 May 2010 DOI: 01.IJRTET.2010.03.03.147 (R. Kalita, S. Majumder and Md. A. Hussain)

Books

1. "Hybrid SVD based Image Watermarking" Author: Swanirbhar Majumder, ISBN-13:978-3-659-85454-5, ISBN-10: 3659854549, EAN: 9783659854545, LAP Publishers, Germany, 2016.
2. Time Plane, Feature Extraction of ECG wave and Abnormality Detection, Authors: Swanirbhar Majumder, Dr. Saurabh Pal & Prof. Madhuchhand Mitra, ISBN-13: 978-3-8473-3977-9, ISBN-10: 384733977X, EAN: 9783847339779, LAP Publishers, Germany,2011.

Book Chapters:

1. Chapter 7, "A Study on Sleep Stage Classification Based on a Single Channel EEG Signal" in pg 135-152, of book titled, "Electronic Devices, Circuits, and Systems for Biomedical Applications: Challenges and Intelligent Approach", <https://doi.org/10.1016/C2020-0-02289-9> edited by Suman Lata Tripathi, Kolla Prakash, Valentina Balas, S.K. Mohapatra and Janmenjoy Nayak, ISBN: 9780323851725, of Elsevier Academic Press. <https://doi.org/10.1016/B978-0-323-85172-5.00016-2>(Sinam Ajitkumar Singh, Sinam Ashinikumar Singh, Swanirbhar Majumder and Ningthoujam Dinita Devi)
2. Chapter 11, "Computing Mortality for ICU Patients Using Cloud Based Data". In: Bansal J.C., Fung L.C.C., Simic M., Ghosh A. (eds) "Advances in Applications of Data-Driven Computing. Advances in Intelligent Systems and Computing", <https://link.springer.com/book/10.1007/978-981-33-6919-1> vol 1319. Springer, Singapore. https://doi.org/10.1007/978-981-33-6919-1_11 (Sucheta Ningombam, Swararina Lodh, Swanirbhar Majumder)
3. Chapter 1, "Short and noisy Electrocardiogram classification based on deep learning", Pg 1-34 of book titled, "Deep Learning for Data Analytics-Foundations, Biomedical Applications, and Challenges", edited by Himansu Das, Chittaranjan Pradhan and Nilanjan Dey, ISBN: 978-0-12-819764-6, <https://doi.org/10.1016/B978-0-12-819764-6.00002-8> of Elsevier Academic Press. (Sinam Ajitkumar Singh, Swanirbhar Majumder)
4. Chapter 6, "Short PCG classification based on deep learning", in Book on "Deep Learning Techniques for Biomedical and Health Informatics", Editors: Dr. Basant Agarwal Valentina E. Balas Lakhmi Jain Ramesh Chandra Poonia Manisha Sharma Pages 141-164 ISBN: 978-0-12-819061-6 by Elsevier Academic Press. <https://doi.org/10.1016/B978-0-12-819061-6.00006-9> (Sinam Ajitkumar Singh, Takhellambam Gautam Meitei, Swanirbhar Majumder)
5. Chapter 1, "PCG-Based Biometrics", pg 1-25; of book "Handbook of Research on Information Security in Biomedical Signal Processing", DOI: 10.4018/978-1-5225-5152-2, April'2018, by Chittaranjan Pradhan, Himansu Das, Bighnaraj Naik and Nilanjan Dey, ISBN13: 9781522551522|ISBN10: 1522551522|EISBN13: 9781522551539, DOI: 10.4018/978-1-5225-5152-2.ch001 (Takhellambam Gautam Meitei, Sinam Ajitkumar Singh and S. Majumder)

6. Chapter 26, "Steganography using Biometrics", pg 326-347, in Advanced Methodologies and Technologies in System Security, Information Privacy and Forensics, DOI: 10.4018/978-1-5225-7492-7 Fourth Edition (10 Volumes) by Mehdi Khosrow-Pour, ISBN13: 9781522574927|ISBN10: 1522574921|EISBN13: 978152257493, DOI: 10.4018/978-1-5225-7492-7.ch026 (Manashee Kalita, Swanirbhar Majumder Chapter 432, "Steganography using Biometrics", in Encyclopedia of Information Science and Technology, DOI: 10.4018/978-1-5225-2255-3 Fourth Edition (10 Volumes) by Mehdi Khosrow-Pour, ISBN13: 9781522522553, ISBN10: 1522522557, EISBN13: 9781522522560, DOI: 10.4018/978-1-5225-2255-3.ch432 (Manashee Kalita, Swanirbhar Majumder)
7. Chapter 10, "Gene Expression Programming", pg 269 to 292 of Book "Bio-Inspired Computing for Information Retrieval Applications" by D. P. Acharya and Anirban Mitra ISBN13: 9781522523758|ISBN10: 1522523758|EISBN13: 9781522523765|DOI: 10.4018/978-1-5225-2375-8; DOI: 10.4018/978-1-5225-2375-8.ch010 (B. Z. Laskar, and S. Majumder)
8. Chapter 6 on "Biomedical Image Processing and Analysis" in the "Intelligent Analysis of Multimedia Information" with Editors Dr. S. Bhattacharyya, Mr. H Bhaumik, Dr. S. De and Dr. G. Klepac, For Advances in Multimedia and Interactive Technologies Book Series with Editor(s): Joel J.P.C. Rodrigues, ISSN: 2327-929X, ISBN13: 9781522504986| ISBN10: 1522504982| EISBN13: 9781522504993, 2016. (S. Majumder, S. Majumder)
9. Chapter 9 on "Trends of ECG Analysis and Diagnosis" in the "Handbook of Research on Trends in the Diagnosis and Treatment of Chronic Conditions" with Editor Prof. Dimitrios I. Fotiadis published by IGI Global 2014 DOI: 10.4018/978-1-4666-8828-5 ISBN13: 9781466688285, ISBN10: 1466688289, EISBN13: 9781466688292 (Swanirbhar Majumder, S. Pal)
10. Chapter 16, "ECG-Based Biometrics". In G. Deka, & S. Bakshi (Eds.) Handbook of Research on Securing Cloud-Based Databases with Biometric Applications (pp. 337-363). Hershey, PA: Information Science Reference. doi:10.4018/978-1-4666-6559-0.ch016 , ISBN13: 9781466665590, ISBN10: 1466665599, EISBN13: 9781466665606 (S. Majumder, S. Pal)
11. Chapter 24, "Watermarking of data using Biometrics", pg 623-648 of "Handbook of Research on Computational Intelligence for Engineering, Science and Business", published by IGI Global DOI: 10.4018/978-1-4666-2518-1, ISBN13: 9781466625181, ISBN10: 146662518X, EISBN13: 9781466625198 (S. Majumder, T. S. Das)
12. Chapter 6 ECG Data Analysis pg 122-144, in ISBN 978-1-61520-977-4, Intelligent Medical Technologies and Biomedical Engineering: Tools and Applications edited by Prof. Anupam Shukla & Prof. Ritu Tiwari for IGI Global Publishers (S. Majumder, S. Pal)

International Conference papers:

1. "Deep Learning based noise identification in the Optical fiber communication using Variational Mode Decomposition", in proceedings of 2nd International Conference on Applied Electromagnetic Signal Processing & Communication-AESPC 2021, organized School of Electronics Engineering, KIIT, Odisha from 26th to 28th November 2021(Nitish Sinha, Manthan Ghosh, Swanirbhar Majumder and Bishanka Brata Bhowmik)
2. "Performance Evaluation of Speaker Identification in Language and Emotion Mismatch Conditions on Eastern and North Eastern Low Resource Languages of India", 3rd International Conference on Smart Systems Innovations in Computing (SSIC) 2021, 22nd – 23rd January, 2021, Manipal University, Jaipur In: Nanda P., Verma V.K., Srivastava S., Gupta R.K., Mazumdar A.P. (eds) Data Engineering for Smart Systems. Lecture Notes in Networks and Systems, vol 238. Springer, Singapore. https://doi.org/10.1007/978-981-16-2641-8_49 (Joyanta Basu, Tapan Kumar Basu and Swanirbhar Majumder)
3. "A Review on Pattern Recognition-Based Retinal Blood Vessels Extraction Technique to Detect Diabetic Retinopathy (DR)". Proceedings of 2nd International Conference on Data Science and Applications (ICDSA 2021), dated 10-11 April' 2021, by School of Mobile Computing and Communication, Jadavpur University, Kolkata, India, and Soft Computing Research Society In: Saraswat M., Roy S., Chowdhury C., Gandomi A.H. (eds) Proceedings of International Conference on Data Science and Applications. Lecture Notes in Networks and Systems, vol 287. Springer, Singapore. Print ISBN:978-981-16-5347-6, Online ISBN: 978-981-16-5348-3 https://doi.org/10.1007/978-981-16-5348-3_5(Smita Das, Swanirbhar Majumder)
4. "Fingerprint Authentication System for BaaS Protocol" Proceedings of International Conference on Computer Communication and Internet of Things (ICCCIoT 2020) organized by Dept of IT, Tripura University on 3rd and 4th February'20 and Sponsored by NEC, Shillong, as pg 39-48 of Book Chapter No 4, in Lect. Notes in Networks, Syst., Vol. 137, Edited by Jyotsna K. Mandal et al: APPLICATIONS OF INTERNET OF

- THINGS, 978-981-15-6197-9, 498298_1_En (4) https://doi.org/10.1007/978-981-15-6198-6_4 (Ranadhir Debanath, Swarup Nandi, Swarnirbhar Majumder)
5. "Performance Evaluation of Language Identification on Emotional Speech Corpus of Three Indian Languages", pg-55-63, of Proceedings of Second Doctoral Symposium on Intelligence Enabled Research (DoSIER 2020), Organized by Visva-Bharati University, Santiniketan, India, August 12-13, 2020, as Chapter 6 of *Advances in Intelligent Systems, Computing*, Vol. 1279, Siddhartha Bhattacharyya et al. (Eds): Intelligence Enabled Research, 978-981-15-9289-8, 498363_1_En, (Chapter 6) http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-15-9290-4_6 (Joyanta Basu, Swarnirbhar Majumder)
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