

Publication
Of
Bio-Medical Engineering
Department

LIST OF PAPERS PUBLISHED in 2020

| Sl | Author (Including Co-author) | Title of the Paper | Detail of Paper (including Vol., Issue, Pg. No. Year) | Nature of Paper (Journal/Conference/Book Chapter) | National/ International | Journal Impact No./SCI Index/ISBN No/ISSN No. |
|----|--|---|--|--|----------------------------|--|
| 1 | Swati Sikdar, Sayanti Guha | Recent Trends in Image & Signal Processing in Computer Vision <i>Chapter Name: Advancements of Healthcare Technologies: Paradigm Towards Smart Healthcare Systems</i> | 2020(<i>In press</i>) | Book Chapter (Springer Nature) | International | Doi 10.1007/978- 981-15-2740- 1_9 |
| 2 | K Ganguly, S Sikdar, S Guha, S Bag, H Barman, A Gupta, S Bhati | Development Of A Cost- Effective Gastropathology Diagnostic Technique Considering Electrogastrogra m In Fasting & Post-Prandial Conditions As Indicator | Accepted for publication in the proceedings of International Conference on International Conference on Future Trends and Technological Advancement in Engineering (ICFTTAE2020) | Conference | International | |
| 3 | S Sikdar, K Ganguly, I Dey | PELTIER EFFECT INDUCING CUTANEAL NaCl COATED COEVAL THERMOELEC TRIC MEDICAL DEVICE | Accepted for publication in the proceedings of International Conference on International Conference on Recent Trends and Technologies in Engineering and Science (ICRT2ES-2020) | Conference | International | |
| 4 | S Sikdar, K Ganguly, S | ANALYSIS OF EMG SIGNAL | Accepted for publication in the | Conference | International | |

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|---|---|--|---|---|---------------|---|
| | Barat | OF GASTROCNEMUS MUSCLE COLLATING THE PHYSIOLOGICAL CHANGES TO INTERPRET ITS STRESS CONDITION | proceedings of International Conference on International Conference on Recent Trends and Technologies in Engineering and Science (ICRT2ES-2020) | | | |
| 5 | K Ganguly, S Sikdar, S Guha, H Barman, A Gupta, S Bhati | DESIGN & DEVELOPMENT OF A LOW-COST DIAGNOSTIC TOOL TO DETECT GASTROPATHOLOGY CONSIDERING ELECTROGASTROGRAM | Accepted for publication in the Proceedings of 11th INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET – 2020 | 11 th Inter University Academic Meet | National | https://doi.org/10.36375/prepare_u.a53 |
| 6 | K Ganguly, S Sikdar, | Artificial Blood Vessels & its Controlling Aspects | Accepted | Book Chapter (IOP) | International | |

LIST OF PAPERS PUBLISHED in 2019

| Sl | Author (Including Co-author) | Title of the Paper | Detail of Paper (including Vol., Issue, Pg. No. Year) | Nature of Paper (Journal/Conference/Book Chapter) | National/International | Journal Impact No./SCI Index/ISBN No/ISSN No. |
|----|---|---|---|---|------------------------|---|
| 1 | Palit A., Ganguly K., Mukherjee M | Effects of Optical Irradiation on III-V Avalanche Photo Diodes. | <i>Journal of Physics Through Computation</i> Vol. 2: 26-29. DOI: http://dx.doi.org/10.23977/jptc.2019.21006 . | Journal | International | |
| 2 | Kunal Pal, Heinz-Bernhard Kraatz, Chenzhong | Bioelectronics and Medical Devices-1st Edition From Materials | <i>Page Count:944 2019 (In press)</i> | Book (Elsevier) | International | 9780081024201 |

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|---|--|---|--|-----------------------------------|---------------|---|
| | Li, Anwasha Khasnobish, Sandip Bag,Indranil Banerjee, Ush a Kuruganti | to Devices - Fabrication, Applications and Reliability | | | | |
| 3 | Bag S. | Biomedical Engineering & its Application in Healthcare <i>Chapter Name: Biodegradable Composite Scaffold for Bone Tissue Regeneration</i> | 2019(<i>In press</i>) | Book Chapter (Springer Nature) | International | 97898113370 48 |
| 4 | Sikdar S, Guha S, Ganguly K, Bag S, Lenka S, Barman H | Analysis of Cardiac Synchronous changes for Health Assessment using a Simple, Cost-Effective Arduino Based Plethysmography System | Accepted for publication in the proceedings of International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS 2019) | Conference | International | 978-93-5391- 015-0 |
| 5 | Sikdar S, Guha S, Ganguly K, Bag S, Lenka S, Barman H | A Retrospective Study On The Shifting Model In Clinical Diagnostics Integrating Data Science With Medical Technology | Accepted for publication in the proceedings of International Conference on Non Conventional Energy – Nanotechnology & Nano-materials for Energy & Environment (ICNNEE 2019) | Conference | International | Available at SSRN 3503284, 2020. |
| 6 | Ganguly K., | Application of Biomedical Engineering in Neuroscience <i>Chapter Name: Overview of Internal Physiological System of Human Body</i> | 2019(<i>In press</i>) | Book Chapter (Springer) | International | |
| 7 | Sikdar S, Ganguly K, | Molecular Imaging | Accepted for publication in the | Conference | International | Available at SSRN |

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|----|--|--|--|------------|---------------|----------------------------------|
| | Guha S, Bag S, Barman H | Technology: A promising frontier of Interventional Radiology | proceedings of International Conference on Industry Interactive Innovations in Science, Engineering and Technology (I3SET2019) | | | 3515891, 2020. |
| 8 | Guha S, Sikdar S, Ganguly K, Bag S, Barat S, Banerjee A | Necessitated Multi-Feature Approach To Assess and Analyze Stress among Students Using Cardiac Signal as an Eminent Indicator | Accepted for publication in the proceedings of International Conference on Industry Interactive Innovations in Science, Engineering and Technology (I3SET2019) | Conference | International | Available at SSRN 3517179, 2020. |
| 9 | Sikdar S, Ganguly K, Guha S, Bag S, Swarup S, Bhaumik D, Mukherjee A | Human Brain Imbued Higher Brain Centre Activated Robot | Accepted for publication in the proceedings of International Conference on Industry Interactive Innovations in Science, Engineering and Technology (I3SET2019) | Conference | International | Available at SSRN 3515899, 2020. |
| 10 | Modak D, Palit A, GangulyK, Mukherjee M | Graphene Based Heterojunction Pin Device As Photo-Sensor | Accepted for publication in the proceedings of International Conference on Industry Interactive Innovations in Science, Engineering and Technology (I3SET2019) | Conference | International | |

LIST OF PAPERS PUBLISHED in 2018

| Sl | Author (Including Co-author) | Title of the Paper | Detail of Paper (including Vol., Issue, Pg. No. Year) | Nature of Paper (Journal/Conference/Book Chapter) | National/International | Journal Impact No./SCI Index/ISBN No/ISSN No. |
|----|--|---|--|---|------------------------|---|
| 1 | Bag S | Bioactive Composite Materials for Tissue Replacement | Under Review in <i>Elsevier Publication "Composites in Biomedical Engineering"</i> | Book Chapter | International | Under Review |
| 2 | Guha S, Ganguly K, Sikdar S & Bag S | A hybrid Multi-features and Multi-classification approach based Pre-diagnosis of Seizure by analyzing EEG Signals. | International Conference on Emerging trends in Electronics Devices and The Computational Technique (EDCT 2018) | Conference | International | 9781538614860 |
| 3 | Talukdar P, Nayak S K, Bag S, Ganguly K, Dey A & Pal K | Wavelet Packet Decomposition-Based Analysis of the RR Interval Signal to Understand the Autonomic Nervous System Activity in Smokers. | Published in the proceedings of "International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)", 2018 | Conference | International | |
| 4 | Bag S. | Overview of Surgical Instruments for the Operation Theatre | Accepted for publication in <i>Design and Development of Affordable Healthcare Technologies</i> , Published by IGI-Global, USA. | Book Chapter | International | |
| 5 | Talukdar P, Nayak S K, Ganguly K, Bag S, Dey A & Pal K | Analysis of the Changes in the RR Interval Signals of Smokers (Before | Accepted for publication in <i>Design and Development of Affordable</i> | Book Chapter | International | |

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|---|--|---|---|------------|----------|---------------|
| | | and After Smoking) Using Recurrence Analysis and ANN Classification. | <i>Healthcare Technologies</i> , Published by IGI-Global, USA. | | | |
| 6 | Sikdar S, Parui S, Ganguly K, Guha S & Bag S | An empirical approach towards development of a low cost psycho-physiologic pain detector. | Accepted for publication in the proceedings of <i>National Conference on Frontiers in Modern Physics (NCFMP 2018)</i> | Conference | National | 9780735418004 |

LIST OF PAPERS PUBLISHED in 2017

| Sl | Author (Including Co-author) | Title of the Paper | Detail of Paper (including Vol., Issue, Pg. No. Year) | Nature of Paper (Journal/Conference/Book Chapter) | National/International | Journal Impact No./SCI Index/ISBN No/ISSN No. |
|----|------------------------------|--|---|---|------------------------|---|
| 1 | Ganguly Bhattacharjee K . | Photography, an Important Tool for Qualitative Analysis of Estrogen Rreceptor and Progesterone Receptor Number which have Prognostic Iimportance in Breast Cancer. | 11 th International Conference, IPC2017. PP 94-101. | Conference | International | ISBN (13) 978-81-923360-0-4. |
| 2 | S.Guha, P.Basak, T.Das, | Diabetes Susceptibility detection with age using heart rate variability | 2nd International Conference for Convergence in Technology (I2CT),Pune, April, 2017(IEEE) | Conference | International | |
| 3 | T.Das, S.Guha and P.Basak | Prediction of Inferior Zone Myocardial Infarction using Welchs Power Spectral Density Estimation and | International Journal of Engineering Technology Science and Research | Journal | International | ISSN 2394 3386, Volume 4, Issue 1 |

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|---|---|---|--|--------------|---------------|------------------------------------|
| | | Discrete Cosine Transform | | | | |
| 4 | T.Das, N.Banerjee,S .Guha, P.Basak | Development of Thermistor based low cost high sensitive Respiration Rate Measurement System using Audio Software with Audio Input | 3rd International Conference of Biosignals,Images and Instrumentation(IC BSII 2017),Chennai, March 16-March 18,2017(IEEE) | Conference | International | Electronic ISBN: 978-1-5090-4980-6 |
| 5 | T.Das, S.Guha, A.Ghosh, P.Basak | Early detection of diabetes based on skin impedance spectrogram and heart rate variability noninvasively | 1st International conference on Electronics, Materials Engineering and Nano Technology, April 28-29, 2017(IEEE) | Conference | International | Electronic ISBN: 978-1-5386-1703-8 |
| 6 | T.Das, S.Guha, A.Ghosh, P.Basak | Classification of EEG Signals for prediction of Seizure using Multi-Feature Extraction | 1st International conference on Electronics, Materials Engineering and Nano Technology, April 28-29, 2017(IEEE) | Conference | International | Electronic ISBN: 978-1-5386-1703-8 |
| 7 | S.Dutta,M.Dutta, S.Sikdar,D. Dutta | Reliable real time low-cost cardiac health monitoring system for affordable patient care | 1st International Conference on Advanced Medical Electronics,JISCE Kalyani,Springer,India,Book chapter Name: Lecture notes in Bioengineering | Book chapter | International | ISBN NO:978-81-322-2255-2 |
| 8 | S.Guha, A.Ghosh, P.Basak | Classification of EEG Signals in controls and Epileptic Patients | 18th Joint Annual Conference of Indian Epilepsy Association Indian Epilepsy Society(ECON 2017),Patna. | Conference | International | |
| 9 | | A Study on the Efficacy of Texture , Shape and Intensity of Blashko's Lines | | Conference | International | |

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|----|--------------------------------|--|--|------------|---------------|--|
| | | Detection using Image Processing Techniques | | | | |
| 10 | Talukder P., Ganguly K & Pal K | A Study on the Simulation of Visual Prosthesis for the Restoration of Functional Vision to the Blind | International Conference on Electrical Electronics and Data Communication (ICEEDC 2017). | Conference | International | |

LIST OF PAPERS PUBLISHED in 2016

| Sl | Author (Including Co-author) | Title of the Paper | Detail of Paper (including Vol., Issue, Pg. No. Year) | Nature of Paper (Journal/Conference/Book Chapter) | National/International | Journal Impact No./SCI Index/ISBN No/ISSN No. |
|----|-------------------------------------|--|---|---|------------------------|---|
| 1 | Bag S, Ganguly K & Biswas B K | Structural Characterization of Nanocrystalline Hydroxyapatite produced from Waste Egg-Shell. | <i>Trends in Biomat. & Artf. Org.</i> , vol-30(1), pp 41-45, 2016. | Journal | International | 0971-1198 |
| 2 | Bag S & Biswas B K | Review on Bioactive Ceramic Coating. | <i>International Journal of Pharma and Biosciences</i> , Vol - 7(2), 2016, pp. 117-128. | Journal | International | 0975-6299 |
| 3 | Talukdar P, Bag S & Bhattacharjee S | Design and Development of a Passive Knee Ankle Foot Orthosis. | International Journal of Biomedical Engineering. Vol-2(2), pp 7-12, 2016. | Journal | International | 978-8-1929-9982-1 |
| 4 | Ganguly Bhattacharjee K, Sinha AK | Insulin Induced Down Regulation of the Progesterone Receptor Number in Neutrophils in the Synthesis of Maspin in Breast Cancer | J Cancer Prev Curr Res. DOI: 10.15406/jcpr.2016.04.00136. 4(5) 00136:01-06. | Journal | International | ISSN 2373-6330 |
| 5 | Ganguly Bhattacharjee K, Manna N | Extraction of Fundamental Frequency of Human Voice by Autocorrelation | Innovative Systems Design and Engineering. 7(4):23-28, 2016 | Journal | International | ISSN 2222-1727 (Print) ISSN 2222-2871 (Online). |

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|----|--|---|--|--------------|---------------|---|
| | | Technique. | | | | |
| 6 | Das S. and Sikdar S | A Review on the Non-conventional Energy Sources in Indian Perspective, - | International Research Journal of Engineering and Technology, Vol. 3(2), pp. 403-409, 2016 | Journal | International | (p ISSN No: 2395-0056, e-ISSN: 2395-0072; Impact Factor -4.45). |
| 7 | S Patra, P Basak, DN Tibarewala | Synthesis of gelatin nano/submicron particles by binary nonsolvent aided coacervation (BNAC) method. | Materials Science and Engineering: C 59, 310-318 | Journal | International | 0928-4931 |
| 8 | A Khasnobish, A Konar, DN Tibarewala, AK Nagar: | Bypassing the Natural Visual-Motor Pathway to Execute Complex Movement Related Tasks Using Interval Type-2 Fuzzy Sets | IEEE EXPLORE | Journal | International | |
| 9 | A Ray, SK Nayak, B Champaty, DN Tibarewala, K Pal | Non-Linear Analysis of Heart Rate Variability and ECG Signal Features of Swimmers from NIT-Rourkela: A Case Study. | Computational Tools and Techniques for Biomedical Signal Processing, 56-75 | Book Chapter | International | 978-1-5225-0660-7 |
| 10 | A Khasnobish, M Pal, DN Tibarewala, A Konar, K Pal | Texture-and deformability-based surface recognition by tactile image analysis. | Medical & biological engineering & computing, 1-15. | Journal | International | 1741-0444 |
| 11 | S Bhaduri, A Khasnobish, R Bose, DN Tibarewala | Classification of lower limb motor imagery using K Nearest Neighbor and Naïve-Bayesian classifier. | Recent Advances in Information Technology (RAIT), 2016 | Conference | International | 978-1-4799-8579-1 |
| 12 | S Paul, A Banerjee, R Ghoshal, DN Tibarewala | Development of ultrasonic tachography system for gait analysis. | International Journal of Biomedical Engineering and Technology 20 (1), 66-95. | Journal | International | 1752-6418 (Print) 1752-6426 (Online) |
| 13 | B Champaty, DN Tibarewala, B Mohapatra, K Pal | Development of EOG and EMG-Based Multimodal Assistive Systems. | Medical Imaging in Clinical Applications, 285-310. | Book Chapter | International | 978-3-3193-3791-3 |
| 14 | A Khasnobish, M Pal, D Sardar, | Vibrotactile feedback for conveying object | Cognitive Neurodynamics, | Journal | International | 1871-4080 (Print) |

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|----|---------------------------------------|---|---|-----------------------|---------------|--------------------|
| | DN Tibarewala, A Konar: | shape information as perceived by artificial sensing of robotic arm.. | 1-12 | | | 1871-4099 (Online) |
| 15 | A Rakshit, A Banerjee, DN Tibarewala: | Electro-oculogram based digit recognition to design assitive communication system for speech disabled patients. | Microelectronics, Computing and Communications (MicroCom), 2016 | Conference | International | |
| 16 | M Dutta et al | A Software Based Approach to Acquisition and Analysis of BioSignals using CSAP | IEEE XPlore Digital Library | Conference | International | 978-1-5090-1666-2 |
| 17 | M Dutta et al | A Study on Data Acquisition and Analysis in Real Time for Prediction of Cardiovascular Diseases in Real Time using indigenous Low Cost CHMS | Lecture Notes in Networks and Systems | Springer Book Chapter | International | 978-981-10-3952-2 |

LIST OF PAPERS PUBLISHED in 2015

| Sl | Author (Including Co-author) | Title of the Paper | Detail of Paper (including Vol., Issue, Pg. No. Year) | Nature of Paper (Journal/Conference/Book Chapter) | National/International | Journal Impact No./SCI Index/ISBN No/ISSN No. |
|----|---|--|---|---|------------------------|---|
| 1 | Ganguly Bhattacharjee K, Manna N, Sheikh FT | A Statistical Approach to Study Pitch Variation for Prediction of Voice Disorder. | <i>International Journal of Engineering and Advanced Technology Studies</i> .3(3):32-42, 2015 | Journal | International | ISSN (Print) 2053-5783. ISSN (Online) 2053-5791 |
| 2 | Ganguly Bhattacharjee K, Manna N, Bhattacharya S, Mallick B | ECG Signal Acquisition System for Remote Healthcare Service with Telemetric Capability | <i>Innovative System Design and Engineering</i> . 6(5):10-17, 2015 | Journal | International | ISSN (Print) 2222-1727. ISSN (Online) 2222-2871. |

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|---|---|--|---|--------------|---------------|--|
| 3 | Dey A, Pal A, Mukherjee A and Ganguly Bhattacharjee K | An Approach for Identification Using Knuckle and Fingerprint Biometrics Employing Wavelet Based Image Fusion and SIFT Feature Detection. | <i>Lecture Notes in Bioengineering.</i> PP 149-159, 2015 | Book Chapter | International | ISBN 978-81-322-2255-2. ISBN 978-81-322-2255-9(For eBook) |
| 4 | Sur M, Biswas I, and Das S | A Low-Cost and Portable Model of Emotional Stress Indicator for Health Care System. | Proceedings of 6th All India Inter Engineering College Academic Meet – 2015 & Science & Technology Exhibition for a Sustainable Society | Conference | National | |
| 5 | Kar S, Mukherjee A, and Das S | A Low-cost and noninvasive model of apnea detection for patient care Monitoring. | Proceedings of 6th All India Inter Engineering College Academic Meet – 2015 & Science & Technology Exhibition for a Sustainable Society | Conference | National | |
| 6 | M Dutta et. Al. | Reliable, Real-Time, Low Cost Cardiac Health Monitoring System for affordable Patient Care | Lecture Notes in BioEngineering', Springer book Series, 2015. | Book chapter | International | ISBN 978-81-322-2255-2. ISBN 978-81-322-2255-9(For eBook) |
| 7 | S Bhattacharyya, D Basu, A Konar, DN Tibarewala | Interval type-2 fuzzy logic based multiclass ANFIS algorithm for real-time EEG based movement control of a robot arm. | Robotics and Autonomous Systems 68, 104-115, 2015 | Journal | International | 0921-8890 |
| 8 | S Bhattacharyya, M Pal, A Konar, DN Tibarewala | An interval type-2 fuzzy approach for real-time EEG-based control of wrist and finger movement. | Biomedical Signal Processing and Control 21, 90-98 | Journal | International | 1746-8094 |
| 9 | S Dey, R Bhimani, A Mazumdar, P Ghosh, DN Tibarewala | Multifractal Detrended Fluctuation Analysis used to analyse EEG signals originating from different lobes of Brain. | Recent Trends in Information Systems (ReTIS), 2015. | Conference | International | 978-1-4799-8350-6 |

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|----|--|---|---|------------|---------------|--------------------|
| 10 | P Ghosh, A Mazumder, S Bhattacharyya, DN Tibarewala, M Hayashibe | Functional connectivity analysis of motor imagery EEG signal for brain-computer interfacing application. | 7th International IEEE/EMBS Conference on Neural Engineering (NER), 210-213. | Conference | International | 978-1-4673-6387-7. |
| 11 | A Mazumder, A Rakshit, DN Tibarewala | A back-propagation through time based recurrent neural network approach for classification of cognitive EEG states. | Engineering and Technology (ICETECH), 2015 IEEE International Conference on, 1-5. | Conference | International | 978-1-4799-1855-3 |
| 12 | Anwesha Banerjee, Monalisa Pal, DN Tibarewala, Amit Konar | Electrooculogram based blink detection to limit the risk of eye dystonia. | Advances in Pattern Recognition (ICAPR), 2015, 1-6. | Conference | International | 978-1-4799-7459-7 |

LIST OF PAPERS PUBLISHED in 2014

| Sl | Author (Including Co-author) | Title of the Paper | Detail of Paper (including Vol., Issue, Pg. No. Year) | Nature of Paper (Journal/Conference/Book Chapter) | National/International | Journal Impact No./SCI Index/ISBN No./ISSN No. |
|----|---|---|--|---|------------------------|--|
| 1 | Bag S & Pal S | Design and Fabrication of Polymer-Ceramic Composite Hip Prosthesis. | <i>International Journal of Pharma and Biosciences</i> , Vol - 5(3), 2014, pp. 132-137. | Journal | International | 0975-6299 |
| 2. | Biswas B K, Pal S & Bag S (2014):. | Clinical Efficacy of an Indigenously Developed Tissue Expander. | <i>International Journal of Engineering Science & Research Technology</i> , Vol - 3(4), 2014, pp. 4080-4084. | Journal | International | 2277-9655 |
| 3 | Ganguly Bhattacharjee K, Bhattacharyya M, Halder UC, Jana P, Sinha AK | The role of progesterone receptor status on maspin synthesis via nitric oxide production in neutrophils in human breast cancer. | <i>Breast Cancer</i> .. 21:605-613, 2014 | Journal | International | 1340-6868 |
| 4 | Ganguly Bhattacharjee K | Significance of Photography in Breast Cancer. | 1 ^{0th} International Conference (IPC2014). 10: PP | Conference | International | 978-0-7918-4613-1 |

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|----|--|--|---|------------|---------------|----------------------------------|
| | | | 22-28. | | | |
| 5 | Das S. | Simple and cost-effective heart rate meter using PIC microcontroller | International Journal of Engineering Sciences & Research, Vol. 3(4), pp. 3036-3042, 2014. | Journal | International | 2277-9655 Impact Factor-3.785 |
| 6 | Das S and Tibarewala D N. | Stance stability analysis of below fifty years age post-stroke hemiplegic patients by stabilometric method, | Reason- A Technical Journal, Vol. 13, pp. 9-20, 2014. | Journal | National | 2277-1654 |
| 7 | S Bhattacharyya, A Sengupta, T Chakraborti, A Konar, DN Tibarewala | Automatic feature selection of motor imagery EEG signals using differential evolution and learning automata. | Medical & biological engineering & computing 52 (2), 131-139. | Journal | International | 1741-0444 |
| 8 | S Bhattacharyya, A Konar, DN Tibarewala | Motor imagery, P300 and error-related EEG-based robot arm movement control for rehabilitation purpose. | Medical & biological engineering & computing 52 (12), 1007-1017. | Journal | International | 1741-0444 |
| 9 | S Bhattacharyya, A Konar, DN Tibarewala | A differential evolution based energy trajectory planner for artificial limb control using motor imagery EEG signal. | Biomedical Signal Processing and Control 11, 107-113. | Journal | International | 1746-8094 |
| 10 | A Khasnobish, G Singh, A Jati, A Konar, DN Tibarewala | Object-shape recognition and 3D reconstruction from tactile sensor images | Medical & biological engineering & computing 52 (4), 353-362 | Journal | International | 1741-0444 |
| 11 | M Pal, A Khasnobish, A Konar, DN Tibarewala, R Janarthanan | Performance enhancement of object shape classification by coupling tactile sensing with EEG | Electronics, Communication and Instrumentation (ICECI), 2014 | Conference | International | 978-1-4799-5345-5 |
| 12 | S Datta, A Khasnobish, A Konar, DN Tibarewala, AK Nagar | EEG based artificial learning of motor coordination for visually inspired task using neural networks. | International Joint Conference on Neural Networks (IJCNN), 3371-3378. 2014 | Conference | International | |

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|----|---|--|---|------------|---------------|--|
| 13 | B Champaty, BK Biswal, K Pal, DN Tibarewala | Random forests based sub-vocal electromyogram signal acquisition and classification for rehabilitative applications. | Automation, Control, Energy and Systems (ACES), 2014 | Conference | International | |
| 14 | A Banerjee, S Datta, A Konar, DN Tibarewala, J Ramadoss | Cognitive activity recognition based on electrooculogram analysis. | Advanced Computing, Networking and Informatics-Volume 1, 637-644. | Conference | International | |

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|----|--|---|--|---|------------------------|--|
| 1 | Biswas B K, Bag S & Pal S | Biomechanical analysis of normal and implanted tooth using biting force measurement. | International Journal of Engineering and Applied Science, Vol - 4 (2), pp. 17-23, 2013. | Journal | International | 2305-8269 |
| 2 | Bag S, Biswas B K & Pal S | Modification of Root of Dental Implant Surface using Various Surface Treatment for Enhancement of Fixation in the Jaw Bone. | <i>Indian Journal of Biomechanics</i> , Vol - 4 (1), pp. 70-76, 2013. | Journal | National | 0974-0783 |
| 3 | Bag S, Pal S, Biswas B K & Chakraborty S N | Tissue Attachment on Hydroxiapatite Coated Polymer-Ceramic Composite Implant. | <i>International Journal of Pharma and Biosciences</i> , Vol - 4(3), pp. 816-822, 2013. | Journal | International | 0975-6299 |
| 4 | Ganguly Bhattacharjee K and Nilotpal Manna | Temperature Monitoring System – An Embedded Approach | International Conference on Computation and Communication Advancement (IC3A-2013), pp. 400-403, 2013 | Conference | International | ISBN (13) 978-1-25-906393-0. |
| 5 | Ganguly Bhattacharjee K and Sinha AK | Insulin Induced Down Regulation of the Estrogen | Indian Science Congress, Centenary Session. PP 399- 400. | Conference | National | |

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|----|---|--|--|------------|---------------|--|
| | | Receptor Number in Neutrophils in the Synthesis of Maspin in Breast Cancer. | | | | |
| 6 | M Dutta et al. | Design of A Low Cost Physiological Parameter Monitoring System in Real Time | Proceedings for the AICTE Sponsored National Conference on Control, Communication & Device Electronics N3CD 2013 | Conference | National | |
| 7 | Das S | Development of a respiration rate meter-a low-cost design approach, | Health Informatics-An International Journal, pp. 9-16, Vol. 2(2), 2013. | Journal | International | 2319-2046 (Online); 2319-3190 (Print)] |
| 8 | Das S | Characterization of postural steadiness of post-stroke hemiplegic patients by force platform data analysis | VIVECHAN International Journal of Research, pp. 108-117, Vol. 4, 2013. | Journal | International | 0976-8211 |
| 9 | Das S | Static postural steadiness analysis of post-stroke hemiplegic patients using force plate | Indian Journal of Biomechanics, pp. 39-46, Vol. 4(1), Issue 1, 2013. | Journal | National | 0974-0783 |
| 10 | Roy K, Ghosh G and Das S | The development of a low-cost galvanic skin response meter | Academic Meet 2013, organized by FOSET | Conference | National | |
| 11 | A Banerjee, S Datta, M Pal, A Konar, DN Tibarewala, R Janarthanan | Classifying electrooculogram to detect directional eye movements. | Procedia Technology 10, 67-75. | Journal | International | 2212-0173 |
| 12 | B Champaty, S Bhandari, K Pal, DN Tibarewala | Artificial Intelligence Based Classification of Menstrual Phases in Amenorrheic Young Females from ECG Signals | India Conference (INDICON), 2013 Annual IEEE, 1-6 | Conference | International | |
| 13 | S Satapathy, B Champaty, K Pal, SS Ray, DN Tibarewala | Development of a Low Cost Device to Detect Blood Backflow in Catheters. | India Conference (INDICON), Annual IEEE 2013, 1-4. | Conference | International | |
| 14 | S Bhattacharyya, P Rakshit, A Konar, DN | Feature selection of motor imagery EEG signals using firefly temporal | International Conference on Swarm, Evolutionary, and | Conference | International | |

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|--|-------------------------------|--|--------------------------------|--|--|--|
| | Tibarewala, R Janarathanan | difference Q- Learning and support vector machine | Memetic Computing, 534-545. | | | |
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| Sl | Author (Including Co- author) | Title of the Paper | Detail of Paper (including Vol., Issue, Pg. No. Year) | Nature of Paper (Journal/Confere nce/Book Chapter) | National/ International | Journal Impact No./SCI Index/ISBN No/ISSN No. |
|----|---|---|--|---|----------------------------|--|
| 1 | Ganguly Bhattacharjee K, Bhattacharyya M, Halder UC, Jana P, Sinha AK | The role of neutrophil estrogen receptor status on maspin synthesis via nitric oxide production in human breast cancer. | J Breast Cancer. 15(2):181-8, 2012 | Journal | International | 1738-6756 (Print) 2092-9900 (Online) |
| 2 | Ganguly Bhattacharjee K, Bhattacharyya M, Halder UC, Jana P, Sinha AK | The "Cross Talk" between the Receptors of Insulin, Estrogen and Progesterone in Neutrophils in the Synthesis of Maspin through Nitric Oxide in Breast Cancer | Int J Biomed Sci. 8(2): 129-139, 2012 | Journal | International | 1555-2810 (Print) 1550-9702 (Online) |
| 3 | Ganguly Bhattacharjee K, Bhattacharyya M, Halder UC, Jana P, Sinha AK | The role of progesterone receptor status on maspin synthesis via nitric oxide production in neutrophils in human breast cancer. | Breast Cancer. DOI 10.1007/s12282-012- 0422-6 | Journal | International | 1340-6868. |
| 4 | M Dutta & S Dutta | Real Time Monitoring of Physiological Signals through Smart Mobile Devices for Continuous Patient-care | Proceedings of ICCM 2012, Gold Coast Australia | Conference | International | |
| 5 | M Dutta & S Dutta | Design and development of a Low Cost Hearing aid for Aural rehabilitation | Proceedings for the National Conference on Paradigm Shift in Education Technology Content Management 2nd - 3rd March 2012, | Conference | National | |

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|----|--|--|--|------------|---------------|-------------------|
| | | | Techno India College Kolkata. | | | |
| 6 | M Dutta & S Dutta | Analysis of Myoelectric Signals for below Elbow Amputation for the development of a Prosthetic Arm | Journal of Chemical Biological and Physical Sciences Nov.2011-Jan.2012. Vol.2.No.1, 350-358 | Journal | International | 2249-1929 |
| 7 | Bhaumik AJ, Banik P, Saha A, Ghosh D and Das S. | The design of a microcontroller based low-cost heart rate counter for health care systems | Proceedings of Academic Meet 2012, , organized by Forum of Scientists, Engineers and Technologists March 30-31, 2012 | Conference | National | |
| 8 | Dutta S, Kundu RR and Souvik Das | The design of a low-cost respiration rate meter based on infrared sensing | Proceedings of Academic Meet 2012, | Conference | National | |
| 9 | Burman S, Kundu S and Das S | The design of a low-cost emotional stress meter | Proceedings of Academic Meet 2012, | Conference | National | |
| 10 | A Banerjee, A Konar, DN Tibarewala, R Janarthanan | Detecting eye movement direction from stimulated Electro-oculogram by intelligent algorithms. | Proceedings of Computing Communication & Networking Technologies (ICCCNT), 2012. | Conference | International | 978-1-4799-2697-8 |
| 11 | S Ghosal, R Darbar, B Neogi, A Das, DN Tibarewala | Application of swarm intelligence computation techniques in pid controller tuning: A review. | Proceedings of the International Conference on Information Systems Design. 2012. | Conference | International | 978-3-6422-7442-8 |
| 12 | G Singh, A Khasnobish, A Jati, S Bhattacharyya, A Konar, DN Tibarewala | Object-shape classification and reconstruction from tactile images using image gradient. | Emerging Applications of Information Technology (EAIT), 2012 | Conference | International | 978-1-4673-2647-6 |
| 13 | R Roy, A Konar, DN Tibarewala | EEG driven artificial limb control using state feedback PI controller. | Electrical, Electronics and Computer Science (SCEECS), 2012 | Conference | International | |