

Book Chapters:

- **Sikdar S, Guha S:** Recent Trends in Image & Signal Processing in Computer Vision *Chapter Name: Advancements of Healthcare Technologies: Paradigm Towards Smart Healthcare Systems*. Published by Springer Nature
- **Ganguly K:** Application of Biomedical Engineering in Neuroscience. *Chapter Name: Overview of Internal Physiological System of Human Body*. Published by Springer Nature.
- **Bag S:** Biomedical Engineering & its Application in Healthcare *Chapter Name: Biodegradable Composite Scaffold for Bone Tissue Regeneration*, Published by Springer Nature.
- **Bag S:** Overview of Surgical Instruments for the Operation Theatre. Accepted for publication in *Design and Development of Affordable Healthcare Technologies*, Published by IGI-Global, USA.
- **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 and After Smoking) Using Recurrence Analysis and ANN Classification. Accepted for publication in *Design and Development of Affordable Healthcare Technologies*, Published by IGI-Global, USA.

Journal/Conference Papers:

- **K Ganguly, S Sikdar, S Guha, H Barman, A Gupta, S Bhati (2020):** Design & Development Of A Low-Cost Diagnostic Tool To Detect Gastropathology Considering Electrogastragram. *11th INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET – 2020* (https://doi.org/10.36375/prepare_u.a53)
- **S Sikdar, K Ganguly, I Dey (2020):** Peltier Effect Inducing Cutaneous Nacl Coated Coeval Thermoelectric Medical Device. *International Conference on Recent Trends and Technologies in Engineering and Science-2020 (ICRT2ES-2020)*
- **S Sikdar, K Ganguly, S Barat (2020):** Analysis of EMG Signal of Gastrocnemius Muscle Collating The Physiological Changes To Interpret Its Stress Condition. *International Conference on Recent Trends and Technologies in Engineering and Science-2020 (ICRT2ES-2020)*
- **K Ganguly, S Sikdar, S Guha, S Bag, H Barman, A Gupta, S Bhati (2020):** Development of a Cost-Effective Gastro pathology Diagnostic Technique Considering Electrogastragram in Fasting & Post-Prandial Conditions as Indicator. *International Conference on Future Trends and Technological Advancement in Engineering-2020(ICFTTAE 2020)*
- **S Sikdar, K Ganguly, S Guha, S Bag, S Sonar, D Bhaumik & A Mukherjee (2020):** Human Brain Imbued Higher Brain Centre Activated Robot. *2nd edition of International Conference on Industry Interactive Innovations in Science, Engineering and Technology (I3SET2K19)*. Available at SSRN 3515899, 2020 <http://dx.doi.org/10.2139/ssrn.3515899>

- **S Guha, S Sikdar, K Ganguly, S Bag, S Barat & A Banerjee (2020):** Necessitated Multi-Feature Approach to Assess and Analyze Stress Among Students Using Cardiac Signal as an Eminent Indicator. *2nd edition of International Conference on Industry Interactive Innovations in Science, Engineering and Technology (I3SET2K19)*. Available at SSRN 3517179, 2020. <http://dx.doi.org/10.2139/ssrn.3517179>
- **S Sikdar, K Ganguly, S Guha, S Bag & H Barman (2020):** Molecular Imaging Technology: A Promising Frontier of Interventional Radiology. *2nd edition of International Conference on Industry Interactive Innovations in Science, Engineering and Technology (I3SET2K19)*. Available at SSRN 3515891, 2020. <http://dx.doi.org/10.2139/ssrn.3515891>
- **D Modak, A Palit, K Ganguly (2020):** Graphene Based Heterojunction Pin Device As Photo-Sensor. *2nd edition of International Conference on Industry Interactive Innovations in Science, Engineering and Technology (I3SET2K19)*..
- **Sikdar S, Guha S, Ganguly K, Bag S, Lenka S, Barman H (2019):** A Retrospective Study On The Shifting Model In Clinical Diagnostics Integrating Data Science With Medical Technology. *International Conference on Non-Conventional Energy – Nanotechnology & Nano-materials for Energy & Environment (ICNNEE 2019)*. Available at SSRN 3503284, 2020. <http://dx.doi.org/10.2139/ssrn.3503284>
- **Sikdar S, Guha S, Ganguly K, Bag S, Lenka S, Barman H (2019):** Analysis of Cardiac Synchronous changes for Health Assessment using a Simple, Cost-Effective Arduino Based Plethysmography System. *International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS 2019)* ISBN-978-93-5391-015-0
- **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)* (Accepted for Oral Presentation).
- **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.
- **Sikdar S, Parui S, Guha S, Ganguly K, Bag S:** "An empirical approach towards development of a low cost psycho-physiologic pain detector". Published in the proceedings of “National Conference on Frontiers in Modern Physics (NCFMP)”, 2018.
- **Ganguly Bhattacharjee K. (2017):** Photography, an Important Tool for Qualitative Analysis of Estrogen Receptor and Progesterone Receptor Number which have Prognostic Importance in Breast Cancer^{11th} International Conference, IPC2017. PP 94-101.
- **P. Talukder, K Ganguly, K Pal:** A Study on the Simulation of Visual Prosthesis for the Restoration of Functional Vision to the Blind in in the International Conference on Electrical Electronics and Data Communication (ICEEDC 2017).

- **S.Guha**, P.Basak, T.Das: Diabetes Susceptibility detection with age using heart rate variability in 2nd International Conference for Convergence in Technology (I2CT),Pune,April,2017(IEEE).
- T.Das, **S.Guha** and P.Basak: Prediction of Inferior Zone Myocardial Infarction using Welch's Power Spectral Density Estimation and Discrete Cosine Transform in International Journal of Engineering Science and Research.
- 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 in 3rd International Conference of Biosignals,Images and Instrumentation(ICBSII 2017),Chennai,March 16-March 18,2017(IEEE).
- T.Das, **S.Guha**, A.Ghosh, P.Basak: Early detection of diabetes based on skin impedance spectrogram and heart rate variability noninvasively in 1st International conference on Electronics, Materials Engineering and Nano Technology, April 28-29, 2017(IEEE).
- T.Das, **S.Guha**, A.Ghosh, P.Basak: Classification of EEG Signals for prediction of Seizure using Multi-Feature Extraction in 1st International conference on Electronics, Materials Engineering and Nano Technology, April 28-29, 2017(IEEE).
- **S.Guha**, A.Ghosh, P.Basak: Classification of EEG Signals in controls and Epileptic Patients in 18th Joint Annual Conference of Indian Epilepsy Association Indian Epilepsy Society (ECON 2017),Patna.
- **Bag S, Ganguly K & Biswas B K** (2016):Structural Characterization of NanoCrystalline Hydroxyapatite produced from Waste Egg-Shell.
- **Bag S & Biswas B K** (2016): Review on Bioactive Ceramic Coating. International Journal of Pharma and Biosciences, Vol - 7(2), 2016, pp. 117-128.
- Talukdar P, **Bag S & Bhattacharjee S** (2016): Design and Development of a Passive Knee Ankle Foot Orthosis. International Journal of Biomedical Engineering. Vol-2(2), pp 7-12, 2016.
- **Ganguly Bhattacharjee K**, Sinha AK (2016). 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/jcpcr.2016.04.00136. 4(5) 00136:01-06.
- **Ganguly Bhattacharjee K**, Manna N (2016). Extraction of Fundamental Frequency of Human Voice by Autocorrelation Technique. Innovative Systems Design and Engineering. ISSN 2222-1727 (Print) ISSN 2222-2871 (Online).7(4):23-28.
- **Das S.** and **Sikdar S.** A Review on the Non-conventional Energy Sources in Indian Perspective, International Research Journal of Engineering and Technology, pp. 403-409, Vol. 3(2), 2016 (p-ISSN No: 2395-0056, e-ISSN: 2395-0072; Impact Factor -4.45)
- **M Dutta** et al; A Software Based Approach to Acquisition and Analysis of BioSignals using CSAP. IEEE Xplore Digital Library

- **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
- 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.
- 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*
- 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.
- 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
- 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.
- 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
- B Champaty, **DN Tibarewala**, B Mohapatra, K Pal; Development of EOG and EMG-Based Multimodal Assistive Systems. *Medical Imaging in Clinical Applications*, 285-310.
- A Khasnobish, M Pal, D Sardar, **DN Tibarewala**, A Konar: Vibrotactile feedback for conveying object shape information as perceived by artificial sensing of robotic arm. *Cognitive Neurodynamics*, 1-12.
- A Rakshit, A Banerjee, **DN Tibarewala**: Electro-oculogram based digit recognition to design assistive communication system for speech disabled patients. *Microelectronics, Computing and Communications (MicroCom)*, 2016.
- **Ganguly Bhattacharjee K**, Manna N, Sheikh FT (2015). A Statistical Approach to Study Pitch Variation for Prediction of Voice Disorder. *International Journal of Engineering and Advanced Technology Studies*. ISSN (Print) 2053-5783. ISSN (Online) 2053-5791.3(3):32-42.
- **Ganguly Bhattacharjee K**, Manna N, Bhattacharya S, Mallick B (2015). ECG Signal Acquisition System for Remote Healthcare Service with Telemetric Capability. *Innovative System Design and Engineering*. ISSN (Print) 2222-1727. ISSN (Online) 2222-2871.6(5):10-17
- Dey A, Pal A, Mukherjee A and **Ganguly Bhattacharjee K** (2015). An Approach for Identification Using Knuckle and Fingerprint Biometrics Employing Wavelet Based Image Fusion and SIFT Feature Detection. *1st International Conference on Advancements of Medical Electronics (ICAME 2015)*. ISBN 978-81-322-2255-2. ISBN 978-81-322-2256-9 PP149-159.
- **Dutta M** et al (2015) Reliable, Real-Time, Low Cost Cardiac Health Monitoring System for affordable Patient Care. 'Lecture Notes in BioEngineering', Springer book Series, 2015.

- 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.
- 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.
- 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
- 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.
- 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.
- 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.
- 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.
- **Anwasha 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
- **Bag S** & Pal S (2014): Design and Fabrication of Polymer-Ceramic Composite Hip Prosthesis. *International Journal of Pharma and Biosciences*, Vol - 5(3), pp. 132-137, 2014. [ISSN: 0965-6299, Impact Factor – 2.958]
- Biswas B K, Pal S & **Bag S** (2014): Clinical Efficacy of an Indigenously Developed Tissue Expander. International Journal of Engineering Science & Research Technology. Vol -3(4), pp. 4080-4084, 2014. [ISSN : 2277-9655].
- **Ganguly Bhattacharjee K**, Bhattacharyya M, Halder UC, Jana P, Sinha AK (2014). The role of progesterone receptor status on maspin synthesis via nitric oxide production in neutrophils in human breast cancer. *Breast Cancer*. ISSN 1340-6868. 21:605-613
- **Ganguly Bhattacharjee K** (2014). Significance of Photography in Breast Cancer. *10th International Conference IPC2014*. 10: PP 22-28.

- **Das S.** Simple and cost-effective heart rate meter using PIC microcontroller, *International Journal of Engineering Sciences & Research*, pp. 3036-3042, Vol. 3(4), 2014. (ISSN No. 2277-9655; Impact Factor-1.852)
- **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.
- 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.
- 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.
- 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.
- 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
- 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
- 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
- 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
- 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
- **Dutta M** (2013): 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 , 25th-26th July 2013, **JIS College of Engineering Kalyani, Received Best Paper Award in Device Electronics Track.**
- Biswas B K, **Bag S** & Pal S (2013): Biomechanical Analysis of Normal and Implanted Tooth using Biting Force Measurement. *International Journal of Engineering and Applied Sciences*. Vol – 4(2), pp. 17-23, 2013. [ISSN: 2305-8269].
- **Bag S**, Pal S, Biswas B K & Chakraborty, S. N (2013): Tissue Attachment on Hydroxyapatite Coated Polymer-Ceramic Composite Implant. *International Journal of Pharma and Biosciences*, Vol - 4(3), pp. 816-822, 2013. [ISSN: 0965-6299, Impact Factor – 2.958];

- Biswas B K, **Bag S** & Pal S (2013): *Modification of Root of Dental Implant Surface using. Various Surface Treatments for Enhancement of. Fixation in the Jaw Bone.* Indian Journal of Biomechanics. Vol- 4 (1), pp. 70-76, 2013.[ISSN : 0974-0783].
- **Ganguly Bhattacharjee K** and Nilotpal Manna (2013). Temperature Monitoring System – An Embedded Approach. International Conference on Computation and Communication Advancement (IC3A- 2013). ISBN (13)978-1-25-906393-0. PP 400-403.
- **Ganguly Bhattacharjee K** and Sinha AK (2013). Insulin Induced Down Regulation of the Estrogen Receptor Number in Neutrophils in the Synthesis of Maspin in Breast Cancer. Indian Science Congress, Centenary Session. PP 399- 400. (Abstract).
- **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. [ISSN No. 2319-2046 (Online); 2319-3190 (Print)]
- **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. (ISSN No: 0976-8211)
- **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.
- Roy K, Ghosh G and **Das S**, The development of a low-cost galvanic skin response meter, Academic Meet 2013, organised by Forum of Scientists, Engineers and Technologists, held at Modern Institute of Engineering and Technology, Bandel, Hoogly (West Bengal), March 22-23, 2013
- A Banerjee, S Datta, M Pal, A Konar, **DN Tibarewala**, R Janarthanan: Classifying electrooculogram to detect directional eye movements. Procedia Technology 10, 67-75
- B Champaty, S Bhandari, K Pal, **DN Tibarewala**: Artificial Intelligence Based Classification of Menstrual Phases in Amenorrhic Young Females from ECG Signals, India Conference (INDICON), 2013 Annual IEEE, 1-6
- 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.
- S Bhattacharyya, P Rakshit, A Konar, **DN Tibarewala**, R Janarthanan: Feature selection of motor imagery EEG signals using firefly temporal difference Q-Learning and support vector machine, International Conference on Swarm, Evolutionary, and Memetic Computing, 534-545.
- **Ganguly Bhattacharjee K**, Bhattacharyya M, Halder UC, Jana P, Sinha AK (2012). 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.

- **Ganguly Bhattacharjee K**, Bhattacharyya M, Halder UC, Jana P, Sinha AK (2012). 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.
- **Ganguly Bhattacharjee K**, Bhattacharyya M, Halder UC, Jana P, Sinha AK (2012). The role of progesterone receptor status on maspin synthesis via nitric oxide production in neutrophils in human breast cancer. *Breast Cancer.* ISSN 1340-6868. DOI 10.1007/s12282-012-0422-6.
- **M Dutta** & S Dutta “Design and Development of a Low Cost Hearing assist Device for Aural Rehabilitation”, Proceedings for the AICTE Sponsored National Conference on Paradigm Shift in Education Technology and Content Management 2nd-3rd March 2012.
- **M Dutta** & D Dutta, “Real Time Monitoring of Physiological Signals through Smart Mobile Devices for Continuous Patient-care”, ICCM-2012, Gold Coast Australia.
- 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; *Academic Meet 2012*, , organised by Forum of Scientists, Engineers and Technologists held at Calcutta Institute of Engineering and Management, Kolkata (West Bengal), March 30-31, 2012.
- Dutta S, Kundu RR and **Das S**. The design of a low-cost respiration rate meter based on infrared sensing; *Academic Meet 2012*, organised by Forum of Scientists, Engineers and Technologists, held at Calcutta Institute of Engineering and Management, Kolkata (West Bengal), March 30-31, 2012.
- Burman S, Kundu S and **Das S**. The design of a low-cost emotional stress meter; *Academic Meet 2012*, organised by Forum of Scientists, Engineers and Technologists, held at Calcutta Institute of Engineering and Management, Kolkata (West Bengal), March 30-31, 2012
- **Arindam Bit** & Himadri Chattopadhyay: Hemodynamics of Stenosed Artery considering different Rheological models. 27th – 28th December 2012.
- 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.
- 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.
- 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

- R Roy, A Konar, **DN Tibarewala**: EEG driven artificial limb control using state feedback PI controller. Electrical, Electronics and Computer Science (SCEECs), 2012
- **Bag S & Pal S** (2011): Bioactive coating over polymer-ceramic composite – an ideal synthetic bone substitute. International Journal of Pharma and Biosciences, Vol - 2(4), 2011, pp. 242-249.
- **Bag S & Pal S** (2011): Characterization of bioactive coating over polymer-ceramic composite under cyclic loading. International Journal of Biomedical Engineering and Consumer Health Informatics, Vol.-3(2), 2011, pp. 73-76.
- Mandal D, **Ganguly Bhattacharjee K**, Manna N. (2011). Cough Monitoring System. BERA 2011. PP 23-27.
- Ganguly S, **Ganguly Bhattacharjee K**, Manna N, Bhattacharyya P (2011). Low Cost Temperature Monitoring System. BERA 2011. PP 46-51.
- **Ganguly Bhattacharjee K**, Halder UC, Sinha AK (2011). The roles of estrogen and progesterone receptors in the synthesis of maspin, an anti breast cancer protein, through the production of nitric oxide in human breast cancer. ICMSP100. PP10.118. (Abstract).
- Sharma SK, Bhowmick S and **Das S**. Stabilometric analysis of postural steadiness of post-stroke hemiplegic patients; Academic Meet 2011, organised by Forum of Scientists, Engineers and Technologists, held at West Bengal University of Technology, Kolkata (West Bengal), March 12-13, 2011.
- **Das S** and Pal S. The design of a low-cost galvanic skin response meter, Golden Research Thoughts, pp. 63-66, Vol.1(2), 2011.(ISSN No: 2231-5063, Impact Factor-2.2052).
- **Das S** and Tibarewala D.N. Stabilometric postural steadiness analysis of post-stroke hemiplegic patients, International Journal of Engineering Science and Technology, pp. 4626 – 4637, Vol. 3(6), 2011.(ISSN No: 0975-5462).
- **Das S** and Roychowdhury R. A cost-effective noninvasive model for apnea detection; 19th IEEE Workshop on Nonlinear Dynamics in Electronic Systems, organised by Indian Institute of Chemical Biology and Saha Institute of Nuclear Physics, Kolkata (West Bengal), March 8-11, 2011.
- **Das S** and Tibarewala DN. Stabilometric stance stability analysis of below fifty-years age post-stroke hemiplegic patients; National Conference on Industrial Engineering, organised by WBUT and NPC, Kolkata, and held at West Bengal University of Technology, Kolkata (West Bengal), February 17-18, 2011.
- **Dutta M**: 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.

- **Dutta M:** A Novel Low-Cost Real-Time Approach to Heart Beat Monitoring and Analysis, Meghamala Dutta & Sourav Dutta Proceedings for the first International Conference on the Convergence of Optics & Electronics, COE 2011 Science City, Kolkata.
- **Dutta M:** Rv 3872-A potential serodiagnostic marker for TB infected East Indian Population: Can modeling predict the accuracy of the tool, CIMPA 2011, Cape Town South Africa, 13th -18th July 2011.
- **Dutta M:** A Genetic Algorithm Based Approach to the design of a Low Cost Prosthetic Arm. Pages 96-101 : Proceedings for the AICTE sponsored National Seminar on Biomedical Engineering Research & Application: Present Day Scenario and the Future, JIS College of Engineering 29th -30th July 2011.
- Pal S & **Bag S** (2008): Biomechanics of bio-glass coating on composite Plate, *J of Biomechanics* 41(S1), 2008.
- Pal, K. **Bag, S** & Pal, S (2008): Development of porous ultra high molecular weight polyethylene scaffolds for the fabrication of orbital implant. *J Porous Mater*, 15 (1), 2008, pp. 53-59.
- Chakraborty, S. **Bag, S.** Pal, S & Mukherjee A. K (2006): Structural & microstructural characterization of bioapatites & synthetic hydroxyapatite using X-ray powder diffraction and FTIR technique. *Journal of Appl. Cryst.*, vol-39, pp 385-390, 2006.
- Pal, K. **Bag, S** & Pal, S (2005): Development and coating of porous UHMWPE plate. *Trends in Biomat. & Artif. Org.*, vol-19(1), pp 39-44, 2005.
- Pal, S. Roy, S & **Bag, S** (2005): Hydroxyapatite coating over alumina-UHMWPE composite biomaterials. *Trends in Biomat. & Artif. Org.*, vol-18(2), pp 106-109, 2005.
- Pal, S. Roy, S & **Bag, S** (2004): *Invitro* biomechanical evaluation of UHMWPE & its composites as biomaterial. *Trends in Biomat. & Artif. Org.*, vol-17 (2), pp 54-60, 2004.
- Biswas B K, **Bag S** & Pal S (2010): Measurement of biting force over dental implant. ASME 2010 Summer Bioengineering Conference, 2010, pp. 767-768.
- **Bag S** & Pal S (2009): Bioactive coating on newly developed composite hipprosthesis. Proc. of 13th Int. Conf. on Biomed. Engg., Singapore, 2008.
- **Bag, S.** Pal, S & Chakraborty, S. N (2006): Development of bioactive coating over composite material- A novel approach. Proc. of National Symp. On Emerging Trends in Polymer Science & Technology, pp 226-229, 2006.
- **Bag, S.** Kundu, A & Pal, S (2006): A Biomechanical study of the Hip-Joint implat made of polymer-ceramic composite using FEM technique & fresh goat femur sample for its experimental validation. Proc. of 13th West Bengal State Science & Technology, pp 55, 2006.

- **Bag, S.** Pal, S & Das, N. K (2006): Polymer-ceramic composite hip prosthesis-An alternative approach. Proc. of 24th Annual Conf. Of West Bengal Orthopaedic Association (WBOACON), 2006.
- **Bag, S** & Pal, S (2005): Biomimetic nanocrystalline hydroxyapatite formation on bio-glass coated polymer plate. National Conf. on Nano-Sc & Tech., 2005.
- **Bag, S.** Pal, S & Chakraborty, S. N (2005): Study of hydroxyapatite coated polymer-ceramic composites for soft tissue attachment. Proc. of 15th National. Conf. on Biomed. Mater. & Artf. Org., pp-12, 2005.
- **Bag, S** Chakraborty, SN & Pal, S (2005): Preparation of polymer-ceramic composite with bioactive coating. Proc. of 12th Int. Conf. on Biomed. Engg., Singapore, pp 130, 2005.
- **Bag, S.&** Pal, S (2004): Invitro carbonated hydroxyapatite formation on bio-glass coated UHMWPE plate. Proc. of ISAMAP2K4, pp 686-691, 2004.
- **Meghamala Dutta** & Sourav Dutta; Design & Development of a Low Cost Intelligent Arm Based on GA, Proceedings for the 7th International Conference on Electrical Engineering, ICEENG 7, May 25-27, 2010 Cairo Egypt.
- **Meghamala Dutta** & Sourav Dutta; Analysis and Optimization of Myoelectric Signals for the Design of a Low Cost Prosthetic Arm, Proceedings for the National Conference NC 2010, 1st-3rd December 2010, Bhopal India.
- **Meghamala Dutta**, The RD1 encoded antigen Rv 3872 of MycobacteriumTuberculosis as a potential for serodiagnosis of Tuberculosis, Journal of Clinical Microbiology and Infection 2007, Vol 13 Pages 146-152.
- **Ganguly Bhattacharjee K**, Sinha AK (2010). Normalization by aspirin (acetyl salicylic acid) of the impaired synthesis of maspin, an antibreast cancer protein, due to the dysfunctional estrogen and progesterone receptors in breast cancer. Ind J of Clinical Biochemistry Supplement. 25: (Abstract).
- **Ganguly Bhattacharjee K**, Girish GV, Sinha AK (2009). Diagnosis of Breast Cancer by the Determination of Plasma Maspin Level. Ind J of Clinical Biochemistry Supplement. 24: PP 98. (Abstract).