

1. FULL NAME**DEWAKI NANDAN TIBAREWALA****2. RESIDENCE**

Flat – 1, 61 B, Sardar Shankar Road, Kolkata – 700 029

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Email: biomed_ju@yahoo.co.inbiomed.ju@gmail.com**3. NATIONALITY**

Indian

4. DATE OF BIRTH

December 1, 1951

5. LANGUAGES KNOWN

English, Hindi, and Bangla

6. EDUCATION**• Ph.D. (Technology)**

University of Calcutta (1980)

Research Area: Biomedical Engineering

• B. Tech (Applied Physics)

University of Calcutta (1974), with 80% marks.

• B. Sc. (Physics Honours)

St. Xavier's College, University of Calcutta (1971), with 62% marks.

• Higher Secondary

West Bengal Board of Secondary Education (1968), with 70% marks.

7. PRESENT POSITIONS**• Professor of Biomedical Engineering** (Since August, 1996),

School of Bioscience and Engineering

Jadavpur University, Kolkata

• Member Expert (NBA – AICTE) for Biomedical Engineering**• External Expert Member**

Board of Studies for Biomedical Engineering

IIT(BHU), Banaras Hindu University, Varanasi, U.P.

• External Expert Member

Board of Studies for Biomedical Engineering

Biju Pattanayak University of Technology, Orrisa

• External Expert Member

Board of Studies for Biomedical Engineering

North East Hill University, Shillong, Meghalaya

8. PROFESSIONAL MEMBERSHIPS**• Life Fellow** – *The Institution of Engineers (India)***• Life Member** – *Biomedical Engineering Society of India***• Life Member** – *Indian Society of Biomechanics*

9. OCCUPATIONAL RETROSPECT

- **August 1996 – till date**
Professor of Biomedical Engineering
School of Bioscience and Engineering
Jadavpur University, Kolkata
- **May 2004 – November 2011**
Director
School of Bioscience and Engineering
Jadavpur University, Kolkata
- **January 1990 – July 1996**
Chief Advisor (R & D) at M/s ABHIYANTA, Kolkata
- **March 1987 – December 1989**
Senior Research Engineer at Jadavpur University
- **April 1983 – March 1987**
CSIR Pool Scientist at the National Institute for the Orthopaedically Handicapped, Kolkata
- **April 1977 – March 1983**
Bioengineering Unit, Calcutta University College of Medicine (Goenka Hospital) as **Honorary Researcher** up to January 1978, as a **Research Associate** up to December 1981, and finally as **Project Technical Officer** up to March 1983
- **October 1976 to March 1977**
National Test House, Kolkata as a **Senior Scientific Assistant**

10. PROFESSIONAL AND RESEARCH EXPERIENCE

- About 40 years of professional experience in the field of Biomedical Engineering since April 1977. Over this span, involvements included Teaching at Post-Graduate and Under-Graduate levels, Organization of Seminars & Conferences, Development of Laboratories, Coordination of Research Projects, Development of Biomedical Instrumentation Systems, and; multi-disciplinary applied research in Rehabilitation Engineering, Biomedical Instrumentation, and Bio-Signal Processing.
- Have supervised research work for 11 PhD(Engg) and 53 Post-Graduate Theses in Biomedical Engineering (already degree awarded), and presently, 3 Ph.D.(Engg) scholars and 2 final year ME (*Biomedical Engg.*) students are working under supervision of Prof. Tibarewala.
- Coordinated TIFAC sponsored Project **R&D&I Centre for Baruipur Surgical Instruments Industry Cluster** during the period April 2009-November 2011.

11. RESEARCH CONTRIBUTIONS

- More than 250 Research Papers, including publications in National/International Scientific Journals and Proceedings, Chapters in Engineering Reference books, and, contributions in various National/International Scientific Conferences, Seminars, and Symposia.
- Have completed supervision of *eleven Ph.D. Theses* for which degree has already been awarded.
- Research work on *three Ph.D. theses* is in progress.
- Have supervised final year project work of more than 50 students of *Master of Biomedical Engineering*. Currently supervising final year project work of *two* students of **ME (Biomedical Engineering)**, who will be submitting in May 2016.

12. PATENTS

- Indian Patent No. **271918** for **“Array Based Tactile Vision for the Blind People Using Multi-Directional Ultrasonic Scanning of Environment”**, granted on 10th March 2016 (Patent Application and Detail Specifications filed on 19th February 2009).

Doctoral Research Supervised by Prof. D. N. Tibarewala

1. **A Study On Design Optimization Of Prostheses-Rehabilitate Systems For Trans Tibial Amputees In Indian Conditions (April, 2008):** Thesis submitted to Jadavpur University for the degree of Doctor of Philosophy in Engineering by **Prasanna Kumar Lenka** under the guidance of **Prof. D. N. Tibarewala** & Dr. Amit RoyChowdhury. (Degree Awarded)
2. **Transdermal Iontophoretic Drug Delivery Using Polymeric Hydrogel Membranes (July, 2009):** Thesis submitted to Indian Institute of technology, Kharagpur for the degree of Doctor of Philosophy by **Rajdeep Dasgupta** under the guidance of Prof. Ajit Kumar Banthia & **Prof. D. N. Tibarewala**. (Degree Awarded)
3. **A Study Of The Effect Of Meditation On HRV Data - Some Analytic And Computational Approach (January, 2010):** Thesis submitted to Jadavpur University for the degree of Doctor of Philosophy in Engineering by **Damodar Prasad Goswami** under the guidance of **Prof. D. N. Tibarewala** & Prof.D.K.Bhattacharya. (Degree Awarded)
4. **On Design And Analysis Of Prosthetic Control Introducing Simulation Method (December 2010):** Thesis submitted to Jadavpur University for the degree of Doctor of Philosophy in Engineering by **Biswarup Neogi** under the guidance of **Prof. D. N. Tibarewala** & Prof. A. Das. (Degree Awarded)
5. **Myocardial Functional Status In Dilated Cardiomyopathy And Its Changes After Treatment (December, 2010):** Thesis submitted to Jadavpur University, for the degree of Doctor of Philosophy in Engineering by **Susil Chandra Biswas** under the guidance of **Prof. D. N. Tibarewala** & Prof. A. Das. (Degree Awarded)
6. **Characterization of Heart Rate Variability (HRV) Among the Inhabitants of Northern Hilly Region of West Bengal (March 2011):** Thesis submitted to Jadavpur University, for the degree of Doctor of Philosophy in Engineering by **Ankur Ganguly** under the guidance of **Prof. D. N. Tibarewala** & Prof. S. Dasgupta. (Degree Awarded)
7. **Signal Correction Technique for Desired Performance of Control Systems (July 2011):** Thesis submitted to Jadavpur University, for the degree of Doctor of Philosophy in Engineering by **Rajib Bag** under the guidance of **Prof. D. N. Tibarewala** & Prof. A. Das. (Degree Awarded)
8. **Effect of Music and Meditation on Human Nervous System as Revealed Through HRV and EEG Signals (June 2014):** Thesis submitted to Jadavpur University, for the degree of Doctor of Philosophy in Engineering by **Anilesh Dey** under the guidance of **Prof. D. N. Tibarewala** & Prof.D.K.Bhattacharya. (Degree Awarded)
9. **Human Computer Interface for Motion Control of Artificial Limb(s) (August 2014):** Thesis submitted to Jadavpur University, for the degree of Doctor of Philosophy in Engineering by **Saugat Bhattacharyya** under the guidance of **Prof. D. N. Tibarewala** & Prof. Amit Konar. (Degree Awarded)
10. **On Application of Non-linear Techniques in the Analysis of Heart Rate Variability (HRV) (August 2014):** Thesis submitted to Jadavpur University, for the degree of Doctor of Philosophy in Engineering by **Subhojit Sarker** under the guidance of **Prof. D. N. Tibarewala** & Prof. Ankur Ganguly. (Degree Awarded)
11. **Artificial Interface for Somato-Sensory Perception (September 2014):** Thesis submitted to Jadavpur University, for the degree of Doctor of Philosophy in Engineering by **Anwasha Khasnobish** under the guidance of **Prof. D. N. Tibarewala** & Prof. Amit Konar. (Degree Awarded)
12. **Electrooculographic Interface(s) for Rehabilitative Application(s) (September 2016):** Thesis submitted to Jadavpur University, for the degree of Doctor of Philosophy in Engineering by **Anwasha Banerjee** under the guidance of Prof. D. N. Tibarewala. (In the process of evaluation)
13. **Some New Approaches towards Analyzing Genome Sequence:** Research work in progress by **Subhram Das** under the guidance of **Prof. D. N. Tibarewala** & Prof.D.K.Bhattacharya (Registered for degree of Doctor of Philosophy in Biomedical Engineering)

Supervision of PG Theses Projects by Prof. D. N. Tibarewala

1. **Design, Fabrication & Evaluation of Heart Rate Monitor (1998):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Sukumar Roy under the guidance of **Prof. D. N. Tibarewala**.
2. **Study of Stance Stability using Single Load-Cell Force Platform (1998):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Atreyee Chakraborty under the guidance of **Prof. D. N. Tibarewala** and Prof. S. Pal.
3. **Development of PC-Based Three Dimensional Force Plate (1999):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Sourav Saha under the guidance of **Prof. D. N. Tibarewala** and Prof. S. Pal.
4. **Measurement of Viscosity Profile & Electrical Properties of Normal & Diseased Synovial Fluid or Blood Plasma (1999):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Abhijit Ghosh under the guidance of **Prof. D. N. Tibarewala** and Prof. S. Pal.
5. **Design and Fabrication of ECG Telemetry System (2000):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Rajni Kant Mishra under the guidance of **Prof. D. N. Tibarewala**.
6. **Development of Ultrasound Tachograph for Gait Evaluation (2000):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Rana Ghosal under the guidance of **Prof. D. N. Tibarewala**.
7. **ECG Signal Acquisition & Offline Processing for Parameter Detection (2000):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Nitin Arora under the guidance of **Prof. D. N. Tibarewala**.
8. **Development of A General Purpose Multichannel Biotelemetry System (2001):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Kona Soujanya under the guidance of **Prof. D. N. Tibarewala**.
9. **Upgradation and Evaluation of Ultrasound Gait Tachography (2001):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Binata Ghosh under the guidance of **Prof. D. N. Tibarewala**.
10. **Development of A FM Recorder for Storage of Biomedical Signals (2002):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Antara Pal under the guidance of **Prof. D. N. Tibarewala**.
11. **Design, Fabrication & Evaluation of Dissolved Oxygen Monitor (2002):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Biman Natua under the guidance of **Prof. D. N. Tibarewala**.
12. **Computer Based Analysis of Phonocardiographic Signals (2002):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Ujjal Bhanu Ghosh under the guidance of **Prof. D. N. Tibarewala** and Prof. S. Pal.
13. **Study of Transfer Characteristics of Optocouplers for Application in Biomedical Signal Processing (2002):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Jayashree Hazra under the guidance of **Prof. D. N. Tibarewala**.
14. **A Study on Time-Frequency Characterization of Surface Myoelectric Signals (2003):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Piyali Basak under the guidance of **Prof. D. N. Tibarewala**.

15. **A Study on Effect of Smoking on Sympathovagal Factors as Reflected by Heart Rate Variability (2003):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by P. Joseph Ezhil Rajan under the guidance of **Prof. D. N. Tibarewala**.
16. **A Study on Suitability of Packaging Grade Polypropylene Membrane in Dissolved Oxygen Measurement for Water Pollution Control (2003):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Dalia Acharjee under the guidance of **Prof. D. N. Tibarewala**.
17. **Development of A Low Cost Two Channel Biotelemetry Systems (2004):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Monisha Chakraborty under the guidance of **Prof. D. N. Tibarewala**.
18. **Design, Fabrication and Evaluation of An Isolated Biopotential Amplifier (2004):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Darshana De under the guidance of **Prof. D. N. Tibarewala**.
19. **Development and Validation of A Parallel Port Based Data Acquisition System for Study of Heart Rate Variability (2005):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Sucharita Santra under the guidance of **Prof. D. N. Tibarewala**.
20. **A Study On DSP Application In Speech Feature Extraction Leading to Speaker Identification (2005):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Sambuddha Khan under the guidance of **Prof. D. N. Tibarewala**.
21. **A Study On DSP Application In Speech Feature Extraction Leading to Speaker Identification (2005):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by C.B.N. Chetty under the guidance of Prof. B.N. Lahiri and **Prof. D. N. Tibarewala**.
22. **Development of A Cost Effective Lactate Biosensor (2005):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Amit Prabhakar under the guidance of **Prof. D. N. Tibarewala**.
23. **Heart Rate Variability during Exercise and Recovery (2006):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Soumi Ganguly under the guidance of **Prof. D. N. Tibarewala**.
24. **A Study On Design Optimization Of Isolated Biopotential Amplifier (2006):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Paramita Banerjee under the guidance of **Prof. D. N. Tibarewala**
25. **Load Cells For Force Platform Design, Fabrication And Calibration (2006):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Monalisa Ghosh under the guidance of **Prof. D. N. Tibarewala** & Prof. B.N.Lahiri
26. **Development Of Computer-Based Techniques For Study Of Postural Sway (2006):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Srijeeta Bagchi under the guidance of **Prof. D. N. Tibarewala**
27. **Design And Development Of A Low-Cost Force Plate For Stance Stability Analysis (2006):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Amartya Ghosh under the guidance of **Prof. D. N. Tibarewala** & Mr. P. Lenka

28. **A Study On Application Of Low Cost Force Plate For Evaluation Of Prosthetic Design (2007):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Jayanta Misra under the guidance of **Prof. D. N. Tibarewala** & Mr. Prasanna Kumar Lenka
29. **Analysis Of Cardiac Signal Using Signal Processing Methods (2007):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by B. Indira under the guidance of **Prof. D. N. Tibarewala** & Shri K. Srinivas
30. **Development Of Low Cost Galvanic Skin Resistance Meter (2007):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Sanghamitra Layek under the guidance of **Prof. D. N. Tibarewala** & Dr. Monisha Chakraborty
31. **Vibrotactile Vision For The Blind People Using Multi-Directional Ultrasonic Scanning (2008):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Abhijit Biswas under the guidance of **Prof. D. N. Tibarewala** & Dr. Sushanta Biswas.
32. **Centre of pressure swing analysis of amputee patients for evaluation of prosthetic design (2008):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Tilok Ranjan Maity under the guidance of **Prof. D. N. Tibarewala** & Mr. P.K. Lenka
33. **Effect Of Audio-Visual Stimuli On Occipital Lobe (2009):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Santanu Sahu under the guidance of **Prof. D. N. Tibarewala**
34. **Study of HRV in women of different age groups (2009):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Sumana Chatterjee under the guidance of **Prof. D. N. Tibarewala**
35. **Analysis Of Stance Stability In Post Stroke Hemiplegics Using Stabilometric Method (2009):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Souvik Das under the guidance of **Prof. D. N. Tibarewala** & Dr. P. Lenka
36. **Development Of A Control Strategy For Real Time Hand Tremor Compensation Using Electromyography (2010):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Koushik Bakshi under the guidance of Prof. Amit Konar & **Prof. D. N. Tibarewala**
37. **Application of Electromyography & Accelerometry in Real Time Hand Tremor Compensation (2010):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Sourav Chandra under the guidance of **Prof. D. N. Tibarewala** & Prof. Amit Konar
38. **An Approach Towards Ophthalmological Diagnosis Through Automated OCT Image Analysis (2010):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Rupsa Datta under the guidance of **Prof. D. N. Tibarewala**
39. **Effect of Emotional Audio-visual Stimulus on Autonomic Nervous System in Young Females (2011):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Amandeep Kaur under the guidance of **Prof. D. N. Tibarewala** & Prof. Ankur Ganguly.
40. **Emotion Recognition from Stimulated EEG Signals (2011):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Anwesha Khasnobis under the guidance of **Prof. D. N. Tibarewala** & Prof. Amit Konar.

41. **Pattern Analysis of Heart Rate Variability in Females (2011):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Deepti Srivastava under the guidance of **Prof. D. N. Tibarewala** & Ms. Sumana Chatterjee.
42. **Radiographic Bone Image Processing and Disease Diagnosis (2011):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Anupam Maiti under the guidance of **Prof. D. N. Tibarewala** & Dr. Sukumar Roy.
43. **Motor Execution & Imagery Classification from Electroencephalography Signals for Neuroprosthetic Applications (2011):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Saugat Bhattacharyya under the guidance of **Prof. D. N. Tibarewala** & Prof. Amit Konar.
44. **Position Control of an EEG driven Artificial Limb using Motor Imagery (2012):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Rinku Roy under the guidance of **Prof. D. N. Tibarewala** & Prof. Amit Konar.
45. **Electrooculogram based Control Drive for Wheelchair Realized with Embedded Processors (2012):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Anwesha Banerjee under the guidance of **Prof. D. N. Tibarewala** & Prof. Amit Konar.
46. **Nonlinear Analysis and Temporal Evolution of Motor Imagery (2012):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Somsirsa Chatterjee under the guidance of **Prof. D. N. Tibarewala** & Prof. Amit Konar.
47. **Development of Low Cost Biomedical Spectroscopic Tool (2013):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Nabarun Polley under the guidance of **Prof. D. N. Tibarewala** & Dr. Samir Kumar Pal.
48. **Development of Iontophoretic Drug Delivery Device with Hydrogel Membrane (2013):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Prasanta Bera under the guidance of **Prof. D. N. Tibarewala** & Dr. Piyali Basak.
49. **Synthesis and Characterization of Polyvinyl Alcohol Based Composites for Tissue Engineering (2014):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Shreya Ghosh under the guidance of **Prof. D. N. Tibarewala** & Dr. Piyali Basak.
50. **Studying the Effect of Music on EEG, GSR and HRV Signals (2014):** Thesis submitted in partial fulfillment of the requirements for the degree of **M.E.(Biomedical Engineering)** of Jadavpur University by Supriyo Chakraborty under the guidance of **Prof. D. N. Tibarewala** & Sri Anilesh Dey (October 2014).
51. **Role of Brain Biopotentials in Studying the Effect of Cognitive Stress on Brain (2015):** Thesis submitted in partial fulfillment of the requirements for the degree of **M.E.(Biomedical Engineering)** of Jadavpur University by Ankita Mazumder under the guidance of **Prof. D. N. Tibarewala**.
52. **Analysis of Brain Activity Employing Electroencephalography Signal (2015):** Thesis submitted in partial fulfillment of the requirements for the degree of **M.E.(Biomedical Engineering)** of Jadavpur University by Poulami Ghosh under the guidance of **Prof. D. N. Tibarewala**.

53. **Multimodal Approach Towards Emotion Recognition using Biopotential Signals (2015):** Thesis submitted in partial fulfillment of the requirements for the degree of **M.E.(Biomedical Engineering)** of Jadavpur University by Sananda Paul under the guidance of **Prof. D. N. Tibarewala**.
54. **Assessment of Emotion and Stress through Markers of ANS (2016):** Thesis submitted in partial fulfillment of the requirements for the degree of **M.E.(Biomedical Engineering)** of Jadavpur University by Priyanka Das under the guidance of **Prof. D. N. Tibarewala** & Dr. Anwesha Khasnobish.
55. **Physiological Signal Classification for Bio-Perceptive and Rehabilitative Robotic Application (2016):** Thesis submitted in partial fulfillment of the requirements for the degree of **Master of Biomedical Engineering** of Jadavpur University by Arnab Rakshit under the guidance of **Prof. D. N. Tibarewala** & Prof. Amit Konar.

Books, Book Chapters and Journal Papers Contributed by Prof. D. N. Tibarewala

A. Books

- Konar, **D. N. Tibarewala**, S. Bhattacharyya, and A. Khasnobish: **“Non-Invasive Human-Computer Interfaces for Rehabilitative Applications”**, Series Title: *Biosystems & Biorobotics*, Springer, Heidelberg, Germany (In Press).

B. Book Chapters

1. **Tibarewala, D.N.:** **“An Improved Gait Tachograph for Routine Assessment of Lower Extremity Disabled in Rehabilitation Clinics”** In *Biomechanics (Ed. Sahay and Saxena)*, Wiley Eastern, 1988.
2. Bakshi K., Chandra S., Konar A., and **Tibarewala D.N.:** **“Hand Tremor prediction and classification using electromyogram signals to control neuro-motor instability”** In *Cross-Disciplinary Applications of Artificial Intelligence and Pattern Recognition: Advancing Technologies*, IGI Global Publication, Pennsylvania, USA, December 2011.
3. Ghosal S., Darbar R., Neogi B., Das A. & **Tibarewala D.N.:** **“Application of Swarm Intelligence Computation Techniques in PID Controller Tuning – A Review”** In *Advances in Intelligent and Soft Computing, Springer Series 2012, Volume 132*.
4. Banerjee A., Pratyusha Das, Shounak Datta, Amit Konar, R. Janarthanan, and **Tibarewala D. N.:** **“Real Time Electro-Oculogram Driven Rehabilitation Aid”**, In *Advances in Intelligent Systems and Computing*, vol.174, pp. 435-440. Springer India, 2012.
5. Khasnobish A., S. Bhattacharyya, A. Konar and **Tibarewala D. N.** S.D. Burman, and R. Janarthanan: **“Positive and Negative Emotion Classification from Stimulated EEG signals”** In *Biomedical Engineering*, R.R. Galigekere, A.G Ramakrishnan, J.K., Udupa (Eds.), Narosa Publishing House, New Delhi, pp. 114-119, 2012.
6. Rakshit P., S. Bhattacharyya, A. Konar, A. Khasnobish, **D. N. Tibarewala** and R. Janarthanan: **“Artificial Bee Colony Based Feature Selection for Motor Imagery EEG Data”**, In *Advances in Intelligent Systems and Computing(7th Int. Conf. Bio-Inspired Comp.: Theo. & App. BIC-TA 201)*, Vol. 202, pp. 127-138, 2012.
7. Bhattacharyya S., A. Khasnobish, A. Konar and **Tibarewala D. N.** , S.D. Burman, and R. Janarthanan:**“Non-linear analysis of EEG signals for the classification of Left/Right hand movement”** In *Biomedical Engineering*, R.R. Galigekere, A.G Ramakrishnan, J.K., Udupa (Eds.), Narosa Publishing House, New Delhi, pp. 108-113, 2012.
8. Khasnobish A., A. Konar **Tibarewala D. N.**, S. Bhattacharyya, and R. Janarthanan: **“Object Shape Recognition from EEG Signals during Tactile and Visual Exploration”**, In *Pattern Recognition and Machine Intelligence, Lecture Notes in Computer Science*. vol. 8251, Eds. P. Maji, et al.,: Springer Berlin Heidelberg, pp. 459-464, 2013.

9. Banerjee, Anwasha, Amit Konar, R. Janarthana, and **Tibarewala D. N.:** "**Electro-oculogram Based Classification of Eye Movement Direction**" *In Advances in Computing and Information Technology*, vol. 178, pp. 151-159, Springer Berlin Heidelberg, **2013**.
10. Khasnobish, Anwasha; Bhattacharyya, Saugat; Singh, Garima; Jati, Arindam; Konar, Amit; **Tibarewala, D. N.** Janarthanan, R. : "The Role of Empirical Mode Decomposition on Emotion Classification Using Stimulated EEG Signals"; *Advances in Computing and Information Technology* 178: 55-62 , **2013**.
11. Bhattacharyya, S., P. Rakshit, A. Konar, **D.N.Tibarewala**, and R. Janarthanan: "**Feature Selection of Motor Imagery EEG Signals Using Firefly Temporal Difference Q-Learning and Support Vector Machine**", *In Swarm, Evolutionary, and Memetic, Computing, Lecture Notes in Computer Science* Vol. 8298, Eds.: B. Panigrahi, P.N. Suganthan, S. Das, and S.S. Dash, 534-545, Springer International Publishing, Switzerland, **2013**.
12. Chatterjee S., S. Bhattacharyya, A. Konar, A. Khasnobish, **Tibarewala D. N.** and R. Janarthanan: "**Performance Analysis of Multiclass Common Spatial Patterns in Brain-Computer Interface**", *In Pattern Recognition and Machine Intelligence, Lecture Notes in Computer Science*. P. Maji, et al., Eds., Springer Berlin Heidelberg, vol. 8251, 115-120, **2013**.
13. Banerjee Anwasha, Datta Shreyasi, Konar Amit, **Tibarewala D.N.** and Janarthanan R.: "**Cognitive Activity Recognition based on Electrooculogram Analysis**", *Advanced Computing, Networking and Informatics-Volume-1*, pp.637-644. Springer International Publishing, **2014**.
14. Ganguly A., **Tibarewala D. N.**, S. Das Gupta and Subhojit Sarker: "**Characterization of Heart Rate Variability (HRV) among the Inhabitants of Northern Hilly Regions of West Bengal**", *In Encyclopedia of Information Science and Technology*, 3rd Ed., 402-413, IGI Global, **2014**.
15. Dey A., D. K. Bhattacharya, Sanjay Kumar Palit, and **Tibarewala D. N.:** "**Study of the Effect of Music and Meditation on Heart Rate Variability**", *In Encyclopedia of Information Science and Technology*, 3rd Ed., pp 6089-6102, IGI Global, **2014**.
16. S. Bhattacharyya, M.A. Hossain, A. Konar, **D.N. Tibarewala**, and R. Janarthanan: "**Detection of Fast and Slow Hand Movements from Motor Imagery EEG Signals**", *Advanced Computing, Networking, and Informatics Vol.1, Smart Innovation, Systems and Technologies*, (Eds.- M.K. Kundu, D.P. Mohapatra, A. Konar, & A. Chakraborty), Springer International Publishing, Vol.27, pp. 645-652, **2014**.
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