

PROFILE

*“God is said to be invisible. But in my opinion God is visible. **My parents are my God** . In our life we should follow someone, make him/her idol , treat as God in order to be a God in future.”*

- Prof.(Dr.)P.Chakrabarti



<https://scholar.google.co.in/citations?user=NgtekosAAAAJ&hl=en>

1) NAME : PROF. (DR.) PRASUN CHAKRABARTI

Ph.D(Engg) Jadavpur University (2009)
D.Litt (Management) , Sambalpur University (2022)
FIET(UK), FIE, FIETE, FCET(I), FSCRA ,
FIRSD(UK), FAE(I), FIAER (London), Fellow- Nikhil Bharat Shiksha Parisad
Honorary Fellow, Iranian Neuroscience Society
Honorary Senior Fellow, Wales Institute of Digital Information, UK (2021)

2) DATE OF BIRTH : The 9th day of March , 1981

3) ADDRESS : NABANIR, 23U, D.P.P.Road, Kolkata-700047, West Bengal, India

4) EMAIL_ID : drprasun.cse@gmail.com ; prasun9999@rediffmail.com

5) MOBILE : +91 6290026219

6) Current Position :

DIRECTOR , Directorate of Research and Publications and **DEAN -**
International Affairs and
SENIOR PROFESSOR
Department of Computer Science and Engineering
Sir Padampat Singhania University, Udaipur 313601, Rajasthan , India

Visiting Positions :

Honorary Adjunct Distinguished Scientist of Applied Artificial Intelligence
Cognitive AI and Analytics Innovation Laboratory
Beijing Technology and Business University
China
Term : July 01, 2024 – July 10,2026

Honorary Visiting Distinguished Professor

Data Science Laboratory
Industrial University of Ho Chi Minh City
Vietnam

Term : July 01, 2024 – June 30,2026

Visiting Senior Scientist

Image Processing and Robotics Lab
Department of Advanced Electronic Engineering
Shibaura Institute of Technology, Tokyo, Japan

Term : April 03, 2024 – April 02,2026

Honorary Adjunct Distinguished Professor

School of Innovative Design and Management
National Taipei University of Business ,Taiwan

Term : February 21, 2024 – February 20,2027

Invited Visiting Senior Scientist

Research Institute on IoT and Cybersecurity ,
National Kaohsiung University of Science and Technology, Taiwan

Term : September 27, 2023 – September 26, 2026

Visiting Distinguished Research Fellow

Wales Institute of Digital Information ,UK

Term : July 12, 2022 – July 11, 2024

Honorary Adjunct Distinguished Professor

Laboratory - Intelligent Electrical Agricultural Machines and Complexes , Don
State Technical University RUSSIA

Term : June 09, 2022 – June 08, 2025

Visiting Professor

Shiraz University of Medical Sciences
Iran

Term – 2021-2024

Honorary Visiting Distinguished Scientist

Physical Layer Aware NETworking (PLANET) Laboratory
Department of Electronics and Telecommunications
Politecnico di Torino Italy

Term – March 01, 2023 – February 28, 2025

Distinguished Research Fellow : Dana Brain Health Institute / National Brain Mapping Lab
DBHI/NBML, Iran (Reference No. 19221RFDBHI)
www.dbhi.ir | www.nbml.ir
Term : February 19, 2021 – February 18, 2023

**Honorary Adjunct Distinguished Professor
and Senior Research Fellow :**

Scientific Innovation Research Group (SIRG).
(SIRG), Beni-Suef City, Egypt, 62688/ 2994/ T/ 21/6/2021
Term : August 08,2022 – March 31,2025

7) ACADEMIC RECOGNITIONS :

I) Promoted to SENIOR Professor on April 01, 2024 at an age of only 43 years 22 days.

II) PhD Thesis examiner of

- a) Deakin University, Australia
- b) University of Technology Sydney , Australia

III) Research paper entitled "Parking Lot Occupancy Detection Using Hybrid Deep Learning CNN-LSTM" by Dr Bui Thanh Hung (Thu Dau Mot University Vietnam) and Prof Prasun Chakrabarti has been selected as Best Paper in ICAIAA 2021 (International Conference on Artificial Intelligence: Advances and Applications), India , Mar 27-28, 2021. Proceedings by Springer.
<https://www.icaiaa21.scrs.in/>

IV) Elected as

FELLOW , SCIENTIFIC COMMUNICATIONS RESEARCH ACADEMY [CNAF01122305] in 2023

HONORARY SENIOR FELLOW , WALES INSTITUTE OF DIGITAL INFORMATION in 2021

FELLOW , THE INSTITUTIONS OF ENGINEERS (INDIA) [F-1276197] in 2021

HONORARY FELLOW , IRANIAN NEUROSCIENCE SOCIETY [HonsFINSS – 15221] in 2021

FELLOW, NIKHIL BHARAT SHIKSHA PARISAD [NBSPIN33A] in 2021

FELLOW, ROYAL SOCIETY OF ARTS (RSA) [F-8199304] in 2020

FELLOW , IET (UK) [F-70727757] in 2020

V) Visited **GTE Laboratory , Asian Institute of Technology Bangkok** as per invitation by **Prof Pham Huy Giao**, Associate Professor and Chair, Geotechnical and Earth Resources Engineering Program, from October 26-29, 2019 for pursuing collaborative research work on “Applications of Artificial Intelligence in Geotechnical and Earth Resources Engineering”.

VI) Visited **The Logistics Institute-Asia Pacific – National University of Singapore** from April 16-19,2019 as **Visiting Scholar** and **Research collaborator** of **Prof Mark Goh**

VII) Visited **Cyber Security Laboratory (N4.B2.c06) of School of Computer Engineering, Nanyang Technological University** Singapore from April 19-20,2019 as **Visiting Professor** and **Research collaborator** of **Dr Ng Wee Keong**

VIII) **Visiting Research Professor** and **Research Collaborator** of **Prof R B Bapat** at Theoretical Statistics and Mathematics Unit, **Indian Statistical Institute Delhi** (February 11-16,2019) and (November 27-28,2019).

IX) Elected as **FELLOW** [F-1812041] , International Association of Educators and Researchers, London UK in 2019

X) Visited Lincoln University College Malaysia as **Visiting Distinguished Senior Professor** from 5th to 9th November 2018

XI) Associated with SMARTLab, University of Salerno, Italy as **Visiting Distinguished Research Professor** for 3 years (January 01,2020 – December 31,2022) vide Ref No: UNISA-Italy/Lab-Prof.Siano/December-2019/009

XII) Elected as **LIFE FELLOW** [LF-251] , The Association of Engineers, India in 2018

XIII) Visited **Lincoln University College Malaysia** from February 26 – March 02, 2018 as **Visiting Distinguished Professor**

XIV) Elected as **FELLOW** [F-3140900836] , International Society for Research and Development (ISRDR),UK in 2018

XV) Elevated after scrutiny and election in Admission and Advancement (A&A) Senior Member Review Panel Meeting Schedule on June 10,2017 in Boston, MA, USA(R1) as **SENIOR MEMBER** [SM-90315859] , IEEE,USA in 2017

XVI) Elected as **FELLOW** [F-500321] ,The Institution of Electronics and Telecommunication Engineers (IETE) in 2016

XVII) Elected as **FELLOW** [F-30052], The Council of Engineering & Technology(India) in 2016

XVIII) Biography enlisted in **Marquis Who's Who in the World**, 2011 , 28th Edition , USA ; in 2000 **Outstanding Intellectuals of the 21st Century, 2011** by International Biographical Centre, UK and in Learned India Educationists Who's Who 2017

XVIII) Visited **University of Mauritius** as Honorary Visiting Professor from 21st to 27th May 2015. Visited Dept. of Computer Engineering, **Nanyang Technological University, Singapore** as Honorary Visiting Professor on 21st September 2015 and on 21st March 2016.

XIX) Visited **Waseda University, Japan** from 16th to 25th May 2012 as Honorary Visiting Professor under INSA-CICS Travel Fellowship Award

8) R&D PROJECT :

Title : Discovered facts of Quantification of Thought Process – A perspective of the Philosophy of mind

Principal Investigator : Prof Prasun Chakrabarti

Co-Principal Investigator : Dr Tulika Chakrabarti

Sanctioning Body : Indian Council of Philosophical Research (ICPR) New Delhi (Govt of India, MHRD)

Amount : 2 lacs (2019-23) extension due to COVID 19

Reference : F.4-7/18-19/P&R/ICPR

9) INTELLECTUAL PROPERTY :

German Utility Patent (Granted) –

(1) Patent Number: 20 2022 100 092

Date of filing: Jan 7, 2022

Date of grant: Feb 21, 2022

Title of invention: An artificial intelligence system for breast cancer detection

International Patent Classification Number – **G16H 50/20**

(2) Patent Number: 20 2022 101 198

Date of filing: Mar 3, 2022

Date of grant: Apr 11, 2022

Title of invention: Intelligent Street Light ON/OFF system based on the object detection

International Patent Classification Number – **G05D 25/02**

(3) Patent Number: 20 2022 101 733

Date of filing: Mar 31, 2022

Date of grant: May 16, 2022

Title of invention: A system for crop counting based on artificial intelligence and machine learning

International Patent Classification Number – **G06V 25/02**

UK Design (Granted) -

(1) Design Number: 6320793

Date of registration : October 21, 2023

Date of grant: October 27, 2023

Title of invention: **Solar tree for energy generation**

(2) Design Number: 6320641

Date of registration : October 20, 2023

Date of grant: October 27, 2023

Title of invention: **Milk quality analyzing device**

(3) Design Number: 6320795

Date of registration : October 21, 2023

Date of grant: October 30, 2023

Title of invention: **Smart Floor Cleaning Robot**

(4) Design Number: 6320952

Date of registration : October 23, 2023

Date of grant: November 02, 2023

Title of invention: **Sensor based street light changing robot**

(5) Design Number: 6322511

Date of registration : October 28, 2023

Date of grant: November 07, 2023

Title of invention: **Sensor based breath analyser**

(6) Design Number: 6326050

Date of registration : November 14, 2023

Date of grant: November 22 , 2023

Title of invention: **Sensor based automated rail track inspection trolley**

(7) Design Number: 6329402

Date of registration : November 28, 2023

Date of grant: December 06, 2023

Title of invention: **Artificial intelligence enabled device for singer recognition**

(8) Design Number: 6330587

Date of registration : December 02, 2023

Date of grant: December 12, 2023

Title of invention: **Hybrid Solar and wind powered charging station for e-vehicle**

(9) Design Number: 6337714

Date of registration : January 05, 2024

Date of grant: January 17, 2024

Title of invention: **Machine learning based mobile jammer**

(10) Design Number: 6338621

Date of registration : January 11 , 2024

Date of grant: January 22 , 2024

Title of invention: **Blockchain based medical data storage cloud device**

(11) Design Number: 6338377

Date of registration : January 10 , 2024

Date of grant: January 29 , 2024

Title of invention: **Wearable Device for visually impaired people**

(12) Design Number: 6345789

Date of registration : February 08 , 2024

Date of grant: February 20, 2024

Title of invention: **Multi-purpose cauterization tool for ayurveda**

(13) Design Number: 6347195

Date of registration : February 16 , 2024

Date of grant: February 27, 2024

Title of invention: **Wireless Laptop Charger with Cooling Pad**

(14) Design Number: 6355762

Date of registration : March 28 , 2024

Date of grant: April 09 , 2024

Title of invention: **Sensor based jacket for early detection of cervical cancer**

(15) Design Number: 6356365

Date of registration : April 01, 2024

Date of grant: April 10 , 2024

Title of invention: **Machine learning based humanoid device for object identification**

(16) **Design Number: 6357450**

Date of registration : April 06, 2024

Date of grant: April 15 , 2024

Title of invention: **Remote Controller for live streaming devices**

(17) **Design Number: 6363135**

Date of registration : April 30, 2024

Date of grant: May 09 , 2024

Title of invention: **Artificial Intelligence based lung cancer detecting device**

18) **Design Number: 6386574**

Date of registration : August 26 , 2024

Date of grant: September 03 , 2024

Title of invention: Portable device for secure data encryption

19) **Design Number: 6386575**

Date of registration : August 26 , 2024

Date of grant: September 03 , 2024

Title of invention: Wearable device for monitoring health metrics

20) **Design Number: 6386576**

Date of registration : August 26 , 2024

Date of grant: September 04 , 2024

Title of invention: User interaction computer device in virtual reality systems

21) **Design Number: 6386577**

Date of registration : August 26 , 2024

Date of grant: September 04 , 2024

Title of invention: Sensor-integrated interface design for a smart home control panel

Indian Design Patents (Granted) –

(1) **Design Number: 403294-001**

Date of filing: December 12, 2023

Date of grant: February 02, 2024

Title of invention: Mathematics teaching kit to enhance learning

(2) Design Number: 403541-001

Date of filing: December 12, 2023

Date of grant: March 01, 2024

Title of invention: IOT enabled respiratory sensing device

(3) Design Number: 405163-001

Date of filing: January 19, 2024

Date of grant: March 15, 2024

Title of invention: Attendance Management System

(4) Design Number: 405973-001

Date of filing: January 29, 2024

Date of grant: March 15, 2024

Title of invention: IOT based cutting machine for agricultural purpose

(5) Design Number: 406169-001

Date of filing: January 31, 2024

Date of grant: April 18, 2024

Title of invention: IoT based device to manage home appliance through hand gestures

(6) Design Number: 407665-001

Date of filing: February 02, 2024

Date of grant: April 25, 2024

Title of invention: IoT based wireless charging station

(7) Design Number: 407234-001

Date of filing: February 11, 2024

Date of grant: April 25, 2024

Title of invention: AI based device to identify functioning of blood circulation

(8) Design Number: 408925-001

Date of filing: February 27, 2024

Date of grant: May 02, 2024

Title of invention: Apparatus to separate proteins as per molecule

(9) Design Number: 409873-001

Date of filing: March 08, 2024

Date of grant: May 02, 2024

Title of invention: Optical filter for microscope condenser lens

10) Design Number: 410588-001

Date of filing: March 15, 2024

Date of grant: May 16, 2024

Title of invention: Advanced robotic hand for industrial application

11) Design Number: 411981-001

Date of filing: March 29, 2024

Date of grant: May 17, 2024

Title of invention: Route follower based shopping robot

Australian Innovation Patents (Granted) –

(1) Patent Number: 2020104352

Date of filing: Dec 27, 2020

Date of grant: Mar 3, 2021

Title of invention: Future summer temperature average prediction from air temperature rate data

(2) Patent Number: 2020104364

Date of filing: Dec 29, 2020

Date of grant: Mar 3, 2021

Title of invention: Improved IoT-based control system combined with an advanced control management server-based system

(3) Patent Number: 2020104365

Date of filing: Dec 29, 2020

Date of grant: Mar 3, 2021

Title of invention: An Efficient Power Distribution Based on IOT-Fog Resource for Effective Proxy Negotiation for Traffic Reduction

(4) Patent Number: 2021100000

Date of filing: Jan 1, 2021

Date of grant: Mar 3, 2021

Title of invention: A method to measure the air pollution impact on terrestrial and natural vegetation in urban locations

(5) Patent Number: 2021100003

Date of filing: Jan 1, 2021

Date of grant: Mar 3, 2021

Title of invention: A Deep Transportation Model to predict the human mobility for autonomous vehicle

(6) Patent Number: 2021100001

Date of filing: Jan 1, 2021

Date of grant: Mar 3, 2021

Title of invention: Scientific model for predicting change in rainfall using climatic raster data mining

(7) Patent Number: 2021100002

Date of filing: Jan 1, 2021

Date of grant: Mar 3, 2021

Title of invention: Technique to GIS modelling of water bodies by mapping riparian vegetation along the shore

(8) Patent Number: 2021100083

Date of filing: Jan 7, 2021

Date of grant: Mar 17, 2021

Title of invention: A dynamic legged locomotion process using the spring-loaded inverted pendulum (SLIP) for soft robot

(9) Patent Number: 2021100084

Date of filing: Jan 7, 2021

Date of grant: Mar 17, 2021

Title of invention: IoT-Enable wireless sensor networks for controlled and safe routing

(10) Patent Number: 2021100265

Date of filing: Jan 16, 2021

Date of grant: Mar 31, 2021

Title of invention: Phenyl Ethanoid Glycoside from the bark of *oroxylum indicum* vent : A potential inhibitor of DNA Topoisomerase IB of Leishmania Donovanii

(11) Patent Number: 2021100301

Date of filing: Jan 18, 2021

Date of grant: Mar 31, 2021

Title of invention: A closed loop serpentine crawling technique for two anchor peristaltic mobile soft robot

(12) Patent Number: 2021100302

Date of filing: Jan 18, 2021

Date of grant: Mar 31, 2021

Title of invention: A process of degrading polystyrene plastic using beetle larvae

(13) Patent Number: 2021100913

Date of filing: Feb 18, 2021

Date of grant: Apr 14, 2021

Title of invention : Secure technique in energy harvesting IoT devices using slotted ALOHA with NOMA

(14) Patent Number: 2021100964

Date of filing: Feb 22, 2021

Date of grant: Apr 14, 2021

Title of invention: GPS data spoofing and malfunctioning detection system using classifiers

(15) Patent Number: 2021101039

Date of filing: Feb 25, 2021

Date of grant: Apr 14, 2021

Title of invention: Blended teaching and learning management platform for primary school children during epidemic period

(16) Patent Number: 2021101041

Date of filing: Feb 25, 2021

Date of grant: Apr 14, 2021

Title of invention: Requirement based community formation and evolution system in social networks during emergency using bigdata

(17) Patent Number : 2021101252

Date of filing : Mar 10, 2021

Date of grant : Apr 21, 2021

Title of invention : Localization method using integrated sensors in autonomous scrubbing robots for industrial cleaning

(18) Patent Number : 2021101274

Date of filing : Mar 11, 2021

Date of grant : Apr 21, 2021

Title of invention : Integrated multimodal sensor system for Agri Farms

(19) Patent Number : 2021101367

Date of filing : Mar 16, 2021

Date of grant : Apr 28, 2021

Title of invention : Pre and Post Emergency and epidemic exposure management system using big data

(20) Patent Number : 2021101384

Date of filing : Mar 17, 2021

Date of grant : Apr 28, 2021

Title of invention : A microcontroller based low-cost electronic locking system using 2-way authentication

(21) Patent Number : 2021101495

Date of filing : Mar 23, 2021

Date of grant : Apr 28, 2021

Title of invention : Intelligent hearing aid system using augmented audio reality

(22) Patent Number : 2021101589

Date of filing : Mar 28, 2021

Date of grant : May 5, 2021

Title of invention : Navigation technique for self driving cleaning robots for congested public location

(23) Patent Number : 2021101590

Date of filing : Mar 28, 2021

Date of grant : May 5, 2021

Title of invention : Realtime signal generators for cellular jammer with dynamic switching of frequency bands

(24) Patent Number : 2021101730

Date of filing : Apr 5, 2021

Date of grant : May 5, 2021

Title of invention : Dedicated functional area for leg operated computer interactive device for handless people

(25) Patent Number : 2021101936

Date of filing : Apr 15, 2021

Date of grant : May 19, 2021

Title of invention : Motion planning and control algorithm for obstacle avoidance for point mobile robots

(26) Patent Number : 2021101989

Date of filing : Apr 16, 2021

Date of grant : May 19 , 2021

Title of invention : Self-tuning controller and tracking method for autonomous aerial drone

(27) Patent Number : 2021101981

Date of filing : Apr 16, 2021

Date of grant : May 26 , 2021

Title of invention : Sewage pipeline blockage and bottle neck detection using hybrid sensor and Geo-spatial data analysis

(28) Patent Number : 2021102153

Date of filing : Apr 22, 2021

Date of grant : May 26 , 2021

Title of invention : A method of tracking and managing municipal wastes using geo-spatial technology

(29) Patent Number : 2021102119

Date of filing : Apr 22, 2021

Date of grant : May 26 , 2021

Title of invention : Putralone , a novel 10 α -hydroxy-25-nor D: A friedo-oleanane triterpenoid from *Putranjiva roxburghii* (Wall)

(30) Patent Number : 2021102118

Date of filing : Apr 22, 2021

Date of grant : June 02 , 2021

Title of invention : Isolation of Saracoside – A new lignin glycoside isolated from *S. Indica*

(31) Patent Number : 2021102531

Date of filing : May 13, 2021

Date of grant : June 16 , 2021

Title of invention : Three dimensional wind, airspeed calculation and prediction model for aerial drones using deep learning

(32) Patent Number : 2021102660

Date of filing : May 15, 2021

Date of grant : June 23 , 2021

Title of invention : Navigation technique for industrial cleaning robots with multi height and width adaptability

(33) Patent Number : 2021102828

Date of filing : May 25, 2021

Date of grant : June 30 , 2021

Title of invention : Self aware continual pose estimator in act video recording and animations

(34) Patent Number : 2021102801

Date of filing : May 24, 2021

Date of grant : July 7 , 2021

Title of invention : Velocity estimation from cycle pedaling using extended Kalman filter algorithm

(35) Patent Number : 2021102847

Date of filing : May 26, 2021

Date of grant : July 7 , 2021

Title of invention : Lateral and Longitudinal displacement measurement of tire cornering stiffness of All Terrain Vehicle using Recursive Least Square technique

(36) Patent Number : 2021102841

Date of filing : May 26, 2021

Date of grant : July 21 , 2021

Title of invention : Fabrication process of textile fabric with Multimodal tactile sensor

(37) Patent Number : 2021102601

Date of filing : June 01, 2021

Date of grant : July 28 , 2021

Title of invention : Foot-operated seed and leaves pulverizer using automated thrust control technique

(38) Patent Number : 2021104072

Date of filing : July 12, 2021

Date of grant : August 25 , 2021

Title of invention : Hand shape and sign recognition from video using deep convolution network

(39) Patent Number : 2021105858

Date of filing : August 18, 2021

Date of grant : October 27 , 2021

Title of invention : Network-based deployment of IoT architecture through software defined networks

(40) Patent Number : 2021105712

Date of filing : August 17, 2021

Date of grant : November 03, 2021

Title of invention : A smart traffic monitoring IP camera system for realistic modeling of IoT networks

(41) Patent Number : 2021105856

Date of filing : August 18, 2021

Date of grant : November 03 , 2021

Title of invention : Bi-level energy management system with grid reinforcement for solar energy

(42) Patent Number : 2021105857

Date of filing : August 18, 2021

Date of grant : November 03 , 2021

Title of invention : Early detection of Denial-of-Service (DoS) attack and Deception attack in industrial cyber physical system

(43) Patent Number : 2021105871

Date of filing : August 18, 2021

Date of grant : November 03 , 2021

Title of invention : Multimode image fusion technique for automated correlation identification in medical images

(44) Patent Number : 2021106012

Date of filing : August 19, 2021

Date of grant : November 03 , 2021

Title of invention : A ranking algorithm to pick up critical scenarios of fluctuation patterns from the uncertain renewable energy production using machine learning

(45) Patent Number : 2021106243

Date of filing : August 20, 2021

Date of grant : November 03 , 2021

Title of invention : Determination of movement pattern similarity using Internet of things in congested traffic

(46) Patent Number : 2021105704

Date of filing : August 17, 2021

Date of grant : November 10 , 2021

Title of invention : Performance evaluation of a thermal insulation zirconia coated engine with low heat rejection

(47) Patent Number : 2021105706

Date of filing : August 17, 2021

Date of grant : November 10 , 2021

Title of invention : Dynamic weight assignment mechanism for determining trustworthiness of data in block chain

(48) Patent Number : 2021106662

Date of filing : August 23, 2021

Date of grant : November 10 , 2021

Title of invention : Vision based multi object tracking and localization from autonomous aerial vehicle

(49) Patent Number : 2021106658

Date of filing : August 23, 2021

Date of grant : November 17 , 2021

Title of invention : A method to refine feature vectors for combining multiple neural networks

(50) Patent Number : 2021105709

Date of filing : August 17, 2021

Date of grant : December 01, 2021

Title of invention : Convolutional neural networks based image compression for high quality multifocus fused images

(51) Patent Number : 2021106665

Date of filing : July 21, 2021

Date of grant : November 10, 2021

Title of invention : Internet of Things for uninterrupted video surveillance and tracking system

(52) Patent Number : 2021104413

Date of filing : August 23, 2021

Date of grant : May 04, 2022

Title of invention : Multi-dimensional radio source allocation scheme to cater the fluctuations of the network situations due to 5G real time dynamic traffic

INDIAN Copyrights (Granted) –

(1) Registration No. - L-102626/2021

Diary No. : 6515/2021-CO/L

Date of filing : March 12,2021

Date of grant : April 29,2021

Title: Machine Learning Classifier and Neural Modelling perspective of Echo Cardiography for Thalassemia Patients

(2) Registration No. – L-102945/2021

Diary No. – 6464/2021-CO/L

Date of filing : March 12,2021

Date of grant: May 7, 2021

Title: Enhancing video forensics system using soft computing

(3) Registration No. – L-103660/2021

Diary No. : 6518/2021-CO/L

Date of filing : March 12,2021

Date of grant : May 25,2021

Title: Discovered facts related to the distribution of Thalassemia medical records

(4) Registration No. – L-105319/2021

Diary No. : 11488/2021-CO/L

Date of filing : May 21,2021

Date of grant : July 12, 2021

Title: A navigation approach to detect indoor synchronization

(5) Registration No. – L-106149/2021

Diary No. : 12965/2021-CO/L

Date of filing : June 13,2021

Date of grant : August 09, 2021

Title: Ref-Cite-Authenticator – A methodology to verify relevance of the references in research publications– A step to curb fake citations

(6) Registration No. – L-107643/2021

Diary No. : 19293/2021-CO/L

Date of filing : August 13,2021

Date of grant : September 16, 2021

Title: Statistical assessment of health related quality of life in pediatric patients with beta thalassemia

(7) Registration No. – L-108005/2021

Diary No. : 19945/2021-CO/L

Date of filing : August 19,2021

Date of grant : September 29, 2021

Title: Human Age and Gender Identification System using MSVM and LIBSVM based on wrist, teeth and femur X-Ray images

(8) Registration No. – L-108404/2021

Diary No. : 21447/2021-CO/L

Date of filing : September 07,2021

Date of grant : October 14, 2021

Title: Oral Lesions classification using ensemble learning and deep learning techniques

(9) Registration No. – L-108502/2021

Diary No. : 21027/2021-CO/L

Date of filing : September 09,2021

Date of grant : October 21, 2021

Title: Integration of cloud services, natural language processing and machine learning techniques for knowledge discovery from clinical text

(10) Registration No. – L-109108/2021

Diary No. : 21502/2021-CO/L

Date of filing : September 07,2021

Date of grant : November 18, 2021

Title: Plant leaf disease diagnosis ,classification and enhancement for discovery accurate shading through color model

(11) Registration No. – L-109562/2021

Diary No. : 20710/2021-CO/L

Date of filing : August 29,2021

Date of grant : December 21, 2021

Title: Framework for classification of tumors using ensemble machine learning and deep learning approaches

(12) Registration No. – L-114024/2022

Diary No. : 20379/2021-CO/L

Date of filing : August 24,2021

Date of grant : April 04, 2022

Title: Plant identification based on heterogeneous features of leaf using multiclass support vector machines

(13) Registration No. – L-117010/2022

Diary No. : 82/2022-CO/L

Date of filing : January 01, 2022

Date of grant : August 12, 2022

Title: Stochastic method to achieve security using time variant key mechanism

(14) Registration No. – L-123646/2023

Diary No. : 20721/2022-CO/L

Date of filing : October 22, 2022

Date of grant : June 12, 2023

Title: Study of invitro anti leishmanial activities of lignan isolated from Indian medicinal plant Bhumi Amla

(15) Registration No. – L-130635/2023

Diary No. : 7146/2023-CO/L

Date of filing : March 16, 2023

Date of grant : July 25, 2023

Title: PLC based energy management conveyer system

(16) Registration No. – L-136223/2023

Diary No. : 25075/2022-CO/L

Date of grant : November 15 , 2023

Title: PLC based solid waste management system

10) PH.D SUPERVISION:

Completed - 13

2014

1. **Ajay Prasad** awarded Ph.D. Degree on 26th September 2014 by Sir Padampat Singhanian University. The title of the thesis is “Access Management Using Centralized Access Policies and Monitoring in Cloud Computing”.

2. **Amrit Ghosh** awarded Ph.D. Degree on 06th October 2014 by Sir Padampat Singhanian University. The title of the thesis is “Optimization of security issues vis-à-vis Mobile IP”.

3. **Nilima Fulmare** awarded Ph.D. Degree on 06th October 2014 by Sir Padampat Singhanian University. The title of the thesis is “Modeling of human emotion using an Event-B approach and Artificial Intelligence perspective”.

4. **Sandeep Chaurasia** awarded Ph.D. Degree on 27th October 2014 by Sir Padampat Singhanian University. The title of the thesis is “Early detection of breast cancer through Supervised Machine Learning”.

2015

5. **Prateek Srivastava** awarded Ph.D. Degree on 25th March 2015 by Sir Padampat Singhanian University. The title of the thesis is “Modelling fault resistant moving sequencer based atomic broadcast in distributed systems”.

6. **Arjun Singh** awarded Ph.D. Degree on 27th March 2015 by Suresh Gyan Vihar University. The title of the thesis is “An Experimental Study towards Realizing Ant Based Resource Discovery and Mobility Aware Trust Management for Mobile Grid Systems”.

2016

7. **Jinesh Kumar Singh** awarded Ph.D. Degree on 21st December 2016 by Sir Padampat Singhanian University.. The title of the thesis is “Optimization of energy issues of routing protocol in mobile ad hoc networks”.

2017

8. **Harish Patidar** awarded Ph.D. Degree on 24th October 2017 by Sir Padampat Singhanian University.. The title of the thesis is “An approach towards designing parallel graph coloring algorithm with optimum time complexity”.

2018

9. **Pradeep Laxkar** awarded Ph.D. Degree on 25th June 2018 by Sir Padampat Singhanian University.. The title of the thesis is “Network Intrusion Detection System using Spark's Scalable Machine Learning Library”.

2019

10. **Manish Tiwari** awarded PhD degree on 29th June 2019 by Mewar University. The title of the thesis is “An approach towards realizing liver cancer diagnosis using machine learning techniques”
(Jointly with Dr Jyoti S. Raghav, Department of Mathematics, Mewar University, Rajasthan, INDIA)

2021

11. **Kuntal Barua** awarded PhD degree on 19th April 2021 by Sangam University, The title of the thesis is “Designing a critical thinking design model for assessing quality of Higher Education Institutions (HEIs) in India”. (Jointly with Prof K P Yadav, Vice Chancellor, Sangam University, Bhilwara , Rajasthan, INDIA)

2024

12. **Manisha Mathur** awarded PhD degree on 25th June 2024 by Mewar University. The title of the thesis is “Cyber crime against woman in Rajasthan – A data analytics perspective”. (Jointly with Dr Jyoti S. Raghav, Associate Professor, Department of Mathematics, Mewar University, Rajasthan, INDIA)

13. **Harish Tiwari** awarded Ph.D. Degree on 30th August 2024 by Sir Padampat Singhanian University. The title of the thesis is “Utilization of Various Data Mining Classification Techniques for Analysis of Lung Cancer”. (Jointly with Prof Alok Kumar , Head of the department of Computer Science and Engineering, Sir Padampat Singhanian University, Rajasthan, INDIA)

11) CERTIFICATIONS (COURSERA)

A. Course- **Philosophy and the Sciences – Introduction to the Philosophy of Physical Sciences**
Date of Completion: April 11, 2020
Institute: The University of Edinburgh

B. Course- **Mindware : Critical Thinking for the Information Age**
Date of Completion: April 11, 2020
Institute: University of Michigan

C. Course - **Philosophy and the Sciences – Introduction to the Philosophy of Cognitive Sciences**
Date of Completion: April 13, 2020
Institute: The University of Edinburgh

D. Course- **Drug Discovery**
Date of Completion: April 14, 2020
Institute: University of California, San Diego

E. Course- **Introduction to Mathematical Thinking**

Date of Completion: April 14, 2020

Institute: Stanford University

F. Course- **Introduction to Psychology**

Date of Completion: April 15, 2020

Institute: Yale University

G. Course- **Emotions : A Philosophical Introduction**

Date of Completion: April 20, 2020

Institute: Universitat Autònoma de Barcelona

H. Course - **Meditation: A way to achieve your goals in your life**

Date of Completion : April 28, 2020

Institute : Korea Advanced Institute of Science and Technology (KAIST)

12) ACADEMIC DEGREES :

A . HIGHER DOCTORATE DEGREE

D . Litt :

University - Sambalpur University (State Govt. University , NAAC-A accredited), Odisha

Title :- **Discovered facts related to strategic market management : An Artificial Neural Network and Stochastic Process perspective**

Supervisor: **Prof. Biswajit Satpathy**, Department of Business Administration, Sambalpur University

Registration Number : **04 / 2020 / D.Litt**

Thesis submission Date : **March 28, 2022 ;**

Open Viva-voce Date : **October 19, 2022**

Date of award of D.Litt degree : **October 28 , 2022**

(Vide Notification No – 7/27/E.C-III dated 28/10/2022)

Date of receiving D.Litt certificate : **April 12, 2023** (Sambalpur University 32nd Convocation)

D . Sc :

University - Sambalpur University (State Govt. University , NAAC-A accredited), Odisha

Title :- **Stochastic Process and Discovered Facts in Environmental Science**

Supervisor: Self-guide

Registration Number : **04 / 2022 / D.Sc**

Registration Year : effective from 2022 (Vide Notification No – 01321/EG-III dated 24/03/2023)

B. DOCTORATE :

Topic- “Approach towards realizing time variant key in cryptography” PhD Supervisors- Prof. (Dr.) Atal Chaudhuri and Prof. (Dr.) C. T. Bhunia					
Degree	University	Registration	Thesis Submission	Viva-Voce	Award
PhD(Engg)	Jadavpur University (State Govt. University)	19.04.2006.	27.10.2008.	10.09.2009.	22.09.2009.

C. POST GRADUATE EDUCATION :

Degree	University	Branch	Class /DGPA	Year of passing
M.E.	Maulana Abul Kalam Azad University of Technology (State Govt. University) [Formerly West Bengal University of Technology]	Computer Science and Engineering	1ST (7.54 /10)	2005

D. GRADUATE EDUCATION :

Degree	University	Branch	Class / Percentage	Year of passing
B.Tech	University of Kalyani (State Govt. University , NAAC-A accredited)	Computer Engineering	1ST (83.82%)	2003

E. BOARD CERTIFICATION :

Examination	School / Board	Branch	Class / Percentage	Year of passing
Higher Secondary Examination	Tirthapati Institution <i>West Bengal Council of Higher Secondary Education School /Board</i>	Science	1ST (73.6%)	1999
Secondary	South Point High School <i>West Bengal Board of Secondary Education</i>	Science	1ST (72.6%)	1997

13) HONORARY DEGREE :

A. Hon. D.Sc

Degree – **Doctor of Science D.Sc. h.c.(Honoris Causa)**

Date – **March 15, 2021** Certificate No - **1532021_DSchc-NSL**

Honored by – School of Advanced Medical Sciences and Technologies , Shiraz University of Medical Sciences, Shiraz, Iran

B. Hon. PhD

Degree – **Doctor of Philosophy (PhD) in Information Technology (Honoris Causa)**

Date – **April 09, 2021** Certificate No - **PDP0409132021**

Honored by – Lincoln University College , Malaysia

C. Hon. D.Eng

Degree – **Doctor of Engineering D.Eng. h.c. (Honoris Causa)**

Date – **April 25, 2021** Certificate No - **1542021HonRINSS**

Honored jointly by – Dana Brain Health Institute and Iranian Neuroscience Society (INSS) Fars Chapter

14) DETAILS OF TEACHING EXPERIENCE :

Institution	Position	Duration
Sir Padampat Singhanian University, Udaipur, Rajasthan, India	Director , Directorate of Research and Publications and Dean International Affairs and Professor / Senior Professor Department of Computer Science and Engineering	September 27, 2023 – Till date Senior Prof promotion – w.e.f. April 01, 2024
ITM (SLS) Baroda University, Vadodara, Gujarat, India	DEPUTY PROVOST (Rank : Deputy /Pro Vice Chancellor)	April 1, 2022 – September 26, 2023
Techno India NJR Institute of Technology, Udaipur, Rajasthan, India	PROVOST and Institute Endowed Distinguished Senior Chair Professor , Department of Computer Science and Engineering	October 01, 2020 – March 31, 2022
Techno India NJR Institute of Technology, Udaipur, Rajasthan, India	Executive Dean (Research and International Linkage) and Institute Distinguished Senior Chair Professor , Department of Computer Science and Engineering	November 14, 2019 – September 30, 2020
ITM Universe, Vadodara, Gujarat, India	Dean(R&D) and Senior Professor , Department of Computer Science and Engineering	July 02, 2018 – November 13, 2019
Sir Padampat Singhanian University, Udaipur,Rajasthan, India	Professor and Head , Department of Computer Science and Engineering	September 01, 2015 – June 30, 2018
Sir Padampat Singhanian University, Udaipur	Associate Professor and Head , Department of Computer Science and Engineering	July 01, 2011 – August 31, 2015
Sir Padampat Singhanian University, Udaipur	Associate Professor , Department of Computer Science and Engineering	February 02, 2010 – June 30, 2011
Bengal Institute of Technology and Management, West Bengal	Associate Professor , Department of Computer Science and Engineering	December 2008 – January 2010
Oriental Institute of Science & Technology, Bhopal	Associate Professor , Department of Computer Science and Engineering	September 2008 – November 2008
Dr.B.C.Roy Engineering College, West Bengal	Assistant Professor , Department of Computer Science and Engineering	July 2007 – August 2008
Dr.B.C.Roy Engineering College, West Bengal	Senior Lecturer , Department of Computer Science and Engineering	May 2006 – June 2007
Heritage Institute of Technology, West Bengal	Lecturer , Department of Computer Science and Engineering	August 2005 – April 2006

15) SELECTED KEYNOTE / INVITED TALKS :

(i) Invited lecture on “Automatic Variable Key (AVK) – A new trend in Information security” at Summer School Summit, Department of Physics, Banaras Hindu University, Varanasi from 16th -19th April 2008.

(ii) Invited Talk on “Human Thought Process Quantification” at Indian Institute of Technology ,Indore on 11th April 2012

(iii) Invited online lecture on “Human Dream Analysis” at the research lab of Prof J A Ware, Faculty of Computing, University of South Wales, UK on October 23, 2019

(iv) Delivered **Keynote speech** on “Computational Techniques – Is it pivotal in any field” DoSIER 2020, Visva-Bharati University (Central Univ), Aug 12-13, 2020
<http://dosier.drsiddhartha.net/keynotespeakers.html>

(v) Delivered expert research oriented lecture on “Research Directions of Computational Techniques” as a part of Research Seminar Series at Deakin University Australia on 28th August 2020

(vi) Delivered expert research oriented lecture on “Machine learning approach in agriculture” in the Visiting Scientist Trainee Programme , Lincoln University College Malaysia on 04th March 2023

(vii) Delivered expert research oriented lecture on “Applications of Artificial Intelligence in Smart Grids”, Power and Energy Laboratory, Engineering Cluster, Singapore Institute of Technology, Singapore on 11th January 2024

(viii) Acted as an expert for mid-progress PhD and Postdoc presentations in Power & Energy Lab, Singapore Institute of Technology Singapore on August 10, 2024

(ix) Delivered expert lecture on “Artificial Intelligence applications in disaster management”, Center of Disaster Preparedness, Mitigation and Management, Asian Institute of Technology, Thailand on 19th August 2024

(x) Delivered expert lecture on “Artificial Intelligence in IoT” Research Institute on IoT and Cybersecurity , National Kaohsiung University of Science and Technology, Taiwan on 24th August 2024

16) PROFESSIONAL MEMBERSHIP :

Honorary Senior Fellow – Scientific Innovation Research Group (SIRG). Egypt in 2022

Wales Institute of Digital Information in 2021

Honorary Fellow - Iranian Neuroscience Society in 2021

Fellow - Scientific Communications Research Academy (Egypt) in 2023

The Institution of Engineers (India) in 2021

Nikhil Bharat Shiksha Parisad in 2021

Royal Society of Arts (RSA) in 2020

Institution of Engineering and Technology (IET), UK in 2020

International Association of Educators and Researchers, London UK in 2019

The Association of Engineers, India in 2018

International Society for Research and Development (ISRDI) in 2018

The Institution of Electronics and Telecommunication Engineers (IETE) in 2016

The Council of Engineering & Technology, CET(I) in 2016

17) PUBLICATIONS-

A) SCI / SCIE / SSCI

Notable recent publications only

NATURE portfolio -

1. Ali-Mohammad Kamali , Milad Kazemiha, Behnam Keshtkarhesamabadi, Mohsan Daneshvari, Asadollah Zarifkar, **Prasun Chakrabarti**, Babak Kateb, Mohammad Nami “Simultaneous Transcranial and Transcutaneous Spinal Direct Current Stimulation to Enhance Athletic Performance Outcome in Experienced Boxers”, *Scientific Reports* , **11** : 19722, 2021 (DOI : 10.1038/s41598-021-99285-x)
[**Nature portfolio , IF 4.379**]

2. Umesh Kumar Lilhore, Surjeet Dalal, Neetu Faujdar, Martin Margala, **Prasun Chakrabarti**, Tulika Chakrabarti, Sarita Simaiya, Pawan Kumar, Pugazhenthana Thangaraju, Hemasri Velmurugan “Hybrid CNN-LSTM model with efficient hyperparameter tuning for prediction of Parkinson’s disease” *Scientific Reports*, **13** : 14605, 2023 (DOI : 10.1038/s41598-023-41314-y)

[Nature portfolio, IF 4.997]

3. S. Pradeep, Yogesh Kumar Sharma, Umesh Kumar Lilhore, Sarita Simaiya, Abhishek Kumar, Sachin Ahuja, Martin Margala, **Prasun Chakrabarti**, Tulika Chakrabarti, “Developing an SDN security model (EnsureS) based on lightweight service path validation with batch hashing and tag verification”, *Scientific Reports*, **13**, 17381 : 2023 (DOI : 10.1038/s41598-023-44701-7)

[Nature portfolio, IF 4.997]

4. Sasikaladevi Natarajan, Pradeepa Sampath, Revathi Arunachalam, Vimal Shanmuganathan, Gaurav Dhiman, **Prasun Chakrabarti**, Tulika Chakrabarti, Martin Margala, “Early diagnosis and meta-agnostic model visualization of tuberculosis based on radiography images”, *Scientific Reports*, **13**: 22803, 2023 (DOI : 10.1038/s41598-023-49195-x)

[Nature portfolio, IF 4.997]

5. Aniket Vatsa, Ananda Shankar Hati, Prashant Kumar, Martin Margala, **Prasun Chakrabarti**, “Residual LSTM-based short duration forecasting of polarization current for effective assessment of transformers insulation”, *Scientific Reports*, 2024 (DOI : <https://doi.org/10.1038/s41598-023-50641-z>)

[Nature portfolio, IF 4.997]

6. Lokesh Gupta, Rakesh Kumar, Tulika Chakrabarti, **Prasun Chakrabarti**, Martin Margala, “Data analytics and modelling in context to determination of moisture susceptibility of reclaimed asphalt foamed bituminous mix”, *Scientific Reports*, 2024 (DOI : <https://doi.org/10.1038/s41598-024-55853-5>)

[Nature portfolio, IF 4.997]

7. Kamran Aziz, Donghong Ji, **Prasun Chakrabarti**, Tulika Chakrabarti, Muhammad Shahid Iqbal, Rashid Abbasi, “Unifying Aspect-Based Sentiment Analysis BERT and Multi-Layered Graph Convolutional Networks for Comprehensive Sentiment Dissection”, *Scientific Reports*, 2024 (accepted)

[Nature portfolio, IF 4.997]

8. S Natarajan, Prasun Chakrabarti and Martin Margala, “Robust diagnosis and meta visualizations of plant diseases through deep neural architecture with explainable AI”, *Scientific Reports*, 2024 (DOI : <https://doi.org/10.1038/s41598-024-64601-8>)

[Nature portfolio, IF 4.997]

IEEE Transactions

9. Xin Wang, Yuhao Zhou, Tingwen Huang, **Prasun Chakrabarti**, "Event-triggered Adaptive Fault-tolerant Control for a Class of Nonlinear Multiagent Systems with Sensor and Actuator Faults", *IEEE*

Transactions on Circuits and Systems I: Regular Papers, 2022
(DOI :10.1109/TCSI.2022.3192046)

[**IEEE** , **IF 4.14**]

10. Yue-Yue Tao, Zheng-Guang Wu, Tingwen Huang, **Prasun Chakrabarti** , Choon Ki Ahn, "Asynchronous event-triggered output-feedback control of singular Markov jump systems", *IEEE Transactions on Cybernetics* , 2023 (DOI : 10.1109/TCYB.2022.3217197) [**IEEE** , **IF 11.8**]

11. L. Wang, Z. -G. Wu, Tingwen Huang , **Prasun Chakrabarti**, "Stabilization of Delayed Boolean Networks Using Constrained State Pinning Control," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 2023 (DOI : 10.1109/TSMC.2022.3203699) [**IEEE** , **IF 11.471**]

12. Yifang Zhang, Zheng-Guang Wu, Peng Shi, Tingwen Huang, **Prasun Chakrabarti** , "Quantization-based Event-triggered Consensus of Multi-agent Systems against Aperiodic DoS Attacks", *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 2023 (DOI : 10.1109/TSMC.2022.3232413) [**IEEE** , **IF 11.471**]

13. Shunsuke Ono, Xin Wang, Tingwen Huang, **Prasun Chakrabarti** , Juergen Kurths, "Cooperative Learning of Multi-agent Systems via Reinforcement Learning", *IEEE Transactions on Signal and Information Processing over Networks* , 2023 (DOI : 10.1109/TSIPN.2023.3239654) [**IEEE** , **IF 3.301**]

14. Liqing Wang, Zheng-Guang Wu, Tingwen Huang, **Prasun Chakrabarti** , Wei-Wei Che, "Finite-Time Observability of Boolean Networks With Markov Jump Parameters Under Mode-Dependent Pinning Control," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 2023 (DOI: 10.1109/TSMC.2023.3304843) [**IEEE** , **IF 11.471**]

Other reputed SCI /SCIE/ SSCI papers with reputed publishers –

15. Tuan Pham Van, Dung Vo Tien, Zbigniew Leonowicz , Michal Jasiński , Tomasz Sikorski , **Prasun Chakrabarti** "Online Rotor And Stator Resistance Estimation Based On Artificial Neural Network Applied In Sensorless Induction Motor Drive", *Energies* , **13** : 4946 , 2020 (<http://doi.org/10.3390/en13184946>) [**MDPI** , **IF 3.004**]

16. Prince, Ananda Shankar Hati , **Prasun Chakrabarti** , Jemal Hussein , Ng Wee Keong , "Development of Energy Efficient Drive for Ventilation System using Recurrent Neural Network" , *Neural Computing and Applications* , **33** : 8659 ,2021 (<https://doi.org/10.1007/s00521-020-05615-x>) [**SPRINGER** , **IF 5.606**]

17. Papiya Debnath, Pankaj Chittora, Tulika Chakrabarti, **Prasun Chakrabarti**, Zbigniew Leonowicz, Michal Jasinski , Radomir Gono, Elzbieta Jasińska, “Analysis of earthquake prediction in India using supervised machine learning classifiers”, *Sustainability* ,**13**(2):971 , 2021 (<https://doi.org/10.3390/su13020971>) [MDPI , IF 3.251]

18. Pankaj Chittora, Sandeep Chaurasia, **Prasun Chakrabarti**, Gaurav Kumawat, Tulika Chakrabarti, Zbigniew Leonowicz, Michael Jaisinski, Lukasz Jaisinski, Radomir Gono, Elzbieta Jaisinski, Vadim Bolshev, “Prediction of Chronic Kidney Disease - A Machine Learning perspective”, *IEEE Access*, **9** : 17312-17334,2021 (<http://doi.org/10.1109/ACCESS.2021.3053763>) [IEEE , IF 3.367]

19. Imayanmosha Wahlang, Arnab Kumar Maji, Goutam Saha, **Prasun Chakrabarti**, Michał Jasiński , Zbigniew Leonowicz, Elzbieta Jasinska, “Deep Learning methods for classification of certain abnormalities in Echocardiography”, *Electronics* ,**10** :495,2021 (<https://doi.org/10.3390/electronics10040495>) [MDPI IF 2.397]

20. Rajkumar Soni , **Prasun Chakrabarti** , Zbigniew Leonowicz , Michal Jasinski , Krzysztof Wiecek , Vadim Bolshev, “Estimation of Life Cycle of Distribution Transformer in Context to Furan Content Formation , Pollution Index and Dielectric Strength”, *IEEE Access*, **9** : 37456, 2021 (<https://doi.org/10.1109/ACCESS.2021.3063551>) [IEEE , IF 3.367]

21. Yogendra Singh Solanki, **Prasun Chakrabarti**, Michal Jasinski , Zbigniew Leonowicz, Vadim Bolshev , Alexander Vinogradov, Elzbieta Jasinska, Radomir Gono, Mohammad Nami , “A Hybrid Supervised Machine Learning Classifier System for Breast Cancer Prognosis Using Feature Selection and Data Imbalance Handling Approaches”, *Electronics* ,**10**(6) :699,2021 (<https://doi.org/10.3390/electronics10060699>) [MDPI , IF 2.397]

22. Siddhartha Bhattacharyya, Tulika Dutta, Sandip Dey, Somnath Mukhopadhyay, **Prasun Chakrabarti** , “Hyperspectral Multi-level Image Thresholding using Qutrit Genetic Algorithm Expert Systems With Applications”, *Expert Systems with Applications*, **181** : 115107, 2021 (<https://doi.org/10.1016/j.eswa.2021.115107>) [ELSEVIER , IF 6.954]

23. Ashish Kumar Sinha, Ananda Shankar Hati , Mohamed Benbouzid , **Prasun Chakrabarti** , “ANN-based Pattern Recognition for Induction Motor Broken Rotor Bar Monitoring under Supply Frequency Regulation”, *Machines* ,**9**(5):87,2021 (<https://doi.org/10.3390/machines9050087>) [MDPI , IF 2.428]

24. Sergey Senkevich, Vadim Bolshev, Ekaterina Ilchenko, **Prasun Chakrabarti**, Michał Jasiński, Zbigniew Leonowicz , Mikhail Chaplygin, "Elastic Damping Mechanism Optimization by Indefinite Lagrange Multipliers", *IEEE Access*, **9** :71784,2021 (DOI- 10.1109/ACCESS.2021.3078609) [IEEE , IF 3.367]

25. Akhilesh Kumar Sharma, Gaurav Aggarwal, Sachit Bhardwaj, **Prasun Chakrabarti**, Tulika Chakrabarti, Jemal Hussain, Siddhartha Bhattarcharyya, Richa Mishra, Anirban Das, Hairulnizam

Mahdin, “Classification of Indian Classical Music with Time-Series Matching using Deep Learning”, *IEEE Access* , **9** : 102041-102052 , 2021 (DOI- 10.1109/ACCESS.2021.3093911)

[IEEE , IF 3.367]

26. Tapan Behl, Anuja Singh ,Aayush Sehgal ,Sukhbir Singh , Neelam Sharma, Tanveer Naved, Saurabh Bhatia, Ahmed Al-Harrasi, **Prasun Chakrabarti**, Lotfi Aleya,Simona Bungau “Mechanistic Insights into the Role of B Cells in Rheumatoid Arthritis”, *International Immunopharmacology*, **99** : 108078 , 2021 (<https://doi.org/10.1016/j.intimp.2021.108078>)

[ELSEVIER, IF 4.932]

27. Zuhaib Ashfaq Khan, Hafiz Husnain Raza Sherazi , Mubashir Ali, Muhammad Ali Imran, Ikram Ur Rehman, **Prasun Chakrabarti** , “Designing Wind Energy Harvester for Connected Vehicles in Green Cities”, *Energies* , **14**(17) :5408, 2021 (<https://doi.org/10.3390/en14175408>)

[MDPI , IF 3.004]

28. Abrar Ahmed Chhipa , Vinod Kumar, R. R. Joshi, **Prasun Chakrabarti**, Michal Jaisinski, Alessandro Burgio, Zbigniew Leonowicz, Elzbieta Jasinska, Rajkumar Soni, Tulika Chakrabarti, “Adaptive Neuro-fuzzy Inference System Based Maximum Power Tracking Controller for Variable Speed WECS”, *Energies* ,**14**(19) :6275, 2021 (<https://doi.org/10.3390/en14196275>)

[MDPI , IF 3.004]

29. Vivek Jain , **Prasun Chakrabarti** , Massimo Mitolo , Zbigniew Leonowicz, Michal Jasinski , Alexander Vinogradov, , Vadim Bolshev , “A Power-Efficient Multichannel Low-Pass Filter Based on the Cascaded Multiple Accumulate Finite Impulse Response (CMFIR) Structure for Digital Image Processing”, *Circuits, Systems and Signal Processing* , 2022 (<http://doi.org/10.1007/s00034-022-01960-5>)

[SPRINGER, IF 2.225]

30. Akhilesh Kumar Sharma , Shamik Tiwari, Gaurav Aggarwal, Nitika Goenka, Anil Kumar, **Prasun Chakrabarti**, Tulika Chakrabarti, Radomir Gono, Zbigniew Leonowicz, Michal Jasiński , “Dermatologist-Level Classification of Skin Cancer Using Cascaded Ensembling of Convolutional Neural Network and Handcrafted Features Based Deep Neural Network”, *IEEE Access* , **10** : 17920-17932, 2022 (<https://doi.org/10.1109/ACCESS.2022.3149824>)

[IEEE , IF 3.900]

31. Tanima Bhattacharya, Debashrita Das, Giselle A. Borges e Soares, **Prasun Chakrabarti**, Zhaoquan Ai, Hitesh Chopra, Alexandru Madalin Hasan , Simona Cavalu , “Novel Green Approaches for the Preparation of Gold Nanoparticles and Their Promising Potential in Oncology”, *Processes* , **10**(2) : 426, 2022 (<https://doi.org/10.3390/pr10020426>)

[MDPI , IF 3.352]

32. Imayanmosha Wahlang, Arnab Kumar Maji , Goutam Saha, **Prasun Chakrabarti**, Michal Jasinski , Zbigniew Leonowicz, Elzbieta Jasinska , “Brain Magnetic Resonance Imaging Classification using Deep Learning Architectures with gender and age” , *Sensors* , **22** :1766, 2022 (<https://doi.org/10.3390/s22051766>)

[MDPI , IF 3.847]

33. S. Hemalatha, Pravin R. Kshirsagar, Hariprasath Manoharan, N. Vasantha Gowri, A. Vani, Sana Qaiyum, P. Vijayakumar, Vineet Tirth, Sulaima Lebbe Abdul Haleem, **Prasun Chakrabarti** and Dawit Mamiru Teresa “Novel Link Establishment Communication Scheme against Selfish Attack Using Node Reward with Trust Level Evaluation Algorithm in MANET” , *Wireless Communications and Mobile Computing* , 2022 (<https://doi.org/10.1155/2022/6776378>) [**Wiley /Hindawi , IF 2.146**]

34. M Vasaghi , S Z Mousavi, M Owrangi, M Zadeh, Ali Kamali, Mehdi Dehghani, **Prasun Chakrabarti**, Mohammad Nami , “Neural Correlates in Functional Brain Mapping among Breast Cancer Survivors Receiving Different Chemotherapy Regimens; a qEEG/HEG – based Investigation”, *Japanese Journal of Clinical Oncology*, 2022 (<https://doi.org/10.1093/jjco/hyac121>) [**Oxford Academic , IF 3.019**]

35. Maryam Owrangi, Mohammad Javad Gholamzadeh, Maryam Vasaghi Gharamaleki, Seyedeh Zahra Mousavi, Ali-Mohammad Kamali, Mehdi Dehghani, **Prasun Chakrabarti** , Mohammad Nami , “Comparative analysis of the chemotherapy-related cognitive impairments in patients with breast cancer: a community-based research”, *Cancer Investigation*, 2022 (<https://doi.org/10.1080/07357907.2022.2106489>) [**Taylor and Francis, IF 2.368**]

36. Hariprasath Manoharan, Radha Krishna Rambola, Pravin R. Kshirsagar, **Prasun Chakrabarti**, Jarallah Alqahtani, Quadri Noorulhasan Naveed, Saiful Islam, Walelign Dinku Mekuriyaw, "Aerial Separation and Receiver Arrangements on Identifying Lung Syndromes Using the Artificial Neural Network", *Computational Intelligence and Neuroscience*, 2022 (<https://doi.org/10.1155/2022/7298903>) [**Hindawi , IF 3.120**]

37. Abrar Ahmed Chhipa, **Prasun Chakrabarti**, Vadim Bolshev , Tulika Chakrabarti , Gennady Samarin, Alexey N. Vasiyev, Sandeep Ghosh, Alexander Kudryavtsev, “Modeling and Control Strategy of Wind Energy Conversion System with Grid-Connected Doubly Fed Induction Generator”, *Energies* , **15**, 6694, 2022 (<https://doi.org/10.3390/en15186694>) [**MDPI , IF 3.252**]

38. Surjit Singh , Srete Nikolovski , **Prasun Chakrabarti**, “GWLBC: Grey Wolf Optimization based Load Balanced Clustering for Sustainable WSNs in Smart City Environment”, *Sensors*, **22(19)** : 7113; 2022 (<https://doi.org/10.3390/s22197113>) [**MDPI , IF 3.847**]

39. Khalid K. Ali, M. S. Mehanna, M. Ali Akbar, **Prasun Chakrabarti**, "Analytical Soliton Solutions of the Coupled Radhakrishnan-Kundu-Lakshmanan Equation via Three Techniques", *Journal of Mathematics*, 2022. (<https://doi.org/10.1155/2022/8419403>) [**Hindawi , IF 1.555**]

40. Rinku Supakar, P Satvaya , **Prasun Chakrabarti** , “A deep learning based model using RNN-LSTM for the Detection of Schizophrenia from EEG data”, *Computers in Biology and Medicine*, 2022 (<https://doi.org/10.1016/j.compbiomed.2022.106225>) [**ELSEVIER , IF 6.698**]

41. Chun-Ming Xu, Jia-Shuai Zhang, Ling-Qiang Kong, Xue-Bo Jin , Jian-Lei Kong, Yu-Ting Bai, Ting-Li Su, Hui-Jun Ma, **Prasun Chakrabarti** , “Prediction model of wastewater pollutant indicators based on combined normalized codec”, *Mathematics* , 2022 ([https:// doi.org/10.3390/math10224283](https://doi.org/10.3390/math10224283))
[MDPI , IF 2.592]

42. Sarita Simaiya , Rajwinder Kaur , Jasminder Kaur Sandhu , Majed Alsafyani, Roobaea Alroobaea, Deema Mohammed Alsekait, Martin Margala , **Prasun Chakrabarti** , “A Novel Multistage Ensemble Approach for prediction and classification of diabetes”, *Front. Physiol. Sec. Computational Physiology and Medicine* , 2022 (<http://doi.org/10.3389/fphys.2022.1085240>) [FRONTIERS , IF 4.755]

43. Xue-Bo Jin, Zhong-Yao Wang, Wen-Tao Gong, Jian-Lei Kong , Yu-Ting Bai, Ting-Li Su, Hui-Jun Ma, **Prasun Chakrabarti**, “Variational Bayesian Network with Information Interpretability Filtering for Air Quality forecasting”, *Mathematics* , **11**(4): 837, 2023 (<https://doi.org/10.3390/math11040837>)
[MDPI , IF 2.592]

44. Aniket Vatsa, Ananda Shankar Hati , Vadim Bolshev , Alexander Vinogradov, Vladimir Panchenko, **Prasun Chakrabarti** , “Deep Learning-Based Transformer Moisture Diagnostics Using Long Short-Term Memory Networks”, *Energies* , **16**(5) : 2382, 2023 (<https://doi.org/10.3390/en16052382>)
[MDPI , IF 3.252]

45. Thirumalai Selvan C , Vadim Bolshev , Siva Shankar S, Tulika Chakrabarti, **Prasun Chakrabarti**, Vladimir Anatolyevich Panchenko, Igor Yudaev, Yuliia Daus, Optimized hierarchical tree deep convolutional neural network of a tree based workload prediction scheme for enhancing power efficiency in cloud computing, *Energies* , **16**(6), 2900; 2023 (<https://doi.org/10.3390/en16062900>)
[MDPI , IF 3.252]

46. Nikhat Parveen , Bhu Thanh Hung, **Prasun Chakrabarti** , Amjan Shaik , “Twitter Sentiment Analysis using hybrid gated attention recurrent network", *Journal of Big Data* , **10**, 50,2023
(<https://doi.org/10.1186/s40537-023-00726-3>) [SPRINGER , IF 10.835]

47. R I Minu, Martin Margala , Siva Shankar S, **Prasun Chakrabarti** , G. Nagarajan, “Early-stage Esophageal Cancer detection using hybrid quantum CNN”, *Soft Computing* , 2023
(<https://doi.org/10.1007/s00500-023-08333-3>) [SPRINGER, IF 3.732]

48. Tang Zhengxia , Zakia Batool , Sajjad Ali , Mohammad Haseeb, Vipin Jain, Syed Muhammad Faraz Raza , **Prasun Chakrabarti** , “Impact of technology on the relation between disaggregated energy consumption and CO2 emission in populous countries of Asia”, *Environmental Science and Pollution Research* , 2023 (<https://doi.org/10.1007/s11356-023-26980-9>)
[SPRINGER , IF 5.190]

49. Malathy Jawahar, L Jani Anbarasi, Graceline Jasmine S, Febin Daya J.L, Vinayakumar Ravi , **Prasun Chakrabarti** , “Trs-net tropical revolving storm disasters analysis and classification based on

multispectral images using 2-d deep convolutional neural network”, *Multimedia Tools and Applications* , 2023. (<https://doi.org/10.1007/s11042-023-15450-6>) [**SPRINGER , IF 3.000**]

50. Prasanalakshmi Balaji , Bui Thanh Hung , **Prasun Chakrabarti** , Tulika Chakrabarti , Ahmed Elngar , Rajanikanth Aluvalu , “A Novel Artificial Intelligence-Based Predictive Analytics Technique to Detect Skin Cancer”, *PeerJ Computer Science* ,2023 (<https://doi.org/10.7717/peerj-cs.1387>) [**PeerJ , IF 2.41**]

51. S Suresh Kumar, Martin Margala, Siva Shankar, **Prasun Chakrabarti** , “A novel weight-optimized LSTM for dynamic pricing solutions in e-commerce platforms based on customer buying behavior”, *Soft Computing* ,2023. (<https://doi.org/10.1007/s00500-023-08729-1>) [**SPRINGER , IF 3.732**]

52. S Siva Shankar , Bui Thanh Hung , **Prasun Chakrabarti** , Tulika Chakrabarti , Gayatri Parasa, “A novel optimization based deep learning with artificial intelligence approach to detect intrusion attack in network system”, *Education and Information Technologies* , 2023 (<https://doi.org/10.1007/s10639-023-11885-4>) [**SRPINGER , SSCI , IF 5.5**]

53. Sudheer Mangalampalli ,Sangram Keshari Swain, Tulika Chakrabarti, **Prasun Chakrabarti**, Ganesh Reddy Karri, Martin Margala, Bhuvan Unhelkar, Sivaneasan Bala Krishnan ,“Prioritized Task Scheduling algorithm in Cloud Computing using Cat Swarm Optimization”, *Sensors* , 23 : 6155, 2023 (<https://doi.org/10.3390/s23136155>) [**MDPI , IF 3.847**]

54. Shyam Bihari Goyal , Piyush Pant , Anand Singh Rajawat, **Prasun Chakrabarti** , Pradeep Bedi, Ayodeji Olalekan Salau , “Machine learning–based approach to predict ice meltdown in glaciers due to climate change and solutions”, *Environmental Science and Pollution Research* , 2023 (<https://doi.org/10.1007/s11356-023-28466-0>) [**SPRINGER , IF 5.190**]

55. Nagendra Singh , Tulika Chakrabarti, **Prasun Chakrabarti**, Martin Margala,Amit Gupta, S Phani Praveen, Sivaneasan Bala Krishnan, Bhuvan Unhelkar, “Novel Heuristic Optimization Technique for Solution of ELD and EELD Problem”, *Electronics* , 12(13), 2921, 2023 (<https://doi.org/10.3390/electronics12132921>) [**MDPI , IF 2.900**]

56. Nagendra Singh , Tulika Chakrabarti, **Prasun Chakrabarti** , Martin Margala, Amit Gupta, Sivaneasan Bala Krishnan, Bhuvan Unhelkar , “A novel PSO used for the optimization of multi-objective economic emission dispatch”, *Electronics* , 12 : 2960 ,2023 (<https://doi.org/10.3390/electronics12132960>) [**MDPI , IF 2.900**]

57. M. M. Yamuna Devi, J. Jeyabharathi, S. Kirubakaran, Sreekumar Narayanan, T. Srikanth , **Prasun Chakrabarti** , “Efficient segmentation and classification of the lung carcinoma via deep learning”, *Mutimedia Tools and Applications*, 2023 (<https://doi.org/10.1007/s11042-023-17082-2>) [**SPRINGER , IF 3.000**]

58. Sana Qaiyum , Martin Margala , Pravin R Kshirsagar , **Prasun Chakrabarti** , Kashif Irshad, “Energy Performance Analysis of Photovoltaic Integrated with Microgrid Data Analysis Using Deep Learning Feature Selection and Classification Techniques”, *Sustainability*, 15(14) :11081, 2023 (<https://doi.org/10.3390/su151411081>) [MDPI, IF 3.889]
59. Md Asif Hussain, Ananda Shankar Hati , **Prasun Chakrabarti** , Bui Thanh Hung, Vadim Bolshev, Vladimir Panchenko , “DSVM based Model Free Predictive Current Control (MFPC) of Induction Motor”, *Energies* , 16(15) :5657, 2023 (<https://doi.org/10.3390/en16155657>) [MDPI , IF 3.252]
60. Kirti Kumari , Piyush Kashyap , **Prasun Chakrabarti** , “Germination and probiotic fermentation: a way to enhance nutritional and biochemical properties of cereals and millets”, *Food Science and Biotechnology*, 2023 (<https://doi.org/10.1007/s10068-023-01401-2>) [SPRINGER , IF 3.231]
61. Nagendra Singh , Tulika Chakrabarti , **Prasun Chakrabarti** , Vladimir Panchenko , Dmitry Budnikov, , Igor Yudaev , Vadim Bolshev, “Analysis of Heuristic Optimization Technique Solutions for Combined Heat–Power Economic Load Dispatch”, *Applied Sciences* , 13 : 10380,2023 (<https://doi.org/10.3390/app131810380>) [MDPI , IF 2.7]
62. Jerart Julius Lawrence, Vimal Shanmuganathan, Rajesh Manoharan, Sitharthan Ramachandran, Moustafa H Aly, **Prasun Chakrabarti** , “Next Generation WDM-Radio over Fiber Passive Optical Network: Deep Neural Network based Performance Analysis”, *Optical and Quantum Electronics*, 2023 (<https://doi.org/10.1007/s11082-023-05455-8>) [SPRINGER , IF 2.794]
63. Gaurav Kumawat, Santosh Kumar Viswakarma, **Prasun Chakrabarti** , Pankaj Chittora, Tulika Chakrabarti , Jerry Chun-Wei Lin, “Prognosis of Cervical Cancer Disease by Applying Machine Learning Techniques”,*Journal of Circuits, Systems, and Computers*, 32(1),2023 (<https://doi.org/10.1142/S0218126623500196>) [World Scientific , IF 1. 33]
64. Xue-Bo Jin, Zhong-Yao Wang, Jian-Lei Kong , Yu-Ting Bai, Ting-Li Su, Hui-Jun Ma, **Prasun Chakrabarti** , “Deep spatio-temporal graph network with self-optimization for air quality prediction”, *Entropy* , 25 : 247, 2023 (<https://doi.org/10.3390/e25020247>) [MDPI , IF 2.738]
65. Sudheer Mangalampalli , Ganesh Reddy Karri, Amit Gupta, Tulika Chakrabarti, Sri Hari Nallamala, **Prasun Chakrabarti** , Bhuvan Unhelkar, Martin Margala , “Fault tolerant Trust based task scheduling algorithm using Harris Hawks optimization in Cloud Computing”, *Sensors*, 23(18) : 8009, 2023 (<https://doi.org/10.3390/s23188009>) [MDPI, IF 3.847]
66. Sudheer Mangalampalli , Syed Shakeel Hashmi , Amit Gupta ,Ganesh Reddy Karri, Tulika Chakrabarti , **Prasun Chakrabarti** , Martin Margala , “Multi Objective Prioritized workflow scheduling using Deep reinforcement based Learning in Cloud Computing” *IEEE Access* , 2024 (<https://doi.org/10.1109/ACCESS.2024.3350741>) [IEEE, IF 3.900]

67. K. Vijayan , Pravin R. Kshirsagar, Shrikant Vijayrao Sonekar, **Prasun chakrabarti** , Bhuvan Unhelkar, Martin Margala, “Optimizing IoT-enabled WSN routing strategies using whale optimization-driven multi-criterion correlation approach employs the reinforcement learning agent”, *Optical and Quantum Electronics* , **56**:568, 2024 (<https://doi.org/10.1007/s11082-023-06269-4>)
[**SPRINGER, IF 2.794**]

68. Panem Charanarur , Bui Thanh Hung, **Prasun Chakrabarti** , S Siva Shankar , “Design optimization-based software-defined networking scheme for detecting and preventing attacks” *Multimedia Tools and Applications* , 2024 (<https://doi.org/10.1007/s11042-024-18466-8>)
[**SPRINGER , IF 3.000**]

69. G Nagarajan , Martin Margala , Siva Shankar S, **Prasun Chakrabarti** , R I Minu , “A trust-centric approach to intrusion detection in edge networks for medical internet of thing Ecosystems”,*Computers and Electrical Engineering* , 2024 (<https://doi.org/10.1016/j.compeleceng.2024.109129>)
[**ELSEVIER , IF 4.152**]

70. Xiaohan Chen, Yehui Zhao , Kuan Liu , Guangming Wang , Yue Song , **Prasun Chakrabarti** , “Shifting quality analysis of unmanned tractor equipped with series hydro-mechanical transmission”, *Transactions of the Canadian Society for Mechanical Engineers* , 2024
(<https://doi.org/10.1139/tcsme-2023-0123>) [**Canadian Science Publishing , IF 0.900**]

71. Pradeepa Sampath, Elizabeth Jomy, Ramya Kalyanaraman, Vimal Shamuganathan, Ruben Gonzalez Crespo, **Prasun Chakrabarti** , "Detecting the Medical plant association from PubMed using hypergraph-based clustering with dominating set". *Information Technology and Control* , 2024
(accepted) [**KTU press , IF 1.200**]

72. V Sreenivas , Sivaneasan Bala Krishnan , Suvarna Vani , **Prasun Chakrabarti** , “Twin Attention based multi-task convolution bidirectional long short term memory for facial expression recognition”, *Multimedia Tools and Applications* , 2024 (<https://doi.org/10.1007/s11042-024-19201-z>)
[**SPRINGER , IF 3.000**]

73. Mong-Fong Horng , Chin-Shiuh Shieh , Fuan Ho , Nguyen Thanh Tuan , **Prasun Chakrabarti** , “Open-Set Recognition in Unknown DDoS Attacks Detection with Reciprocal Points Learning”, *IEEE Access* , 2024 (<https://doi.org/10.1109/ACCESS.2024.3388149>) [**IEEE, IF 3.900**]

74. Jeetendra Kumar , Rashmi Gupta , Suvarna Sharma, Tulika Chakrabarti , **Prasun Chakrabarti** , Martin Margala , "IoT-Enabled Advanced Water Quality Monitoring System for Pond Management and Environmental Conservation”, *IEEE Access* , 2024
(<https://doi.org/10.1109/ACCESS.2024.3391807>) [**IEEE, IF 3.900**]

75. K. Muralidhar , S. Siva Shankar , Bhuvan Unhelkar , Tulika Chakrabarti , **Prasun Chakrabarti** , “Intelligent computational offloading for mobile-edge server computing and hybrid optimal resource allocation”, *Multimedia Tools and Applications*, 2024 (<https://doi.org/10.1007/s11042-024-18117-y>)
[SPRINGER , IF 3.000]

76. G S Pradeep Ghantasala , Bui Thanh Hung, **Prasun Chakrabarti**, Sathiyaraj R and V Pellakuri, “Artificial intelligence based machine learning algorithm for prediction of cancer in female anatomy”, *Multimedia Tools and Applications*, 2024 (<https://doi.org/10.1007/s11042-024-19655-1>)
[SPRINGER , IF 3.000]

77. Nageswara Rao Moparthi, **Prasun Chakrabarti** , Bhuvan Unhelkar , “ Malexnet-EUNET: multi-class liver cancer classification and segmentation using a hybrid deep learning system”, *Journal of Mechanics in Medicine and Biology*, 2024 (<https://doi.org/10.1142/S0219519424500349>)
[WORLD SCIENTIFIC , IF 0.8]

B) SCOPUS / Web of Science (ESCI indexed)

Selected list only

1. M A Berlin , N Upadhayaya, A Alghatani, V Tirth, S Islam, K Murali, P R Kshirsagar, Bui Thanh Hung, **Prasun Chakrabarti** , Pankaj Dadheech , “Novel hybrid artificial intelligence based algorithm to determine the effects of air pollution on human electroencephalogram signals”, *Journal of Environmental Protection and Ecology* , **22**(5): 1825-1835,2021
[SCIENTIFIC BULGARIAN COMMUNICATION , SCOPUS]

2. M Abul Hasan, K Raghuveer, P S Pandey, Ashok Kumar, Ashim Bora, Deepa Jose, P R Kshirsagar, Bui Thanh Hung, **Prasun Chakrabarti** , M M Khanapurkar , “Internet of Things and its applications in Industry 4.0 for Smart Waste Management”, *Journal of Environmental Protection and Ecology* , **22**(6): 2368-2378,2021 [SCIENTIFIC BULGARIAN COMMUNICATION , SCOPUS]

3. Negin Farhadian , Alireza Moradi , Mohammad Nami , Kamran Kazemi , Mohammad Rasoul Ghadami , Alireza Ahmadi , Reza Mohammadi , Mohammad Naseh Talebi , **Prasun Chakrabarti** , Babak Kateb , Habibolah Khazaie , “The nexus between sleep disturbances and mental health outcomes in military staff – a systematic review”, *Sleep Science* , 15(3),2022 (DOI: 10.5935/1984-0063.20220816)
[Brazilian Association of Sleep and Latin American Federation of Sleep, SCOPUS and ESCI]

4. Prashant Mishra,Vijay K. Shukla ,Grienggrai Rajchakit ,Mahesh C. Joshi , **Prasun Chakrabarti** , Anuwat Jirawattanapanit , “Study of generalized synchronization and anti-synchronization between different dimensional fractional-order chaotic systems with uncertainties”, *Differential Equations and Dynamical Systems* , 2023 (<https://doi.org/10.1007/s12591-023-00653-y>)
[SPRINGER , SCOPUS and ESCI]

5. Akhilesh Deep Arya, Sourabh Singh Verma , **Prasun Chakrabarti** , Tulika Chakrabarti , Ahmed A. Elngar , Ali-Mohammad Kamali , Mohammad Nami , “A Systematic Review on Machine Learning and Deep Learning Techniques in the Effective Diagnosis of Alzheimer’s Disease”, *Brain Informatics*, 2023 (<https://doi.org/10.1186/s40708-023-00195-7>) [**SPRINGER , SCOPUS**]

6. Ruhul Amin Hazarika, Arnab Kumar Maji , Debdatta Kandar , **Prasun Chakrabarti** , Tulika Chakrabarti , KS Jagannatha Rao, Jose Carvalho, Babak Kateb and Mohammad Nami , “An evaluation on changes in hippocampus size for cognitively normal, mild cognitive impairment, and Alzheimer’s disease patients using fuzzy membership function”, *Innovations in Systems and Software Engineering* , 2023 (<https://doi.org/10.1007/s11334-023-00529-y>) [**SPRINGER , SCOPUS , IF 1.2**]

7. Surjeet Dalal , Umesh Kumar Lilhore , Sarita Simaiya , Vivek Jaglan, Anand Mohan , Sachin Ahuja , Akshat Agrawal, Martin Margala, **Prasun Chakrabarti** , “A precise coronary artery disease prediction using Boosted C5.0”, *Journal of Autonomous Intelligence* , 6(3),2023 (<https://doi.org/10.32629/jai.v6i3.6281>) [**FRONTIER SCIENTIFIC PUBLISHING , SCOPUS**]

8. Pugazhenthian Thangaraju, Sree Sudha Ty, Hemasri Velmurugan, Eswaran Thangaraju, Kaumudi Chirumamilla, Tulika Chakrabarti , **Prasun Chakrabarti**, “A Registry-based Audit of a Current Situation of Clinical Research in COVID-19 Using Artificial Intelligence Techniques: A Systematic Review”, *Coronaviruses*, 2023 (<https://doi.org/10.2174/2666796704666230908124854>) [**BENTHAM SCIENCE , SCOPUS**]

9. Tinku Gupta, NaliniKanta Sahoo, Maddela Rambabu, M. Praveen, Shrikant Charde, Madhusmita Sahu, **Prasun Chakrabarti**, Bui Thanh Hung, Martin Margala, Bhuvan Unhelkar, Arunaksharan Narayanankutty , “New validated liquid chromatography-tandem mass spectrometry method for the determination of Dacomitinib in human plasma and its application to a pharmacokinetic study”, *Separation Science Plus* , 2023 (<https://doi.org/10.1002/sscp.202300131>) [**WILEY , SCOPUS & ESCI , IF 1.1**]

10. P Dileep Kumar Reddy, Martin Margala , S Siva Shankar , **Prasun Chakrabarti** , “Early fire danger monitoring system in smart cities using optimization-based deep learning techniques with artificial intelligence”, *Journal of Reliable Intelligent Environments* , 2024 (<https://doi.org/10.1007/s40860-024-00218-y>) [**SPRINGER , SCOPUS**]

11. Gaurav Kumawat , Puneet Mittal , Santosh Kumar Vishwakarma , **Prasun Chakrabarti** , “Building a deep learning model using colposcopy images to classify cervix types”, *African Journal of Biological Sciences*, 2024 (<https://doi.org/10.33472/AFJBS.6.13.2024.4503-4518>) [**African Science Publications, SCOPUS**]

12. R Krishna Kumari Renganathan , Sivaneasan Bala Krishnan Siva Shankar Subramanian , **Prasun Chakrabarti** , “Exploring Instagram Influencer Networks: A Graph Based Machine Learning Approach”, *Mathematical Modelling of Engineering Problems* , 2024 (<https://doi.org/10.18280/mmep.110806>) [**SCOPUS**]

13. R Krishna Kumari Renganathan , Sivaneasan Bala Krishnan , **Prasun Chakrabarti** , Siva Shankar Subramanian , “Securing online transactions: Unveiling anomalies through graph-based machine learning in fraud detection”, *Mathematics in Engineering, Science and Aerospace* , **15**(3) , pp. 1-20, 2024
[SCOPUS]

C) Other Scopus indexed / Web of Science / Springer / Elsevier (ScienceDirect)

Selected list only

1. **Prasun Chakrabarti** , Bubu Bhuyan , Atal Chaudhuri , Chandan T Bhunia , “A novel approach towards realizing optimum data transfer and Automatic Variable Key(AVK)” , *International Journal of Computer Science and Network Security*, **8**(5), pp.241-250, 2008

[Web of Science/ ESCI indexed]

2. **Prasun Chakrabarti**, Partha Sarathi Goswami , “Approach towards realizing resource mining and secured information transfer”, *International Journal of Computer Science and Network Security*, **8**(7), pp.345-350, 2008

[Web of Science/ ESCI indexed]

3. **Prasun Chakrabarti** , Anish Choudhury , Nitin Naik , Chandan T Bhunia , “Key generation in the light of mining and fuzzy rule”, *International Journal of Computer Science and Network Security*, **8**(9), pp.332-337, 2008

[Web of Science/ ESCI indexed]

4. **Prasun Chakrabarti** , S K De , S C Sikdar, “Statistical Quantification of Gain Analysis in Strategic Management” , *International Journal of Computer Science and Network Security* ,**9**(11), pp.315-318, 2009

[Web of Science/ ESCI indexed]

5. **Prasun Chakrabarti** , Jayanta Kumar Basu , T H Kim , “Business Planning in the light of Neuro-fuzzy and Predictive Forecasting”, *Communications in Computer and Information Science* , **123**, pp.283-290, 2010

[Springer –Scopus indexed]

6. Ajay Prasad , **Prasun Chakrabarti** , “Extending Access Management to maintain audit logs in cloud computing”, *International Journal of Advanced Computer Science and Applications* ,**5**(3),pp.144-147, 2014

[Web of Science/ ESCI indexed]

7. Akhilesh K Sharma , Avinash Panwar , **Prasun Chakrabarti** , S Viswakarma , “Categorization of ICMR Using Feature Extraction Strategy and MIR with Ensemble Learning”, *Procedia Computer Science*, **57**,pp.686-694,2015

[Elsevier , Scopus indexed]

8. Harish Patidar , **Prasun Chakrabarti** , “A Novel Edge Cover based Graph Coloring Algorithm”, *International Journal of Advanced Computer Science and Applications* , **8**(5),pp.279-286,2017

[Web of Science/ ESCI indexed]

9. Harish Patidar , **Prasun Chakrabarti** , Amrit Ghosh , “Parallel Computing Aspects in Improved Edge Cover based Graph Coloring Algorithm”, *Indian Journal of Science and Technology* ,**10**(25),pp.1-9,2017 [Web of Science indexed]
10. Manish Tiwari , **Prasun Chakrabarti** , Tulika Chakrabarti , “Novel work of diagnosis in liver cancer using Tree classifier on liver cancer dataset (BUPA liver disorder)” , *Communications in Computer and Information Science* , **837**, pp.155-160, 2018 [Springer –Scopus indexed]
11. K Verma , P Srivastava , **Prasun Chakrabarti** , “Exploring structure oriented feature tag weighting algorithm for web documents identification”, *Communications in Computer and Information Science* ,**837**, pp.169-180, 2018 [Springer –Scopus indexed]
12. Manish Tiwari , **Prasun Chakrabarti** , Tulika Chakrabarti , “Performance analysis and error evaluation towards the liver cancer diagnosis using lazy classifiers for ILPD”, *Communications in Computer and Information Science* , **837**, pp.161-168,2018 [Springer –Scopus indexed]
13. Harish Patidar , **Prasun Chakrabarti** , “A Tree-based Graphs Coloring Algorithm Using Independent Set”, *Advances in Intelligent Systems and Computing*, **714**, pp. 537-546, 2019 [Springer –Scopus indexed]
14. **Prasun Chakrabarti** , Biswajit Satpathy , Siddharth Bane , Tulika Chakrabarti , N S Chaudhuri , Pierluigi Siano, “Business forecasting in the light of statistical approaches and machine learning classifiers”, *Communications in Computer and Information Science* , **1045**, pp.13-21, 2019 [Springer –Scopus indexed]
15. Kunal Shah , Pradeep Laxkar , **Prasun Chakrabarti** , “A hypothesis on ideal Artificial Intelligence and associated wrong implications”, *Advances in Intelligent Systems and Computing*, **989**, pp.283-294, 2020 [Springer –Scopus indexed]
16. N Kothi , Pradeep Laxkar , A Jain , **Prasun Chakrabarti** , “Ledger based sorting algorithm”, *Advances in Intelligent Systems and Computing*, **989**, pp. 37-46, 2020 [Springer –Scopus indexed]
17. **Prasun Chakrabarti** , Tulika Chakrabarti., Mayank Sharma , D Atre, K Baba Pai , “Quantification of Thought Analysis of Alcohol-addicted persons and memory loss of patients suffering from stage-4 liver cancer”, *Advances in Intelligent Systems and Computing*, **1053**, pp.1099-1105, 2020 [Springer –Scopus indexed]
18. **Prasun Chakrabarti** , Siddharth Bane , Biswajit Satpathy ,Mark Goh, B N Datta , Tulika Chakrabarti , “Compound Poisson Process and its Applications in Business”, *Lecture Notes in Electrical Engineering*, **601**, pp.678-685,2020 [Springer –Scopus indexed]

19. **Prasun Chakrabarti** , Tulika Chakrabarti , Biswajit Satpathy , Indranil SenGupta , Jonathan Andrew Ware., “Analysis of strategic market management in the light of stochastic processes, recurrence relation, Abelian group and expectation”, *Advances in Artificial Intelligence and Data Engineering*, **1133** , pp.701-710, 2020 [Springer –Scopus indexed]

20. Neeraj Priyadarshi , A K Bhoi , A K Sharma ,P K Mallick , **Prasun Chakrabarti** , “An efficient fuzzy logic control-based soft computing technique for grid-tied photovoltaic system”, *Advances in Intelligent Systems and Computing*, **1040**,pp.131-140,2020 [Springer –Scopus indexed]

21. Neeraj Priyadarshi , A K Bhoi , S K Sahana , P K Mallick , **Prasun Chakrabarti** , Performance enhancement using novel soft computing AFLC approach for PV power system”, *Advances in Intelligent Systems and Computing*, **1040**, pp.439-448,2020 [Springer –Scopus indexed]

22. Archana Magare , Madonna Lamin , **Prasun Chakrabarti** , “Inherent Mapping Analysis of Agile Development Methodology through Design Thinking”, *Lecture Notes on Data Engineering and Communications Engineering*, **52**, pp.527-534,2020 [Springer –Scopus indexed]

23. X Wang , Tingwen Huang , **Prasun Chakrabarti** , “Adaptive RBF Neural Network Control for Nonlinear System” . In: Shi, P., Stefanovski, J., Kacprzyk, J. (eds) *Complex Systems: Spanning Control and Computational Cybernetics: Foundations. Studies in Systems, Decision and Control*, **414** , 2022 , Springer (DOI : 10.1007/978-3-030-99776-2_22) [Springer , Scopus indexed]

24. P R Kumar , K Bonthu , B Meghana , Suvarna Vani , **Prasun Chakrabarti** , “Multi-class brain tumor classification and segmentation using hybrid deep learning network (HDLN) Model”, *Scalable Computing: Practice and Experience*, 24(1), pp. 69–80,2023 (DOI : 10.12694/scpe.v24i1.2088) [Web of Science/ ESCI indexed]

25. Bui Thanh Hung, **Prasun Chakrabarti** , Prasenjit Chatterjee ,“Sentiment Analysis and Its Applications in Recommender Systems. In: Chatterjee, P., Pamucar, D., Yazdani, M., Panchal, D. (eds) *Computational Intelligence for Engineering and Management Applications. Lecture Notes in Electrical Engineering*, vol 984. Springer, Singapore, 2023 (DOI : 10.1007/978-981-19-8493-8_61) [Springer , Scopus indexed]

26. P Balaji , **Prasun Chakrabarti** , Bui Thanh Hung , “Artificial Intelligence-Based Data Analytics Techniques in Medical Imaging”. In: Saini, H.S., Sayal, R., Govardhan, A., Buyya, R. (eds) *Innovations in Computer Science and Engineering. ICICSE 2022. Lecture Notes in Networks and Systems*, vol 565. Springer, Singapore,2023 (DOI :10.1007/978-981-19-7455-7_26) [Springer , Scopus indexed]

27. Guarav Kumawat , Santosh K Viswakarma , **Prasun Chakrabarti** , “Cervical Cancer Prediction Using Machine Learning Techniques”, In: Nagar, A.K., Jat, D.S., Mishra, D.K., Joshi, A. (eds) *Intelligent Sustainable Systems . WorldS4 2023. Lecture Notes in Networks and Systems*, vol 817. Springer, Singapore (DOI : 10.1007/978-981-99-7886-1_2) [Springer , Scopus indexed]

28. Gaurav, Kumawat, Santosh Kumar Vishwakarma , **Prasun Chakrabarti** “Predictive Analysis of Cervical Cancer Using Machine Learning Techniques” In: Senjyu, T., So-In, C., Joshi, A. (eds) *Smart Trends in Computing and Communications. SmartCom 2024* 2024. *Lecture Notes in Networks and Systems*, vol 945. Springer (DOI :10.1007/978-981-97-1320-2_40) [**Springer , Scopus indexed**]

D) International Conference (IEEE Xplore / Elsevier / Springer proceedings)

Selected list only

1. Arjun Singh , **Prasun Chakrabarti** , “Ant based Resource Discovery and Mobility Aware Trust Management for Mobile Grid Systems” *In Proc. 3rd IEEE International Advance Computing Conference (IACC)* India. Feb 22-23(2013) p.637 [**IEEE Xplore**]

2. Ajay Prasad , D Gupta , **Prasun Chakrabarti** , “Monitoring Users in Cloud Computing : Evaluating the Centralized Approach” *In Proc. 2nd International Conference on Advanced Computing, Networking and Security (ADCONS)* India. Dec 15-17(2013) p.112 [**IEEE Xplore**]

3. Santosh Viswakarma , **Prasun Chakrabarti** , D Bhatnagar , A K Sharma , “Phrase Term Static Index Pruning Based on the Term Cohesiveness” *In Proc. International Conference on Computational Intelligence and Communication Networks (CICN)* India. Nov 14-16 (2014) p.551 [**IEEE Xplore**]

4. A K Sharma , Avinash Panwar , **Prasun Chakrabarti** , Santosh Viswakarma , “Categorization of ICMR Using Feature Extraction Strategy and MIR with Ensemble Learning” *In Proc. 3rd International Conference on Recent Trends in Computing (ICRTC)* India. Mar 12-13(2015) p.41 [**Elsevier**]

5. Anurag Garg , Amrit Ghosh , **Prasun Chakrabarti** , “Gain and bandwidth modification of microstrip patch antenna using DGS,” *In Proc. International Conference on Innovations in Control, Communication and Information Systems (ICICCI-2017)*, India. Aug 12-13,(2017)p.204 [**IEEE Xplore**]

6. P Kumar , Ananda Shankar Hati, S Padmanaban , Z Leonowicz , **Prasun Chakrabarti** , "Amalgamation of Transfer Learning and Deep Convolutional Neural Network for Multiple Fault Detection in SCIM," *2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)*, Madrid, Spain, 2020, pp. 1-6, (DOI: 10.1109/EEEIC/ICPSEurope49358.2020.9160712) [**IEEE Xplore**]

7. Bui Thanh Hung , **Prasun Chakrabarti** , “Parking Lot Occupancy Detection Using Hybrid Deep Learning CNN-LSTM Approach”, *In Proc. 2nd International Conference on Artificial Intelligence: Advances and Applications. Algorithms for Intelligent Systems. Springer, Singapore, 2022* (DOI :10.1007/978-981-16-6332-1_43) [**Springer**]

8. S Rajeyyagari , Bui Thanh Hung , **Prasun Chakrabarti** , "Applications of Artificial Intelligence in Biomedical Image Processing," In Proc. *Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)*, 2022, pp. 53-57, (DOI : 10.1109/ICAIS53314.2022.9742773)

[**IEEE Xplore**]

9. Amjan Shaik , Bui Thanh Hung , **Prasun Chakrabarti** , Siva Shankar S , N Parveen “A Novel Intelligent AI-based security to enhance the data communication: An Empirical Review”, In: Reddy, V.S., Prasad, V.K., Wang, J., Rao Dasari, N.M. (eds) *Intelligent Systems and Sustainable Computing. ICISSC 2022. Smart Innovation, Systems and Technologies*, vol 363. Springer, Singapore. (DOI :10.1007/978-981-99-4717-1_36)

[**Springer**]

10. Deivanai Gurusamy , **Prasun Chakrabarti** , M Chakkaravarthy , Tulika Chakrabarti , Jin Xue-Bo , “Machine Learning, Wearable, and Smartphones for Student’s Mental Health Analysis”. In: Kumar, S., Sharma, H., Balachandran, K., Kim, J.H., Bansal, J.C. (eds) *Third Congress on Intelligent Systems. CIS 2022. Lecture Notes in Networks and Systems*, vol 608. Springer, Singapore. (DOI : 10.1007/978-981-19-9225-4_25)

[**Springer**]

11. Deivanai Gurusamy, **Prasun Chakrabarti** , M Chakkaravarthy , "Machine Learning in Student Health - A Review," In Proc. *3rd International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT)*, Ghaziabad, India, 2022, pp. 1-6, (DOI : 10.1109/ICICT55121.2022.10064532)

[**IEEE Xplore**]

12. P Vidyullatha , Bui Thanh Hung , **Prasun Chakrabarti** , "An Adaptive Deep Convolution Neural Network for High Pixel Image Segmentation and Classification," In Proc. *International Conference on Innovative Data Communication Technologies and Application (ICIDCA)*, India, 2023, pp. 247-253, (DOI: 10.1109/ICIDCA56705.2023.10100246)

[**IEEE Xplore**]

13. Manisha Guduri , A K Dwivedi , Uma Maheshwari , **Prasun Chakrabarti** , Martin Margala , “Optimum Supply Voltage for High Gain Amplifier in Telemetry Circuitry for Ultra-Low Power Implantable Cardiac Pacemaker”, In Proc. *21st IEEE Interregional NEWCAS Conference* , Edinburgh, Scotland, June 26 – 28, 2023, pp. 1-5, (DOI : 10.1109/NEWCAS57931.2023.10198140)

[**IEEE Xplore**]

14. R Kanthavel , Martin Margala ,Siva Shankar S, **Prasun Chakrabarti** , R Dhaya , Tulika Chakrabarti , “Osteoarthritis Detection Using Deep Learning Based Semantic GWO Threshold Segmentation”, In Proc. *International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2023)* , Bengaluru, India , June 21-22, 2023 (DOI: 10.1007/978-981-99-6586-1_41)

[**Springer**]

15. G S P Ghantasala , Bui Thanh Hung , **Prasun Chakrabarti** , "An Approach For Cervical and Breast Cancer Classification Using Deep Learning: A Comprehensive Survey”, In Proc. *International Conference on Computer Communication and Informatics (ICCCI)*, Coimbatore, India, 2023, pp. 1-6, (DOI : 10.1109/ICCCI56745.2023.10128454)

[**IEEE Xplore**]

16. Q Ziyuan Q , D R Thinesh , Sivaneasan Balakrishnan , K T Tan , K J Tseng , **Prasun Chakrabarti** , “Advancing Low-Power Self-Sustaining IoT Sensors through CdTe PV-driven LoRa Communication”, In Proc. *49th Annual Conference of the IEEE Industrial Electronics Society (IES) IECON-2023* , Singapore , October 16-19, 2023 (DOI: 10.1109/IECON51785.2023.10312654)
[IEEE Xplore]

17. Muhammad Fahmi Amran , Thinesh Dharan, Bala Krishnan Sivaneasan, Akshay Kumar Rathore , Rens ten Klooster, Tijmen Salet, **Prasun Chakrabarti** , “Impact of Decarbonization Policies on Electric Vehicle Integration and Carbon Emission: A Singapore Case Study”, *2023 IEEE International Transportation Electrification Conference (ITEC-India)* , India , December 13-15, 2023
(DOI: 10.1109/ITEC-India59098.2023.10471494) [IEEE Xplore]

18. **Prasun Chakrabarti**, Sivaneasan Bala Krishnan , Shilpa Choudhary, "Cutting-Edge Developments in Deep Learning Applications for Breast Cancer Detection: A Comprehensive Overview," *3rd International Conference on Technological Advancements in Computational Sciences (ICTACS)*, Tashkent, Uzbekistan, pp.732 ,2023 (DOI : 10.1109/ICTACS59847.2023.10389840) [IEEE Xplore]

19. Van-Tuan Tran, Mong-Fong Horng, Chin-Shiuh Shieh , **Prasun Chakrabarti**, "Decoding barcode images with YOLOv8 and REAL-ESRGAN," 2023 International Workshop on Consumer Electronics (IWCE-2023), Taoyuan, Taiwan, December 16, 2023. (*Best Paper Award*) [IEEE Xplore]

20. Yu-Xian Lee, Chin-Shiuh Shieh, Mong-Fong Horng, Ying-Chieh Chao , **Prasun Chakrabarti**, "Multi-class attack detection in IoT using dimensionality reduction with stacked autoencoders and classification with long short-term memory networks," The 16th International Conference on Genetic and Evolutionary Computing (ICGEC-2024), Japan, August 28-29, 2024. (accepted) [Springer]

21. Venkat P Patil , Bhuvan Unhelkar , Pravin Kshirsagar , **Prasun Chakrabarti**, “Performance evaluation of boosting algorithms based machine learning models for Predicting lung cancer”, *International Conference on Computational Models for Life Sciences (ICCMLS - 24)*, 18th - 19th June 2024 , Ottawa, Canada (accepted) [ScienceNet]

22. Gaurav Kumawat, Puneet Mittal, Santosh Kumar Vishwakarma, **Prasun Chakrabarti**, Chirag Joshi, Surendra Solanki, “A Historical Overview of Cervical Cancer Screening Algorithms”, 3rd World Conference on Information Systems for Business Management ISBM 2024 , 12th -13th September 2024, Bangkok, Thailand (accepted) [Springer]

18. BOOKS -

INTERNATIONAL PRESS

1. Title- Investigations towards realizing Human Thought Process Quantification

Publisher: LAMBERT Academic Publishing

ISBN : 978-3-659-95689- 8 (1st Intl. Ed. 2016)

Authors- **Prasun Chakrabarti** and Tulika Chakrabarti

2. Title- Optimization of Security Issues vis-à-vis Mobile IP

Publisher: LAMBERT Academic Publishing

ISBN : 978-3-659-96284- 4 (1st Intl. Ed. 2016)

Authors- Amrit Ghosh and **Prasun Chakrabarti**

3. Title: Underground blast control using SMA Damper and Artificial Intelligence

Publisher: LAMBERT Academic Publishing

ISBN: 978-3-659-96464-0 (1st Intl. Ed. 2016)

Authors- **Prasun Chakrabarti** and Rohan Majumder

4. Title- Topo Inhibitory Activities of Phytoconstituent & AI based Drug Design

Publisher: LAMBERT Academic Publishing

ISBN : 978-3-659-97346- 8 (1st Intl. Ed. 2016)

Authors- Tulika Chakrabarti and **Prasun Chakrabarti**

5. Title: Vibration Control of Near Fault Earthquake – CLCD & AI Perspective

Publisher: LAMBERT Academic Publishing

ISBN: 978-3-659-95405-4 (1st Intl. Ed. 2016)

Authors- **Prasun Chakrabarti** , Rohan Majumder and Achintya Kumar Roy

6. Title: Energy Issues in Mobile Ad Hoc Networks – A Research Perspective

Publisher: LAMBERT Academic Publishing

ISBN: 978-3-330-03745-8 (1st Intl. Ed. 2017)

Authors- Jinesh Kumar Singh and **Prasun Chakrabarti**

7. Title: Intrusion Detection System using Spark's Machine Learning Library

Publisher: LAMBERT Academic Publishing

ISBN: 978-6-139-89662-2 (1st Intl. Ed. 2018)

Authors- Pradeep Laxkar and **Prasun Chakrabarti**

8. Title: Liver cancer analysis using supervised machine learning classifiers

Publisher: LAMBERT Academic Publishing

ISBN: 978-3-330-33591-2 (1st Intl. Ed. 2019)

Authors- Manish Tiwari, **Prasun Chakrabarti** and Tulika Chakrabarti

9. Title: Designing Parallel Graph Coloring Algorithm – A Research Perspective

Publisher: LAMBERT Academic Publishing

ISBN: 978-620-2-51991-5 (1st Intl. Ed. 2020)

Authors- Harish Patidar and **Prasun Chakrabarti**

10. Title: Beta Thalassemia – A Data Analytics Perspective

Publisher: LAMBERT Academic Publishing

ISBN: 978-620-2-66989-4 (1st Intl. Ed. 2020)

Authors- Aditya Maheshwari and **Prasun Chakrabarti**

NATIONAL PRESS

1. Title : Fundamentals of Soft Computing

Publisher : BPB Publications

ISBN : 978-9-386-55156-6 (1st Intl. Ed. 2017)

Authors- Kuntal Barua and **Prasun Chakrabarti**

REFERENCES :

1. **Prof. Bhuvan Unhelkar** , Professor, Muma College of Business, University of South Florida , USA
Email-id : bunhelkar@usf.edu

2. **Prof. Tingwen Huang**, *IEEE* , Professor, Science Program, Texas A&M University (Qatar campus)
Email – tingwen.huang@qatar.tamu.edu

3. **Prof. Sheng-Lung Peng** , Dean and Professor, School of Innovative Design and Management ,
National Taipei University of Business, Taiwan Email – slpeng@ntub.edu.tw

4. **Prof. Chin-Shiuh Shieh** , Professor , Department of Electronic Engineering , National Kaohsiung
University of Science and Technology, Taiwan Email - csshie@nkust.edu.tw, csshie@gmail.com

5. **Dr Sivaneasan Bala Krishnan**, Associate Professor, Engineering Cluster, Singapore Institute of
Technology, Singapore. Email – sivaneasan@singaporetech.edu.sg