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

**

1) NAME : Prof.(Dr.) Prasun Chakrabarti ,

PhD(Engg), FRSA(London), FIET(UK), FIETE, FCET(I), FISRD, FAE(I), FIAER, SMIEEE

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) PHONE : +91-6290026219

6) POSITIONS :

Current Position : Executive Dean ( Research and International Linkage )

&

Institute Distinguished Senior Chair Professor

Department of Computer Science and Engineering

Techno India NJR of Technology, Udaipur -313003, Rajasthan, INDIA

Adjunct Position : Adjunct Distinguished Professor

School of Engineering & Technology

ITM (SLS) Baroda University, Vadodara -391510,Gujarat, INDIA

Adjunct Professor

School of Engineering & Technology

Sangam University, Atoon, Bhilwara -311001, Rajasthan, INDIA

Visiting Position : Visiting Distinguished Research Professor

Smart Grids and Smart Cities Laboratory (SMARTLab)

Department of Management &amp; Innovation Systems

University of Salerno

Via Giovanni Paolo II, 132, Fisciano (SA)-84084 Italy

Term : January 01,2020 – December 31,2022

7) ACADEMIC RECOGNITIONS :

I) Elected as FELLOW, ROYAL SOCIETY OF ARTS (RSA) [ F-8199304] in 2020 and aslo FELLOW [F-70727757] , IET (UK) in 2020

II) 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”.

III) 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**](http://www.tliap.nus.edu.sg/)

IV) 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](http://www.tliap.nus.edu.sg/)

V) 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).

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

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

VIII) 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

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

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

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

XII) 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

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

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

XV) 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

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

XVII) 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.

**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 (2019-21) Reference : F.4-7/18-19/P&R/ICPR

**9) INDIAN PATENTS FILED :**

(1) File number - 202011019051

Date of filing – 05/05/2020

Title : A technique for implementing security protocol using variable key in context to key sequence, curves and AES

Inventors : **Dr Prasun Chakrabarti**, Rohini Navnath Temkar, Dr Praveen Galav, Dr. Arnab Kumar Maji, Dr Anirban Das

(2) File number - 202011007658

Date of filing – 24/02/2020

Title : A technique for implementing security protocol using variable key for Diffie –Hellman Key exchange, arbitrated protocol and cipher using imaginary variable concept

Inventors : **Dr Prasun Chakrabarti**, Manan Soni, Dr Gaurav Kumar Ameta, Keval Sanghani, Dr Richa Mishra, Rohini Temkar, Dr Achyuth Sarkar, Dr Anirban Das

(3) File number - 202011002303

Date of filing – 20/01/2020

Title : A method for security enhancement of Diffie-Hellam Key Exchange Protocol

Inventors : **Dr Prasun Chakrabarti**, Dr Gaurav Kumar, Ameta, Dr Anirban Das, Dr Neeraj Priyadarshi, Dr Harish Patidar, Dr Richa Mishra , Dr Amrit Ghosh

(4) File number - 201911048042

Date of filing – 25/11/2019

Title : Security and computational time complexity analysis of RSA with novel approach of variability concept of key

Inventors : **Dr Prasun Chakrabarti** , Dr Anirban Das , Achyuth Sarkar , Neha Solanki

(5) File number - 201911048043

Date of filing – 25/11/2019

Title : A novel technique for analysis of brute force and differential frequency attack

Inventors : **Dr Prasun Chakrabarti** , Manan Soni , Neha Solanki

(6) File number - 201911048045

Date of filing – 25/11/2019

Title : Critical thinking analysis on NIRF dataset for 2016, 2017 and 2018 in context to Higher Education Institutes (HEIs) in India

Inventors : Kuntal Barua, Dr K P Yadav , **Dr Prasun Chakrabarti**

(7) File number - 201921043666

Date of filing – 28/10/2019

Title : A novel technique to enhance security level in RSA using variable key concept

Inventors : Manan Soni, Keval Sanghani , **Dr Prasun Chakrabarti**

(8) File number - 201911019831

Date of filing – 20/05/2019

Title – A novel approach to realize business profit on the basis of linear dependency, exponential growth and moving average

Inventors – **Dr Prasun Chakrabarti**, Dr Tulika Chakrabarti, Dr Anirban Das, Naresh Patel, Richa Mishra, Achyuth Sarkar

(9) File number - 201911016439

Date of filing – 25/04/2019

Title – Business forecasting in the light of Poisson distribution and curve fitting

Inventors – Siddhant Bane, **Dr Prasun Chakrabarti**, Dr Tulika Chakrabarti, Prof Mark Goh (NUS,Singapore)

(10) File number - 201811035977

Date of filing – 25/09/2018

Title – Liver cancer diagnosis using IBK, NNge and simple cart algorithms based on BUPA liver disorder dataset

Inventors – Manish Tiwari, Dr.Tulika Chakrabarti, Mayank Sharma, Sandeep Poddar, Pradeep Laxkar, **Dr.Prasun Chakrabarti**, Dr.K Baba Pai

(11) File number -201811035978

Date of filing – 25/09/2018

Title – Liver cancer diagnosis using meta-classifiers based on BUPA liver disorder dataset

Inventors – Manish Tiwari, Dr.Tulika Chakrabarti, Mayank Sharma, Achyuth Sarkar, Dr. Shiladitya Pujari, **Dr.Prasun Chakrabarti**

(12) File number- 201811025480

Date of filing –09/07/2018 , Publication Date – 10/01/2020

Title- Liver cancer diagnosis using JRIP and ExtraTree algorithms based on BUPA liver disorder dataset

Inventors– Manish Tiwari, Dr.Tulika Chakrabarti, Dr.Prasun Chakrabarti ,Dr.Pradeep Laxkar, Osho

Upadhyay

(13) File number- 201811025476

Date of filing – 09/07/2018 , Publication Date – 10/01/2020

Title- Testing time, detection rate and accuracy estimation in context to Network Intrusion Detection in Spark’s Mlllib environment

Inventors– Dr.Pradeep Laxkar, Dr.Prasun Chakrabarti ,Achyuth Sarkar

(14) File number- 201811024043

Date of filing – 28/06/2018 , Publication Date - 03/01/2020

Title- A Novel and efficient Three-Phase Heuristic Routing Technique for Digital Microfluidic Biochip (DMFB)

Inventors– Sarit Chakraborty, Dr.Prasun Chakrabarti

(15) File number- 201811024044

Date of filing - 28/06/2018 , Publication Date - 03/01/2020

Title- Return loss, bandwidth and frequency estimation in novel approach of patch antenna using Defected Ground Structure

Inventors– Dr.Anurag Garg, Dr.Prasun Chakrabarti , Dr.Amrit Ghosh

(16) File number- 201811024046

Date of filing – 28/06/2018 , Publication Date - 03/01/2020

Title- Liver cancer diagnosis using FURIA and CHIRP algorithms based on BUPA liver disorder dataset

Inventors–Dr.Tulika Chakrabarti, Dr.Prasun Chakrabarti, Manish Tiwari, Osho Upadhyay, Pradeep Laxkar

(17) File number- 201811021728

Date of filing – 11/06/2018 , Publication – 13/07/2018

Title- Novel facts related to mobile IP and packet combining schemes

Inventors– Dr.Amrit Ghosh, Dr.Prasun Chakrabarti ,Achyuth Sarkar, Prof C T Bhunia

(18) File number- 201811021694

Date of filing – 11/06/2018, Publication Date – 07/09/2018

Title- NIRF dataset based analysis of Higher Education Institutions(HEIs) in India – A critical thinking perspective

Inventors– Kuntal Barua, Dr. Tulika Chakrabarti, Dr.Prasun Chakrabarti , Dr.Amrit Ghosh

(19) File number- 201811006887

Date of filing – 23/02/2018, Publication Date - 27/04/2018

Title- Novel facts related to Network Intrusion Detection in Spark’s Mllib environment

Inventors– Pradeep Laxkar, Dr.Prasun Chakrabarti , Dr.Amrit Ghosh

(20) File number- 201811006523

Date of filing – 21/02/2018 **;** Publication Date - 27/04/2018

Title- Novel facts based on classifier algorithms towards achieving optimum accuracy in liver cancer diagnosis, precision and recall

Inventors– Manish Tiwari, Dr. Tulika Chakrabarti, Dr.Prasun Chakrabarti , Kuntal Barua, Achyuth Sarkar

(21) File number- 201811007072

Date of filing – 26/02/2018, Publication Date - 27/04/2018

Title- Accuracy analysis of classifiers for liver cancer diagnosis based on ILPD and BUPA datasets

Inventors– Manish Tiwari, Dr. Tulika Chakrabarti, Dr.Prasun Chakrabarti , Dr.Amrit Ghosh

(22) File number- 201811002670

Date of filing – 23/01/2018; Publication Date - 06/04/2018

Title- Novel facts related to Key for Key Selection (KKS) and Selective Cryptosystems

Inventors– Dr.Prasun Chakrabarti

(23) File number- 201711032966

Date of filing – 18/09/2017 **;** Publication Date - 27/10/2017

Title : Novel facts related to skid resistance and mean texture depth - A civil and machine learning perspective

Inventors- Dr.Prasun Chakrabarti , Abhirup Basu Roy Chowdhury, Rohan Majumder

(24) File number- 201711007388

Date of filing – 02/03/2017 ; Publication Date - 14/04/2017

Title- Discovered facts related to DIMACS instance based Graph Coloring algorithm through edge cover technique

Inventors– Harish Patidar , Dr.Prasun Chakrabarti

(25) File number- 201711005075

Date of filing – 13/02/2017 ; Publication Date - 30/06/2017

Title- Statistical and Artificial Intelligence based analysis of vibration control of near fault earthquake

Inventors–Dr.Prasun Chakrabarti , Rohan Majumder

(26) File number- 201611030071

Date of filing – 02/09/2016 ; Publication Date - 02/06/2017

Title- Stochastic Process and Soft Computing based business gain analysis

Inventors–Dr.Prasun Chakrabarti , Dr.Devi Prasad Misra ,Dr.Biswajit Satpathy

(27) File number- 3827/DEL/2015

Date of filing – 24/11/2015 ; Publication Date - 18/12/2015

Title- Analysis of liver cancer in the light of reliability estimation, weighted majority algorithm & concept

learning theory

Inventors–Dr.Prasun Chakrabarti , Manish Tiwari , Dr. Tulika Chakrabarti

(28) File number- 1458/DEL/2015

Date of filing – 22/05/2015 ; Publication Date - 21/08/2015

Title-Investigations related to mobile node detection – A complex variable and Markov model perspective

Inventors– Dr.Amrit Ghosh, **Dr. Prasun Chakrabarti**

(29) File number- 1210/DEL/2015

Date of filing – 30/04/2015 ; Publication Date - 26/06/2015

Title- Eco friendly self-reliant safe Indian Toilet

Inventors– Rinu Ghosh, Dr.Amrit Ghosh, **Dr. Prasun Chakrabarti ,** Dr.Deepak Paliwal

(30) File number- 3519/DEL/2014

Date of filing – 03/12/2014 ; Publication Date - 16/01/2015

Title- Discovered facts of Liver cancer in the light of geometric distribution , Cobb- Douglas model and

information gain

Inventors–Manish Tiwari , Dr.Prasun Chakrabarti , Dr. Tulika Chakrabarti

(31) File number- 3169/DEL/2014

Date of filing – 03/11/2014 ; Publication Date – 02/01/2015

Title- Artificial Intelligence based modeling of liver cancer growth investigation

Inventors– **Dr. Prasun Chakrabarti ,** Manish Tiwari

(32) File number- 523/DEL/2014

Date of filing – 25/02/2014 ; Publication Date – 28/03/2014

Title- Discovered Facts related to security threats of Mobile IPv6

Inventors – Amrit Ghosh , **Dr. Prasun Chakrabarti**

(33) File number- 2137/DEL/2013

Date of filing – 16/07/2013; Publication Date – 28/03/2014

Title- Optimization of characteristic parameters for Mobile IP – Discovered facts to be applied in industry informatics

Inventors – Amrit Ghosh , **Dr. Prasun Chakrabarti** , Dr.Pierluigi Siano (ITALY)

(34) File number- 1446/DEL/2011

Date of Filing – 19/05/2011; Publication Date – 23/11/2012

Title- Mathematical Modeling of Event analysis in dream and thought analysis of persons with High blood pressure

Inventor - **Dr. Prasun Chakrabarti**

(35) File number- 1288/DEL/2011

Date of Filing – 02/05/2011 ; Publication Date – 09/11/2012

Title- Thought Analysis of Alcohol-addicted persons and patients suffering from brain cancer

Inventor - **Dr. Prasun Chakrabarti**

(36) File number- 821/DEL/2011

Date of Filing – 23/03/2011 ; Publication Date – 28/09/2012

Title- Statistical Modeling of Thought Disorders of Schizophrenic and Psychiatric Patients

Inventor - **Dr. Prasun Chakrabarti**

(37) File number- 383/DEL/2011

Date of Filing – 14/02/2011 ; Publication Date – 17/08/2012

Title- Neuro-fuzzy and complex variable based human thought process quantification

Inventor - **Dr. Prasun Chakrabarti**

10) PH.D SUPERVISION:

2014

1. Ajay Prasad awarded Ph.D. Degree on 26th September 2014 by Sir Padampat Singhania 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 Singhania 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 Singhania 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 Singhania 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 Singhania 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 Singhania 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 Singhania 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 at Sir Padampat Singhania 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 at 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, Assoc. Professor & Head, Department of Mathematics, Mewar University ]

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 Autonoma 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 :**

Pursuing **D.Sc degree** from 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**, Sambalpur University

**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 , NAAC-A accredited) | 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 | Institute & University | Branch | Class / Percentage | Year of passing |
| B.Tech | B.P.Poddar Institute of Management & Technology Degree awarded by  University of Kalyani  (State Govt. University , NAAC-A accredited) | Computer  Engineering | 1ST (83.82%)  ( Institute Rank  Holder ) | 2003 |

**E. Board Certification :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Examination | School / Board | Branch | Class / Percentage | Year of passing |
| Higher Secondary | Tirthapati Institution  *West Bengal Council*  *of Higher Secondary Education* | Science | 1ST ( 73.6%) | 1999 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Examination | School / Board | Branch | Class / Percentage | Year of passing |
| Secondary | South Point High School  *West Bengal Board of Secondary Education* | Science | 1ST ( 72.6%) | 1997 |

**13) DETAILS OF TEACHING EXPERIENCE :**

|  |  |  |
| --- | --- | --- |
| Institution | Position | Duration |
| 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 – till date |
| ITM Universe, Vadodara, Gujarat, India | Dean(R&D) and Senior Professor , Department of Computer Science and Engineering | July 2018 – November 13, 2019 |
| Sir Padampat Singhania University, Udaipur | Professor and Head, Department of Computer Science and Engineering | September 2015 – June 2018 |
| Sir Padampat Singhania University, Udaipur | Associate Professor and Head , Department of Computer Science and Engineering | July 2011 – August 2015 |
| Sir Padampat Singhania University, Udaipur | Associate Professor, Department of Computer Science and Engineering | February 2010 – June 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 |

14) SELECTED INVITED / PLENARY 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) Plenary talk on “Research for the benefit of the society” at the First International Conference on Career Research Education Alliance Training & Entrepreneurship (CREATE 2018) in Nagercoil, Tamil Nadu on 6th April 2018

(iv) Invited talk on “Human Thought Disorders – An Artificial Intelligence Perspective” at VII Rajasthan Science Congress, Mohan Lal Sukhadia University Udaipur on October 16,2019

(v) Invited online (Skype) based 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

(vi) Delivered Dr Vikram Sarabhai Memorial Lecture on “Applications of Artificial Intelligence in Space Research” at Swarrnim Startup & Innovation University Gandhinagar on 20th December 2019.

**15) PROFESSIONAL MEMBERSHIP :**

Fellow -

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 (ISRD) in 2018

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

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

Senior Member-

The IEEE (USA)

International Association of Computer Science and Information Technology *(*IACSIT*)* Singapore

16 (A) BOOKS -

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 Singh and Prasun Chakrabarti

7. Title : Fundamentals of Soft Computing

Publisher : BPB Publications

ISBN : 978-9-386-55156-6

Authors- Kuntal Barua and Prof Prasun Chakrabarti

8. 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

9. 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

10. 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

11. 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

**16 (B) BOOK CHAPTER (MALAYSIA) –**

Chakrabarti T., Chakrabarti P. and Mukhopadhyay S. , “Green Chemistry and Environmental Sustainability”, pp.1-9, In *Ecology and Economy –Survival of the Fittest*, published by Lincoln University College Malaysia; Editor: Dr Sandeep Poddar, ISBN: 978-967-16798-4-5, 2020

**17) PUBLICATIONS-**

Selected list only

**A.) Scopus / Web of Science - ESCI indexed Journals / Springer CCIS – AISC - Lecture Notes / Elsevier Procedia :**

1. Chakrabarti P., Bhuyan B., Chaudhuri A. and Bhunia C.T., “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 **[ ESCI Indexed Journal ]**

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

**[ ESCI Indexed Journal ]**

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

**[ ESCI Indexed Journal ]**

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

**[ ESCI Indexed Journal ]**

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