CURRICULUM VITAE

I. General information

1. Name	:	PRADEEP KUMAR GUPTA
2. Father's Name	:	Late SHRI DHANIPAL GUPTA
3. Mother's Name	:	SMT. USHA GUPTA
4. Citizenship	:	INDIAN
5. Contact information: telephone, e-mail:		pkgupta@ieee.org
		+91-9805193854 (Mob.)
6. DoB	:	18-April-1978
7. Address for Correspondence	:	546/1, Block-2, Flat-2, New Hari Bhawan, Near ITI Solan, HP, 173212, India

8. Education (educational institution, level of education, specialisation, date of graduation)

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education and include postdoctoral training.)*				
INSTITUTION AND LOCATION	**DEGREE** *(if applicable)*	**YEAR**	**Division**	**FIELD OF STUDY**
University of Pretoria, Hatfield Campus, Gauteng, South Africa	Post-Doctorate	2015, 2016	--	Computer Engineering
Jaypee University of Information Technology, Solan, India	Ph.D.	2013	--	Computer Science and Engineering
Vladimir State University, Russia	M.E.	2001	81%	Informatics and Computer Engineering
Vladimir State University, Russia	B.E.	1999	77%	Informatics and Computer Engineering
Govt Inter College, Agra (U.P Board)	12th	1993	72%	Physics, Chemistry Mathematics
Govt Inter College, Agra (U.P Board)	10th	1991	75% (Hons.)	Hindi, English, Mathematics, Biology, Science, Social Science

9. Language skills

- o **ENGLISH** - Native/Bilingual
- o **HINDI** - Native

10. **Work experience, including current position**

Post	Period of service	Organization
Professor	May 2025 – till	Jaypee University of Information Technology, Waknaghat, Solan (H.P) INDIA
Professor & Head (Data Science)	June 2024 – May 2025	Mohan Babu University, Tirupati, Andhra Pradesh, India
Professor& Academic Coordinator	Jan 2023 – June 2024	Jaypee University of Information Technology, Waknaghat, Solan (H.P) INDIA
Associate Professor	Sep 2017 – Dec 2022	Jaypee University of Information Technology, Waknaghat, Solan (H.P) INDIA
Visiting researcher	Nov 2017-Dec 2017	Federal University of Itajuba (UNIFEI), BRAZIL
Post-Doctoral Fellow and Adjunct faculty	Jan 2015 – July 2016	University of Pretoria, SOUTH AFRICA, Department of Electrical, Electronic and Computer Engineering
Assistant Professor (Sr. Grade)	May 2013 – Sep 2017	Jaypee University of Information Technology, Waknaghat, Solan (H.P) INDIA
Sr. Lecturer	Jul 2008 – Apr 2013	Jaypee University of Information Technology, Waknaghat, Solan (H.P) INDIA
Assistant Professor	Jun 2005 – Jul 2008	Raj Kumar Goel Institute of Technology, Ghaziabad (UP), INDIA
Lecturer	Aug 2002 – Jun 2005	Bhagwant Institute of Technology, BhagwantpuramMuzaffaranagar (UP), INDIA

II. Teaching and activities related to the administration and development of teaching

Undergraduate and Post-Graduate Teaching

- Operating Systems
- Software Testing and Debugging
- Database Management Systems
- Data Structures and Algorithms
- Cloud Computing
- Storage Networks
- Information Systems

12. Supervision of Doctoral / Masters Students

Doctoral research supervision

S.No.	Name of Student	Title of Thesis	Status	Role	University
1.	**Ms. Righa Tandon**	Developing privacy preservation and authentication schemes for secure vehicle-to-vehicle communication in vehicular networks	Awarded (November 2021)	Supervisor	Jaypee University of Information Technology, Solan, India
2	**Mr. Arvind K Yadav**	Machine-learning based predictions and computational investigations on proteinmethyltransferases involved in human malignancies	Awarded (December 2022)	Supervisor 2	Jaypee University of Information Technology, Solan, India
3	**Ms. Poonam Rana**	Enhancement of Data Staging Process in Big Data and Cloud Computing Environment for heterogeneous sources of data	Awarded (June 2024)	Supervisor 2	Dr. A. P. J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh, India
4	**Mr. Pankaj Sharma**	Hybrid CRBM and Paticle swarm optimization approach to improve Fault Tolerance in Fog Computing	Awarded (April 2024)	Supervisor	Jaypee University of Information Technology, Solan, India
5	**Ms. Shefali Varshney**	Scheduling and Trust Management in Fog Computing	Awarded (May 2024)	Supervisor 1	Jaypee University of Information Technology, Solan, India
6	**Mr. Sudhanshu Saurabh**	Developing 2D/3D – CNN models for predicting ADHD Disorder in Childs and Humans	Awarded (June 2024)	Supervisor	Jaypee University of Information Technology, Solan, India
7	**Mr. Ashok Kumar Tripathi**	Missing values imputation and futuristic predication using deep learning technique	Awarded (July 2024)	Supervisor 1	Jaypee University of Information Technology, Solan, India

Masters research supervision

S.No.	Name of Student	Title of Thesis	Status	University
1	**Mr. Abhinav Kirti Gupta**	Fuzzy Rule based identification system for Disease Identification in Apples.	Awarded (2021)	Jaypee University of Information Technology, Solan, India
2	**Ms. Shefali Varshney**	QoS based resource scheduling in Fog computing environment.	Awarded (2019)	Jaypee University of Information Technology, Solan, India
3	**Ms. Gunjan Gugnani**	Framework and Algorithms to Improve Security Mechanism in Cloud.	Awarded (2015)	Jaypee University of Information Technology, Solan, India
4	**Mr. Ravideep Singh**	Handling Load Balancing in Cloud Storage.	Awarded (2015)	Jaypee University of Information Technology, Solan, India
5	**Ms. Anadita Singh Thakur**	Framework to Improve Data Integrity in SAAS Cloud.	Awarded (2014)	Jaypee University of Information Technology, Solan, India
6	**Mr. Sunil Kumar Sharma**	Energy Efficient Software Development Life Cycle.	Awarded (2014)	Jaypee University of Information Technology, Solan, India
7	**Ms. Anamika Rangra**	Securing Cloud Availability against DDoS Attack.	Awarded (2014)	Jaypee University of Information Technology, Solan, India
8	**Mr. Sameer**	Developing Algorithms and Tool for Empirical Analysis of Regression Testing.	Awarded (2013)	Jaypee University of Information Technology, Solan, India
9	**Mr. Kuwar Pratap Singh**	Comparative Study and Implementation of Routing Protocols OSPF and EIGRP in IPv6 Networks.	Awarded (2013)	Jaypee University of Information Technology, Solan, India
10	**Mr. Dinesh Kumar**	Modified Pair Test Case Generation Algorithm.	Awarded (2012)	Jaypee University of Information Technology, Solan, India
11	**Mr.Dharmender Sharma**	Information Retrieval and Evolutionary Techniques.	Awarded (2012)	Jaypee University of Information Technology, Solan, India
12	**Ms. Poonam Rana**	Developing a Hybrid Framework of IAAS and PAAS.	Awarded (2012)	Jaypee University of Information Technology, Solan, India
13	**Mr. Kapil Kumar**	Developing new mutants and test data generation technique for mutation testing.	Awarded (2011)	Jaypee University of Information Technology, Solan, India

13. Administrative & Academic Activities

Administrative activities

a) **Program Head (Data Science)** at Mohan babu University, Tirupati, India since June 2024- May 2025.

b) **Academic Coordinator,** CSE & IT at Jaypee University of Information Technology, Solan, India, since October 2022 – June 2024.

c) **Program Coordinator,** Skill development courses offered by *Ministry of Skill Development and Entrepreneurship*, since August 2021 – Till.

d) **Member,** University Level Committee, since September 2021 – 2024

e) **Member,** Department Level Committee, since September 2021 – 2024

f) **Department Coordinator,** Computer Science & Engineering and Information Technology at Jaypee University of Information Technology, Solan, India, since November 2019 – August 2021.

g) **Nodal Officer** for **UGCVidyanjali (Higher Education)** programme of **Ministry of Education (MoE)** at Jaypee University of IT, Solan,HP.

h) **Program Coordinator,** Master of Computer Science & Engineering (Information Security) at Jaypee University of Information Technology, Solan, India, since August 2016 – August 2021.

i) **State student coordinator** of Computer Society of India for Himachal Pradesh since Feb 2020 – June 2024.

j) **Coordinator,** for Proficiency courses of Computer Science & Engineering and Information Technology department at Jaypee University of Information Technology, Solan, India, since July 2019 – Aug 2021.

k) **Coordinator,** for Minor Programmes of Computer Science & Engineering and Information Technology department at Jaypee University of Information Technology, Solan, India, since July 2019 – Aug 2021.

l) **Member,** Technology Incubator and Entrepreneurship Development Cell (TIEDC) at Jaypee University of Information Technology, Solan, India, July 2021.

m) **Coordinator & Member** of Board of Studies of Computer Science & Engineering and Information Technology department at Jaypee University of Information Technology, Solan, India, since November 2019 – August 2021.

n) **Chairman,**Departmental Consultative Committee (DCC) atJaypee University of Information Technology, Solan, India, since August 2017 – October 2019.

o) **Coordinator,** University Counseling Committee at Jaypee University of Information Technology, Solan, India, since August 2016 – August 2017.

p) **Coordinator,** Department level committee Computer Science & Engineering and Information Technology at Jaypee University of Information Technology, Solan, India, since April 2020 – June 2021.

q) **Chairman,** Curriculum designing committee of Computer Science & Engineering and Information Technology department at Jaypee University of Information Technology, Solan, India, since October 2017 – March 2018.

r) **Member,** Disciplinary Committee at Jaypee University of Information Technology, Solan, India, since July 2017 – March 2019.

s) **Coordinator,** Software Development committee at Computer Science & Engineering and Information Technology at Jaypee University of Information Technology, Solan, India, since April

2012 – Dec 2014.

Academic activities

a) Organizing various activities through **Infosys Springboard platform** from February 2022 – May 2024.

b) Designed and developed the *Course curriculum of 160 credits for B.Tech CSE&IT*programme at Jaypee University of Information Technology, Solan, India, in 2018.

c) Designed and developed the *Course curriculum for various proficiency streams* like Information security, Data Science, Machine Learning, Computer Graphics, Big Data and Visual Analytics, Human Computer Interaction, Image Analysis and Processing, Cloud Computing, Artificial Intelligence, Social Computing, at Jaypee University of Information Technology, Solan, India, in 2019.

d) Designed the course structure for *Minor in CSE* and *Minor in IT*programmes at Jaypee University of Information Technology, Solan, India, in 2019.

e) Developed the syllabi of "*Data Structures and Algorithms*" at Jaypee University of Information Technology, Solan, India, in 2018.

f) Developed the syllabi of "*Software Engineering Practices*" at Jaypee University of Information Technology, Solan, India, in 2020.

g) Developed the syllabi of "*Software Engineering Practices Lab*" at Jaypee University of Information Technology, Solan, India, in 2020.

h) Developed the syllabi of Open Elective course "*Software Testing Methodologies*" at Jaypee University of Information Technology, Solan, India, in 2019.

i) Developed the syllabi of Open Elective course "*Multimedia Systems and Applications*" at Jaypee University of Information Technology, Solan, India, in 2019.

j) Developed the syllabi of "*Storage Networks*" at Jaypee University of Information Technology, Solan, India, in 2011.

k) Designed the "**Startup Innovation Policy**" for Technology Incubator and Entrepreneurship Development Cell (TIEDC) at Jaypee University of Information Technology, Solan, India, in July 2021.

l) **Counsellor**, of students of B.Tech CSE & IT at Jaypee University of Information Technology, Solan, India, since Aug 2008 – May 2024.

m) **Mentor**, students of B.Tech CSE & IT for various Minor and Major projects, at Jaypee University of Information Technology, Solan, India, since Aug 2008 – Till.

n) **Mentor,** of M.Tech CSE students at Jaypee University of Information Technology, Solan, India, since July 2010 – July 2012.

o) **Supervisor,** of PhD students at Jaypee University of Information Technology, Solan, India, since July 2017 – May 2024.

Other activities in support of teaching.

- Counseling of students for their weak performance.
- Encouraging students for research activities.
- Recommending students for their Post graduation from various foreign universities.
- Attending workshops and faculty development programs to improve the skills.

III. Research and development and creative activities

Main fields of research.

A) Software Engineering/Testing

Software is an integration of numerous programming modules (e.g., functions, procedures, legacy system, reusable components, etc.) tested and combined to build the entire module. However, some undesired faults may occur due to a change in modules while performing validation and verification. A two-phase Genetic Algorithm-based algorithm has been implemented that considers test case selection and test case prioritization technique for performing regression testing on several modules ranging from a smaller line of codes to huge line codes of procedural language. A textual based differencing algorithm has also been implemented for test case selection. The efficiency of the prioritization algorithms has been analyzed by the Average Percentage of Code Coverage (APCC) and Average Percentage of Code Coverage with cost (APCCc). In the obtained results, the value of APCC and APCCc obtained for non-prioritized test suite are 83.50% and 84.25% respectively. Similarly, the value of APCC and APCCc obtained for the prioritized test suite is 87.50% and 87.25% respectively.

B) Vehicular Networks

Intelligent transportation systems (ITS) have become the most effective and efficient approach for making the current transportation systems more diverse. ITS has been revolutionized by the Internet of Vehicle(IoV) that applies Internet of Things (IoT) concepts to impart greater value to traditional vehicular networks. Here, to preserve vehicle privacy in the network, a pseudonym-based authentication scheme has been implemented in which pseudonyms are assigned to each vehicle in the network. This security scheme handles many security attacks such as non-repudiation, key-guessing, modification and replay. Furthermore, the implemented delay minimization cover tree algorithm reduces the time-delay by 82.4% and 21.4% for 140 vehicle nodes and 75.8% and 37.5% for 1000 nodes. Moreover, to preserve the privacy a lightweight authentication scheme has been deployed to create a secure environment for communication amongst the vehicle nodes in the network. The obtained results shows that the lightweight authentication scheme minimizes the time required for data collection by 37.72%, 25.9%, and 15% when compared with DADCNS, ECCN, and VNDN respectively.

C) Deep learning & Machine Learning

In the implementation of deep learning and machine learning based approaches various models have been considered that predict the Lung cancer, Breast Cancer, Heart attacks, COVID-19, and student's emotion in real time. The obtained results are summarizing are as per following:

- In the obtained results while predicting the COVID-19 positive patient, nCOVnet model produces results in less than *5 seconds and* achieve true positive rate of 97.62%.

- Whereas, while identifying the relationship between COVID-19 and pneumonia cases, it is found that the patient diagnosed with Pneumonia has more chances to get tested as a False Positive.

- In another approach for predicting the lung cancer from CT-Scan images an accuracy of 88.55% has been achieved using multi-layer perceptron (MLP) classifier.

- Similarly, in another approach while implementing the CNN-based Whale Optimization Algorithm

for predicting the breast cancer an accuracy of 92.42% has been achieved over histopathological image datasets.

- Similarly, an accuracy of 86.84% has been achieved by using modified random forest algorithm for predicting of heart disease.

- In another deep learning based AquaVision model, detects and classifies the different pollutants and harmful waste items floating in the oceans and on the seashores with mean Average Precision (mAP) of 0.8148.

D) Enabling technologies

To handle the variousrising challenges in business there are several technologies that collectively solve the issue of fault tolerance, resource provisioning, and optimization. The obtained results to resolve this issue are summarizes as per following:

- To resolve the issue of resource provisioning in fog computing a service placement methodology has been implemented. An AHP technique has been used for computation of various weights of fog parameters for selection of optimal fog layer.

- We have also provided a detailed comparison of the proposed framework with the existing GA-based fog system over the execution cost ($) and network usage (Mbps). In the obtained results, the proposed framework outperforms the existing model with network usage of 626020 Mbps. and execution cost of $82020.20.

- Implemented approach for optimizing the car parking, minimizes the cost of parking on per person basis, exhaust of vehicle, and indirectly impact on save of wastage of gasoline.

- ## Research grants and contracts awarded

Funded Projects

a) Granted a HP Specific research project on "*Development and Promotion of Crop Surveillance System for forecasting Leaf Diseases and Protection against Wild Animals using Artificial Intelligence and IoT*" with Himachal Pradesh State Council for Science &Environment(HIMCOSTE). **[6.2 Lacs] [Role: PI]**

b) **Completed** one contractual research project on "*Inspection of Food Items using Image processing techniques*" with UdyogYantra Technologies LLP, Noida, India.[**Completed**]

Participation in creating innovativesolutions /conductingapplied research and analysis.

Patent Authorship

a) Punit Gupta, **Pradeep Kumar Gupta,** Rugved Chavan, Mayank Kumar Goyal, Abha Kiran Rajpoot, **"FUSE FOR ILLUMINATION DEVICE"**, India Design Patent, Application No. 342235-001**[GRANTED]**

b) **Pradeep Kumar Gupta,** Punit Gupta, Mayank Kumar Goyal, Mandeep Kaur, Rajan Prasad Tripathi, Ritika Wason, Navaditya Gaur, Anshul Sharma, "**SYSTEM AND METHOD FOR DETECTING DIABETIC FOOT ULCER**", India Patent Application ID: 202011025388. **[PUBLISHED]**

c) Ritika Wason, Prashant Singh Rana, Vishal Jain, Mandeep Kaur, Mayank Kumar Goyal, **Pradeep**

Kumar Gupta, Punit Gupta, "**SYSTEM AND METHOD TO MONITOR REAL TIME MENTAL HEALTH OF USER**", India Patent Application ID 202011024463. [**PUBLISHED**]

d) Purnendu Shekhar Pandey, Mayank Singh, Sandhya Tarar, Umang Kant, **P. K. Gupta**, Sanjeev Kumar Raghuwanshi, G.S.Tomar, Viranjay M. Srivastava "**SMART MEDICINE DISPENSER**" India Patent Application ID: 201811013952. **[PUBLISHED]**

Books Authored

a) Punit Gupta and **Pradeep Kumar Gupta** "Trust & Fault in Multi Layered Cloud Computing Architecture", Springer International Publishing, 2020,p.208.(ISBN: 978-3-030-37319-1). [Published]

b) **P.K. Gupta**, Vipin Tyagi, and S.K. Singh, "Predictive Computing and Information Security," Springer, 2017. (ISBN: 978-981-10-5107-4) p.162. [Published]

Participation in the work of the international community in the specialisation

International association with scientific organizations and other professional bodies

- Reviewer for the International project proposal forwarded by Prime Minister Office Singapore, 2022.

- Research collaboration with School of Engineering and Sciences, Tecnológico de Monterrey, Mexico from 2019 - Till.

- Research collaboration withDepartment of Electrical and Electronics Engineering, University of Johannesburg, South Africa from 2018- Till.

- University of Pretoria, South Africa has awarded 2 years of post-doctoral fellowship during year 2015, and 2016.

- Actively participated in the activities of National Research Foundation (NRF) South Africa for evaluation of project proposals.

- Visiting researcher at Federal University of ITAJUBA - UNIFEI/IMC, Brazil in 2017.

Editor for International Journals / Books

a) **Associate Editor** of IEEE Access since 2016.

b) **Editor,** Advances in Computing in Data Sciences, Springer, vol 1613, 2020. (**Book – Published**)(ISBN 978-3-031-12638-3)

c) **Editor,** Advances in Computing in Data Sciences, Springer, vol 1614, 2020. (**Book – Published**)(ISBN 978-3-031-12641-3)

d) **Editor,** Advances in Computing in Data Sciences, Springer, vol 1244, 2020. (**Book – Published**)(ISBN 978-981-15-6634-9)

e) **Editor,** Advances in Computing in Data Sciences, Springer, vol 1045, 2019. (**Book - Published**)(ISBN 978-981-13-9939-8)

f) **Editor,** Advances in Computing in Data Sciences, Springer, vol 1046, 2019. (**Book - Published**)(ISBN 978-981-13-9942-8)

g) **Editor,** Advances in Computing in Data Sciences, Springer, vol 905, 2018. (**Book -**

Published)(ISBN 978-981-13-1813-8)

h) **Editor,** Advances in Computing in Data Sciences, Springer, vol 906, 2018. **(Book - Published)**(ISBN 978-981-13-1813-9)

i) **Editor,** Predictive Intelligence Using Big Data and the Internet of Things, IGI Global, December 2018. **(Book– Published)**(ISBN 978-152-25-6210-8)

j) **Editor,** Advances in Computing and Data Sciences, Springer, vol. 721, 2017. **(Book – Published)**

k) **Lead Guest Editor** - Special Issue on Internet of Things-based Cloud Computing, Int. J. of Internet of Things and Cyber-Assurance, Inderscience publishers, 2016.

l) **Guest Editor** - Special Issue on Robust and Secure Data Hiding Techniques for Telemedicine Application, Multimedia Tools and Applications, Springer, 2016

Conferences/Workshops/Seminars Organized

a) Principal General Chair for **SixthInternational Conference on Image Information Processing Nov. 26-28, 2021, ICIIP-2021,** Jaypee University of Information Technology, Shimla, H.P, INDIA.

b) **Executive General Chair,** 3rdInternational Conference on Smart and Intelligent Learning for InformationOptimization (CONSILIO 2021), 09-10 July, 2021, Tallinn, Estonia.

c) **Executive General Chair,** 2nd International Conference on Smart and Intelligent Learning for InformationOptimization (CONSILIO 2020), 24-25 October, 2020, Goa, India.

d) Conference General Chair for **FifthInternational Conference on Image Information Processing Nov. 15-17, 2019, ICIIP-2019,** Jaypee University of Information Technology, Shimla, H.P, INDIA.

e) **Executive General Chair,** 1st International Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO 2019), 8-9June, 2019, MGM COET, NOIDA, India.

f) TPC Chair for **3rd International conference on Advances in Computing and Data Sciences (ICACDS 2019), April 12-13, 2019, Inderprastha Engineering College**, Ghaziabad, India.

g) Executive General Chair for **FourthInternational Conference on Image Information Processing Dec. 21-23, 2017, ICIIP-2017,** Jaypee University of Information Technology, Shimla, H.P, INDIA.

h) **Convener for First International conference on Advances in Computing and Data Sciences (ICACDS 2016), Nov 11-12, 2016,** Krishna Engineering College, Ghaziabad, India.

i) **General Chair for IEEE International Conference on Computer Graphics, Vision, and Information Security (CGVIS-2015)Nov. 2-3, 2015,** KIIT University, Bhubaneswar, INDIA.

j) **General Co-Chair for Second IEEE International Conference on Image Information Processing Dec. 9-11, 2013, ICIIP-2013,** Jaypee University of Information Technology, Shimla, H.P, INDIA.

OrganizedSpecial Sessions

a) Organizing **"Special Session on Recent Advances and Enabling Technologies for Secure Multimedia Networks" at** Fifth International Conference on Multimedia, Signal Processing

and Communication Technologies (IMPACT-2022), Nov 26-27, 2022 at Aligarh Muslim University, India.

b) Organized **"Special Session on Smart and Ubiquitous Computing for Vehicle Navigation Systems"** at IEEE TENCON 2016, Nov 22-25, 2016, Singapore. **Chair(s): Dr. P.K. Gupta, Dr. S. K. Singh (IIT-BHU).**

c) Organized **"Special Session on Context Aware and Ubiquitous Computing"** at IEEE International Smart Cities Conference(ISC2), Guadalajara, Mexico, Oct 25-28, 2015.

d) Organized **"Special Session on Internet-of-Things based Cloud Computing and Information Security"** 10th INDIACom-2015, 3rd International Conference on Computing for Sustainable Global Development, March16-18, 2016, Bharti Vidyapeeth, New Delhi, INDIA.

e) Organized **"Special Session on Image Processing and Machine learning (SSIPML)"** at 9th INDIACom-2015, 2nd International Conference on Computing for Sustainable Global Development,March11-13, 2015,Bharti Vidyapeeth, New Delhi, INDIA.

Keynote Speaker

a) "**AI-based Prdictive Image Analysis**" at FDP on Emerging Trends and Applications in Artificial Intelligence, 9th-13th December 2024, Chandigarh University, Punjab, India

b) "**Deep learning based Predictive Image Analysis**" at International Symposium on Intelligent Automation Systems using Computer Vision and AI, 19-20 April 2024, Chitkara University, Rajpura Campus, Punjab, India

c) *"**Role of Enabling Technologies in Healthcare Using AI**"* at International Conference on ArtificialIntelligenceand Data Science(ICAIDS-2021), 11-12 March 2022, Sreyas Institute of Technology, Hyderabad, India.

d) **One week FDP** on *Essentials of Emerging Technologies (AI/ML/Deep Learning & Big Data)*, January 4-9, 2021, organized by ACM-W, at ABES Engineering College, Ghaziabad, India.

e) **"Predictive Computing Techniques and Applications"** at One week FDP on *Essentials of Emerging Technologies (AI/ML/Deep Learning & Big Data)*, January 4-9, 2021, organized by ACM-W, at ABES Engineering College, Ghaziabad, India.

f) **"Predictive Intelligence and Enabling technologies"**Online Faculty Development Programme on "*Emerging Research Trends in Computer Science and IT*" from 08th to 19th June, 2020 by Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM) in collaboration with IEEE Computer Society (Delhi Section), CSI & ISTE, Delhi Section.

g) **"IoT for Smart living"**MHRD sponsored one week workshop organized by Banasthali Vidyapeeth, Rajasthan, India, 2017.

h) **"Energy Sustainable Computing"**at International Conference on Computer Science and Information Engineering (ICCSIE2015), Ningbo, China 2015.

Membership of Professional bodies

- **Life member of Computer Society of India (LMCSI)** with Membership Number - 00172719

- **Member of IEEE, USA (MIEEE)** withMembership Number – 90576092

- **Professional Member of ACM (MACM)** with Membership Number - 5219775

Other activities to support of research and development and creative work.

Attended Conferences

  a) 5th International Conference on **Advances in Computing and Data Sciences (ICACDS 2021),** Springer, 23-24 April, 2021, KBTCOE, Nagpur, Maharashtra, India.
  b) 2nd International Conference on **Smart and Intelligent Learning for Information Optimization (CONSILIO 2020),** 24-25 October, 2020, Goa, India.
  c) Sixth International Conference on **Parallel, Distribute d and Grid Computing (PDGC),** 6-8 November, 2020, at Jaypee University of Information Technology, Solan(HP), India.
  d) 4ᵗʰInternational Conference on **Advanced Computing and Data Sciences(ICACDS 2019),** 12-13 April , 2019, Inderprastha Engineering College, Ghaziabad, India.
  e) International Conference on **Advanced Computation and Telecommunication (ICACAT-2018)**, 29-30 December, 2018, LNCT Group of Colleges, Bhopal, Madhya Pradesh 462021.
  f) 3ʳᵈ International Conference on **Advnaced Computing and Data Sciences(ICACDS 2018)**, 2021 April , 2018, Uttaranchal University, Dehradun, India.
  g) TENCON 2016 – **2016 IEEE Region 10 Conference**, Marina Bay Sands, 22 Nov - 25 Nov 2016, Singapore.
  h) 2015 Annual **IEEE India Conference (INDICON)**, Jamia Millia Islamia University, 17 Dec - 20 Dec 2015, New Delhi, India
  i) 2nd International Conference on **Computer and Communication Technologies - IC3T 2015**, CMR Technical Campus, July 24-26, 2015, Hyderabad, India
  j) 3rd International Conference on **Frontiers of Intelligent Computing: Theory and Applications (FICTA)**, Bhubaneswar Engineering College, Nov. 2014, Bhubaneswar, Orissa, India
  k) International conference on **soft computing for problem solving (SocPros 2012)**, organized by Institute of Engineering and Technology, JK Lakshmipat University, Dec. 28th – 30th 2012, Jaipur, India, 2012.
  l) IEEE International Conference on **Radar, Communication and Computing (ICRCC-12)** organized by S.K.P Engineering College, Dec. 21st – 23rd 2012, Thiruvannamalai, Chennai, India, 2012.
  m) International conference on **Contemporary computing (IC3-2010)**, organized by JIIT Noida & University of Florida from Aug 9th – 11th 2010, India.
  n) International conference on **Contemporary computing (IC3-2009)**, organized by JIIT Noida & University of Florida from Aug 18th – 20th 2009, India.
  o) National conference on**Advancements in Information and Communication Technology** at Allahabad organized by Computer Society of India, 2008.
  p) National conference on **Recent Technological trends in Management and Library System: Issues and challenges** at Asia – Pacific Institute of Management, New Delhi. 2007.
  q) National Seminar on **e-Security Education through e-Learning, e-Learn 2007** at CDAC-Noida.
  r) National conference on **BharatiyaVigyanSammelan Bhopal – 2007,** organized by Govt of India and Ministry of IT Bhopal.

s) National Seminar on **Technology Development for content creation and localization in Indian languages** at RKGIT Ghaziabad, 2006.

Attended Workshops and FDPs

a) One week FDP **on Essentials of Emerging Technologies (AI/ML/Deep Learning & Big Data),** January 4-9, 2021, organized by ACM-W, at ABES Engineering College, Ghaziabad, India.
b) Two week FDP on **Emerging Research Trends in Computer Science and IT,** June 8-19, 2021, organized by IEEE Computer Society at BVICAM NewDelhi.
c) One week FDP on **Transforming Education with Industry 4.0,** June 15-20, 2020, organized by student chapters IEEE & ACM at Jaypee University of Information Technology, Solan(HP), India.
d) Workshop on **Patents Innovations and Startups,** October 17, 2020, organized by IPR cell at Jaypee University of Information Technology, Solan(HP), India.
e) Workshop on **Moodle learning Management System,** May 30, 2020, organized by IIT Bombay at Aligarh Muslim University, India.
f) Workshop on **Patent Filing & Geographical Indications,** Feb 27, 2017, organized by Himachal Pradesh Patent Information Centre, Shimla, (H.P.) (HPPIC), at Jaypee University of Information Technology, Solan(HP), India.
g) Research seminar on **"Writing and presenting a project proposal"** April 8, 2016, organized by Department of Research and Innovation Support at University of Pretoria, South Africa.
h) Workshop on **Innovative Energy**, September 1-2, 2015, at University of Pretoria, South Africa.
i) One week FDP on in **Teaching, Research & Education – by Design**, July 14-19, 2014, at Jaypee University of Information Technology, Solan(HP), India.
j) Workshop on **LABVIEW,** Feb 17-18, 20, organized by IPR cell at Jaypee University of Information Technology, Solan(HP), India.

Research Profiles

Google Scholar	https://scholar.google.com/citations?user=AqvN8Y0AAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=55466536300
ResearchGate	https://www.researchgate.net/profile/Pradeep-Gupta-22
Web of Science	https://publons.com/researcher/3402387/pradeep-kumar-gupta/
ORCID	https://orcid.org/0000-0003-0416-7097

IV. Participation in the governance and institutional development of the university

a) Signed a **Data protection agreement with Infosys** to conduct various activities under Infosys Springboard programme.

b) Active member of**Center of Excellence in Healthcare Technologies and Informatics (CEHTI) e**stablished by the Department of Biotechnology and Bioinformatics at JUIT, India from June 2023 - July 2024.

c) Active member of**Center of Excellence for Industry 5.0 e**stablished by the Department of Computer science and Engineering at JUIT in collaboration with **University of Nebraska, Omaha, USA**.

V. Public and social activities

a) Promoting events of Computer society of India at National and International levels as a State student Coordinator of Himachal Pradesh, India.

b) Executive Committee Member of IEEE Delhi Section's Standing Committee on T&P Act to handle the various conference related activities at International level.

VI. Professional development

- **Professional development in the specialisation, incl. traineeship with enterprises andinstitutions.**

a) Hands on training on **LDRA software** 2019.

b) Hands on Training on **LABVIEW**, 2018.

- **Professional development to enhance teaching and supervising skills.**

a) Completed course on **Programming for Problem Solving** from NPTEL, India, 2019.

b) Completed certification on *Introduction to Oracle 9i: SQL* under **Oracle 9i OCA WDP.**

VII. Professional recognition and awards

- Awarded with Dr. Sarvepalli Radhakrishnan Distinguished Professor & Researcher Award 2023 in Computer Science & Engineering.

- Nominated as a EXECOM member of IEEE Delhi Section for CY 2023.

- Selected as a SPOC of the month (Dec 2022) for conducting various activities of Infosys Springboard.

- Appointed as a member of Standing Committee on T&P act for IEEE Delhi Section, 2021.

- Appointed as a State student coordinator of Computer Society of India (CSI) for Himachal Pradesh 2020-21.

- CSI Award winner 2015-16 – for maximum publications in CSIC @ Coimbatore.

- Session Chair at IEEE TENCON 2016, Singapore, 2016.

- Associate Editor of IEEE Access, 2016.

- Marquis Who's Who in the World 2016 (VIP Number: 37132995).

- Best paper award at IEEE INDICON 2015.

- Recipient of NRF KIC South Africa 2015 Grant.

LIST OF PUBLICATIONS

Patents Published

[P1] Punit Gupta, **Pradeep Kumar Gupta,** Rugved Chavan, Mayank Kumar Goyal, Abha Kiran Rajpoot, **"FUSE FOR ILLUMINATION DEVICE"**, India Design Patent, Application No. 342235-001**[GRANTED]**

[P2] **Pradeep Kumar Gupta**, Punit Gupta, Mayank Kumar Goyal, Mandeep Kaur, Rajan Prasad Tripathi, Ritika Wason, Navaditya Gaur, Anshul Sharma, "SYSTEM AND METHOD FOR DETECTING DIABETIC FOOT ULCER", India Patent Application ID: 202011025388.

[P3] Purnendu Shekhar Pandey, Mayank Singh, Sandhya Tarar, Umang Kant, **P. K. Gupta**, Sanjeev Kumar Raghuwanshi, G.S.Tomar, Viranjay M. Srivastava "SMART MEDICINE DISPENSER" India Patent Application ID: 201811013952.

[P4] Ritika Wason, Prashant Singh Rana, Vishal Jain, Mandeep Kaur, Mayank Kumar Goyal, **Pradeep Kumar Gupta**, Punit Gupta, "SYSTEM AND METHOD TO MONITOR REAL TIME MENTAL HEALTH OF USER", India Patent Application ID 202011024463.

Peer Reviewed International Journals

[J1] Sadia Kamal, Parth Sharma, P.K. Gupta, Mohammad Khubeb Siddiqui, Abhijit Dutt, Ankush Singh, "DVTXAI: A Novel Deep Vision Transformer with an Explainable AI-based Framework and its Application in Agriculture," *The Journal of Super Computing*, vol. 81, no. 1, pp. 1-32, 2025 DOI: https://doi.org/10.21203/rs.3.rs-4752298/v1 [**SCIE**, **Impact Factor = 2.5**]

[J2] Sudhanshu Saurabh, and P. K. Gupta, "Detection and Classification of Multiple Sclerosis from Brain MRIs by Using MobileNet 2D-CNN Architecture,"*Computación y Sistemas,* vol.28, no 3, 2024. [**SCOPUS**]

[J3] Arvind Yadav, Tirtha Raj Singh, and P.K. Gupta, "PMTPred: Machine learning based prediction of protein methyltransferases using the composition of k-spaced amino acid pairs," *Molecular Diversity*, vol.28, no.4, pp. 2301-2315, 2024. [**SCIE**, **Impact Factor = 3.9**]

[J4] Righa Tandon, Ajay Verma, and P.K. Gupta, "ASCM: Analysis of a Sequential and Collaborative Model for Recommendations," vol.5, no. 788, *SN Computer Science*, 2024. [SCOPUS]

[J5] Righa Tandon, Ajay Verma, P.K. Gupta, "D-BLAC: A dual blockchain-based decentralized architecture for authentication and communication in VANET," Expert Systems With Applications, vol. 237, part B, 121461, Elsevier, 2024. [**Impact Factor=8.5**] **[ABDC, SCIE]**

DOI: https://doi.org/10.1016/j.eswa.2023.121461

[J6] Sudhanshu Saurabh and P. K. Gupta, "Functional Network of Neurocognitive Development in Correlations of BOLD Signals," *Journal of Physics: Conference Series*, vol. 2570, pp. 1-9, 2023. DOI 10.1088/1742-6596/2570/1/012027**[SCOPUS]**

[J7] Pankaj Sharma and P K Gupta,"Novel Particle Bee Optimisation based Framework for Fault Tolerance in Fog Environment," *Journal of Physics: Conference Series*, vol. 2570, pp. 1-9, 2023. DOI 10.1088/1742-6596/2570/1/012029**[SCOPUS]**

[J8] Shefali Varshney, Rajinder Sandhu, and P. K. Gupta, "An effective multi-criteria decision-making approach for allocation of resources in the fog computing environment", *International Journal of Information Technology & Decision Making*, pp. 1-10, 2023. [**Impact Factor = 4.9**] **[SCIE]** DOI: https://doi.org/10.1142/S0219622023500712

[J9] Poonam Rana, Vineet Sharma, and P. K. Gupta, "Lung Disease Classification using Dense Alex Net Framework with Contrast Normalisation and FiveFold Geometric Transformation", *International Journal on Recent and Innovation Trends in Computing and Communication*, vol.11, no.2, pp. 94-105, 2023. DOI: 10.17762/ijritcc.v11i2.6133**[SCOPUS]**

[J10] Saurabh, S., Gupta, P.K.,"Deep Learning-Based Modified Bidirectional LSTM Network for Classification of ADHD Disorder," Arabian Journal for Science and Engineering, vol. 49,no.3, pp.3009-3026, 2024. [**Impact Factor = 2.807**] [**SCIE**]

[J11] Righa Tandon and **P.K. Gupta** "A hybrid security scheme for inter-vehicle communication in content centric vehicular networks" *Wireless Personal Communications*, 2023. [**Accepted, Impact Factor = 2.017**] [**SCIE**]

[J12] Shefali Varshney, Rajinder Sandhu, **P.K. Gupta,** "Cost-Effective Scheduling in Fog computing: An Environment based on Modified PROMETHEE Technique", *JUCS - Journal of Universal Computer Science*, vol. 29, no. 4, 2023. [**Accepted, Impact Factor = 1.056**] [**SCIE**]

[J13] Pankaj Sharma and**P K Gupta**, "Optimization of IoT-Fog Network Path and fault Tolerance in Fog Computing based Environment", *Procedia Computer Science*, Vol. 218, 2023, pp. 2494-2503 https://doi.org/10.1016/j.procs.2023.01.224. [**SCOPUS**]

[J14] Bhaik, A., **Gupta, P. K**, Siddiqui, M. K, & Morales-Menendez, R., "Impact of COVID-19 on Societal Behavior via Twitter Analytics," *Argentine Journal of Behavioral Sciences*, vol14, no.2, pp.37–48, 2022. [**SCOPUS**]

[J15] P.K. Gupta, Mohammad Khubeb Siddiqui, Xiaodi Huang, Ruben Morales-Menendez, Harsh Pawar, Hugo Terashima-Marin, Mohammad Saif Wajid, "COVID-WideNet—A capsule network for COVID-19 detection", Applied Soft Computing, vol 122, 2022, 108780, https://doi.org/10.1016/j.asoc.2022.108780 **[SCI, Impact Factor = 8.263]**

[J16] Prakhar Bhardwaj, **P.K. Gupta,** Harsh Panwar, Mohammad Khubeb Siddiqui, Ruben Morales-Menendez, Anubha Bhaik, "Application of Deep Learning on Student Engagement in e-learning environments," *Computers & Electrical Engineering*, vol.93, 2021, pp.107277. **[SCI, Impact Factor = 4.152]**

[J17] **P.K. Gupta,** "K-Step Crossover Method based on Genetic Algorithm for Test Suite Prioritization in Regression Testing," *Journal of Universal Computer Science*, vol. 27, no. 2, pp.170-189, 2021.
[SCI, Impact Factor = 1.056]

[J18] Righa Tandon and **P.K. Gupta,** "A novel pseudonym assignment and encryption scheme for preserving the privacy of military vehicles" *Defence Science Journal, DRDO*, vol. 71, no. 2, pp.192-199, 2021.
[SCI, Impact Factor = 0.707]

[J19] Verma, A, Tandon, R, **Gupta, P, K.** "TrafC-AnTabu: AnTabu routing algorithm for congestion control and traffic lights management using fuzzy model," *Internet Technology Letters*. 2021;e309. https://doi.org/10.1002/itl2.309 **[ESCI, SCOPUS]**

[J20] Pankaj Sharma, **P.K. Gupta,** "QoS-Aware CR-BM based Hybrid Framework to Improve the Fault Tolerance of Fog Devices", Journal of Applied Research and Technology, vol. 19, no. 1, pp.66-76, 2021. **[SCOPUS]**

[J21] Righa Tandon and **P.K. Gupta**, "SV2VCS: A secure vehicle-to-vehicle communication scheme based on lightweight authentication and concurrent data collection trees." *Journal of Ambient Intelligence and Humanized Computing*, 12(2), 2021 (10.1007/s12652-020-02721-5) **[SCI, Impact Factor = 3.662]**

[J22] Poonam Rana, **P. K. Gupta**, Vineet Agarwal, "A Novel Deep Learning-based Whale Optimization Algorithm for Prediction of Breast Cancer," *Brazilian Archives of Biology and Technology*, vol. 64 (e21200221), pp. 1-16, 2020. **[SCI, Impact Factor = 0.579]**

[J23] Harsh Panwar, **P.K. Gupta,** Mohammad Khubeb Siddiqui, Ruben Morales-Menendez, Prakhar Bhardwaj, Vaishnavi Singh, "A Deep Learning and Grad-CAM based Color Visualization Approach for Fast Detection of COVID-19 Cases using Chest X-ray and CT-Scan Images," *Chaos, Solitons &Fractals*, Elsevier, vol. 140, 2020. (*https://doi.org/10.1016/j.chaos.2020.110190*) **[SCI, Impact Factor = 9.922]**

[J24] Harsh Panwar, **PK Gupta,** Mohammad Khubeb Siddiqui, Ruben Morales-Menendez, Vaishnavi Singh, "Application of Deep Learning for Fast Detection of COVID-19 in X-Rays using nCOVnet," *Chaos, Solitons & Fractals*, vol.138, pp. 109944, 2020 (*https://doi.org/10.1016/j.chaos.2020.109944*) **[SCI, Impact Factor = 9.922]**

[J25] Righa Tandon and **P.K. Gupta,** "PALCT: Vehicle-to-vehicle communication based on pseudonym assignment and encryption scheme using delay minimization cover tree algorithm," International Journal of Vehicle Information and Communication Systems, 2020. **[SCOPUS]**

[J26] Shefali Varshney, Rajinder Sandhu, **P.K. Gupta,** "QoE-based Multi-Criteria Decision Making for Resource Provisioning in Fog Computing using AHP Technique," *International Journal of Knowledge and Systems Science (IJKSS)*, vol.11, no.4, pp.1-14, 2020. (10.4018/IJKSS.2020100102). **[SCOPUS]**

[J27] Harsh Panwar, **P.K. Gupta,** Mohammad Khubeb Siddiqui, Ruben Morales-Menendez, Prakhar Bhardwaj,Sudhansh Sharma, Iqbal H.Sarker, "AquaVision: Automating the detection of waste in water bodies using deep transfer learning," *Case Studies in Chemical and Environmental Engineering*, vol. 2, Elsevier, pp. 100026, 2020. **[SCOPUS]**

[J28] Siddiqui MK, Morales-Menendez R, **Gupta PK,**Hafiz M.N. Iqbal, Fida Hussain, Khudeja Khatoon, Sultan Ahmad, "Correlation Between Temperature and COVID-19 (Suspected, Confirmed and Death) Cases based on Machine Learning Analysis," J Pure Appl Microbiol. 2020, vol. 14(suppl 1), pp.1017-1024, 2020. (*doi: 10.22207/JPAM.14.SPL1.40*) **[SCOPUS]**

[J29] Righa Tandon and **P.K. Gupta,** "A novel and secure hybrid iWD-MASK algorithm for enhanced image security," *Recent Patents on Computer Science*, vol.12, no.1, 2019. **[SCOPUS]**

[J30] Gur Amrit Pal Singh and **P.K. Gupta,** "Performance analysis of various machine learning-based approaches for detection and classification of lung cancer in humans," Neural Computing and Applications, Springer London, vol. 31, no.10, pp. 6863–6877, 2018. **[SCI Impact Factor = 5.606]**

[J31] A. Mohan, A. K. Singh, B. Kumar, S. K. Singh, M. Dave, V. K. Singh, P. Kumar, S. P. Ghrera, and **P. K. Gupta**, "Guest Editorial: Robust and Secure Data Hiding Techniques for Telemedicine Applications," Multimedia Tools and Applications, vol. 76, no. 5, 2017, pp. 7563-7573.

[SCI, Impact Factor = 2.577]

[J32] **P.K. Gupta,** B.T.J. Maharaj, Reza Malekian, "A Novel and Secure IoT based Cloud centric architecture to perform predictive analysis of users activities in sustainable health centres," *Multimedia Tools and Applications*, vol.76, no.18, 2017, pp. 18489-18512. *(DOI: 10.1007/s11042-016-4050-6)*

[SCI, Impact Factor = 2.577]

[J33] **P.K. Gupta** and Praveen Gupta Shweta Suran, Vishwajeet Pattanaik, Mayank Singh, "Brain Imaging Procedures and Surgery Techniques: Past, Present and Future," International Journal of Bio-Science and Bio-Technology, vol.9, no.3, pp.23-34, 2017 **[SCOPUS]**

[J34] Reza Malekian, A.F. Kavishe, B.T.J. Maharaj, **P.K. Gupta,** G.Singh, and H. Waschefort, "Smart vehicle navigation system using Hidden Markov Model and RFID sensors," *Wireless Personal Communication,* Vol.90, issue 4, pp.1717 – 1742, 2016. (*DOI: 10.1007/s11277-016-3419-1*)

[SCI, Impact Factor = 1.671]

[J35] **P.K. Gupta** and Mayank Singh, "Sustainable Computing: a beginning...," *CSI Communications*, vol. 40, issue 5, pp. 23-25, 2016.

[J36] **P. K. Gupta,,** S. P. Ghrera, and Uday Singh Kushwaha, "Performance evaluation of AOMDV routing algorithm with local repair for wireless mesh networks," *CSI Transactions on ICT*, vol. 2, issue 4, pp. 253-260, 2015. *(DOI: 10.1007/s40012-015-0065-9)*

[J37] **P. K. Gupta,** Gunjan Gugnani, S.P. Ghrera, "XML DNA Encryption: Improved Security of Cloud Applications," *CSI Communications*, vol. 34, issue 4, pp. 16-18, 2015.

[J38] **P.K. Gupta** and G.Singh, "A Novel Human Computer Interaction Aware Algorithm to Minimize Energy Consumption," *Wireless Personal Communication*, vol. 81, issue 2, pp.661-684, 2014. (*DOI: 10.1007/s11277-014-2151-y*) **[SCI, Impact Factor = 1.671]**

[J39] **P. K. Gupta** and Anandita Singh Thakur, "Framework to Improve Data Integrity in Multi Cloud Environment," *International Journal of Computer Applications,* vol. 87, no.10, pp.28-32, February 2014. Published by Foundation of Computer Science, New York, USA.*(DOI: 10.5120/15245-3788)*

[J40] Sanjiv Kumar, **P. K. Gupta,** G. Singh, and D. S. Chauhan, "Performance Comparison of Various Diversity Techniques using Matlab Simulation," *IJITCS*, vol.5, no.11, pp.54-61, 2013. *(DOI: 10.5815/ijitcs.2013.11.06)* **[SCOPUS]**

[J41] Sanjiv Kumar, **P. K. Gupta,** G. Singh, and D. S. Chauhan, "Performance Analysis of Rayleigh and Rician Fading Channel Models using Matlab Simulation," *International Journal of Intelligent Systems and Applications*, vol. 5, no. 9, pp. 94-102, 2013.*(DOI: 10.5815/ijisa.2013.09.11)***[SCOPUS]**

[J42] KuwarPratap Singh, **P. K. Gupta,** and G.Singh, "Performance Evaluation of Enhanced Interior Gateway Routing Protocol in IPv6 Network," *International Journal of Computer Applications*, vol. 70, no. 5, pp.42-47, 2013.*(DOI : 10.5120/11962-7802)* **[SCOPUS]**

[J43] **P.K. Gupta** and G Singh, "Energy-Sustainable Framework and Performance Analysis of Power Scheme for Operating Systems: A Tool," *International Journal of Intelligent Systems and Applications*, vol. 5, no. 1, pp. 1 – 15, Jan 2013. *(DOI: 10.5815/ijisa.2013.01.01)* **[SCOPUS]**

[J44] **P. K. Gupta** and G Singh, "Minimizing power consumption by personal computers: a technical survey," *International Journal of Information Technology and Computer Science,* vol. 4, no. 10, pp. 57- 66, 2012.*(DOI: 10.5815/ijitcs.2012.10.07)* **[SCOPUS]**

[J45] **P. K. Gupta** and S. Patel, "Drift Analysis of Backlogged Packets in Slotted ALOHA," International Journal of machine Learning and Computing – IJMLC, vol. 2, no. 4, pp. 415-418, 2012.*(DOI: 10.7763/IJMLC)*   **[SCOPUS]**

[J46] **P. K. Gupta** and G Singh, "A framework of creating intelligent power profiles in operating systems to minimize power consumption and greenhouse effect caused by computer systems," *Journal of Green Engineering,* vol. 1, no. 2, pp. 145 – 163, 2011. *(ISSN (Online): 2245-4586)*   **[SCOPUS]**

[J47] **P.K. Gupta,** Sanjeev Patel, Arjun Garg, Prateek Mehrotra and Manish Chhabra, "Comparative Analysis of Congestion control Algorithms using NS-2", IJCSI International Journal of Computer Sciences Issues, Vol. 8, Issue 5, No 1, pp 89 – 94, September 2011. *(ISSN (Online): 1694-0814)*

[J48] **P.K. Gupta,** Pardeep Kumar, Manoj Diwakar and Vivek kumar Sehgal, "Effective Ways of Secure, Private, and Trusted Cloud Computing", International Journal of Computer Sciences Issues, Vol. 8, Issue 3, May2011.*(ISSN (Online): 1694-0814)*

[J49] **Pradeep Kumar Gupta** and Raghav Mehra, *"Enhancing the OSI reference model and implementation of ISO27K for improving ISMS"* Review of Business and Technology Research, Vol 1, No.1, Jul – Aug 2008, *(ISSN 1941-9414)*

Peer Reviewed Conferences (National/International):

[C1] Prisha Gupta and **P. K. Gupta**, "Performance Analysis of GCN, GNN, and GAT Models with Differentiable Pooling for Detection of Fake News," 3rd Edition of IEEE Delhi Section Flagship Conference (DELCON), pp.1-5, 2024.

[C2] Vriti Sharma, Ritik Raushan, Ruchi Verma, **PK Gupta**, "Speech Emotion Recognition Using GRU and LSTM," *2024 IEEE Region 10 Symposium (TENSYMP)*, pp.1-5, IEEE, 2024.

[C3] Seejal Seejal, Harish Kumar, Anuradha Taluja, Ekta Gandotra, **PK Gupta**, "Arduino-Powered Sonar Radar MOKSH: Design, Implementation, and Applications," *2024 1st International Conference on Advanced Computing and Emerging Technologies (ACET)*, pp. 1-6, IEEE, 2024.

[C4] Righa Tandon, Ajay Verma, and **P.K. Gupta**, "5G-LRVN: Latency Reduction Framework for software-defined vehicular networks," *2024 1st International Conference on Advanced Computing and Emerging Technologies (ACET)*, IEEE, Ghaziabad, India, 2024. [Accepted]

[C5] Righa Tandon, Ajay Verma, and **P. K. Gupta**, "RVTN: Recommender system for vehicle routing in transportation network", 7th*Proceedings of the International Conference on Parallel, Distributed and Grid Computing (PDGC)*, JUIT, Waknaghat, Solan, 25-27 November 2022, pp.352-356.

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[C8] Pankaj Sharma and P.K. Gupta, **"**An Efficient Mobility Aware Scheduling Algorithm,**"***International Conference on Artificial Intelligence and Data Science (ICAIDS-2022)*, pp.363-373, 2022.

[C9] Saurabh, S., Gupta, P.K.,"2D-CNN Model for Classification of Neural Activity Using Task-Based fMRI",*2022 Sixth International Conference on Advances in Computing and Data Sciences. ICACDS 2022*. Communications in Computer and Information Science, vol 1613. Springer, Cham., 2022, pp. 1-15.DOI: https://doi.org/10.1007/978-3-031-12638-3_17

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[C13] Sudhanshu Saurabh and P. K. Gupta, "Functional Brain Image Clustering and Edge Analysis of Acute Stroke Speech Arrest MRI," *2021 Thirteenth International Conference on Contemporary Computing (IC3-2021) (IC3 '21)*. Association for Computing Machinery, New York, NY, USA, pp.234–240, 2021. DOI: https://doi.org/10.1145/3474124.3474207 **[SCOPUS]**

[C14] S. Varshney, R. Sandhu, and P. K. Gupta, "QoE-based Resource Management of Applications in the Fog Computing Environment using AHP Technique," *2021 6th International Conference on Signal Processing, Computing and Control (ISPCC)*, 2021, pp. 669-673, doi: 10.1109/ISPCC53510.2021.9609479. **[SCOPUS]**

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[C26]   Sunil Kumar Sharma, **P.K. Gupta,** Reza Malekian, "Energy Efficient Software Development Life Cycle," 2015 IEEE International Conference on Computer Graphics, Vision and Information Security (CGVIS), Bhubaneswar, India, pp.1-5, 2015.   **[SCOPUS]**

[C27]   Gunjan Gugnani, S.P. Ghrera, **P.K. Gupta,** Reza Malekian, B. T. J. Maharaj,"Implementing DNA Encryption Technique in Web Services to Embed Confidentiality in Cloud," 2nd International Conference on Computer and Communication Technologies - IC3T 2015, India.   **[SCOPUS]**

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