

Name of the Faculty : Prof. Somsubhra Gupta

Designation : Professor

Department : School of Computer Science

No. of Publication :

(Year 2024; Around 15 Book Chapters at Routledge -CRC Press Taylor and Francis etc.. through in house events ICEDC2024, ICISE 2024 are not included)

**Journal Publication:**

Type of Journal	DOI No.	Name of the Article	Name of the Author	ISSN No.
JEET -Scopus	Awaited (provisionally accepted)	Students Activity Recognition through Machine Learning Approaches	N. Chaudhuri, S.Gupta	2349-2473
JEET -Scopus	Awaited (provisionally accepted)	Illustrative Rubric for Accreditation Research Methodology	M. Mukherjee, K. Rajhans, S. Gupta	2349-2473
Baghdad Science Journal - ESCI, Scopus	<a href="https://doi.org/10.21123/bsj.2024.9973">https://doi.org/10.21123/bsj.2024.9973</a>	An Ensemble Model for Predicting Cardiovascular Disease utilizing Nature Inspired Optimization	A.B. Majumder, S.Gupta, D.Singh, S. Majumder	2411-7986
MDPI: Algorithms -ESCI, Scopus	<a href="https://doi.org/10.3390/a16120538">https://doi.org/10.3390/a16120538</a>	Heart Disease Prediction Using Concatenated Hybrid Ensemble Classifiers	A.B. Majumder, S.Gupta, D.Singh, S. Majumder	1999-4893
Science Engineering and Health Studies (SEHS) -Scopus	<a href="https://doi.org/10.69598/sehs.18.24050007">https://doi.org/10.69598/sehs.18.24050007</a>	Intelligent healthcare for cardiac patients utilizing neural networks, k-means clustering, and ad hoc routing	A.B. Majumder, S.Gupta, D.Singh, S. Majumder	2630 – 0087
Journal of Engineering Education Transformation (JEET) -Scopus	Awaited	Interactive Low-Cost Virtual Learning Device NOODLE to get rid of Digital Divide in Outcome Based Education	A,Roy, S. Gupta	2349-2473
Educational Administration: Theory and Practice -Scopus	<a href="https://doi.org/10.53555/kuey.v30i3.3669">https://doi.org/10.53555/kuey.v30i3.3669</a>	Machine Learning driven healthcare through online Gym under the framework of Artificial Life	S. Bhowmik, A. Mandal, A. Bose, S. Singha Roy, A. Vishwakarma, S. Gupta	4718 – 4724
Educational Administration: Theory and Practice -Scopus	<a href="https://doi.org/10.53555/kuey.v30i3.3684">https://doi.org/10.53555/kuey.v30i3.3684</a>	Intelligent System with Food and Nutrition criterion	M. Chowdhury, S. Ghosh, S. Gupta,	4718 – 4724
Journal of Engineering Education	<a href="https://doi.org/10.16920/jeet/2024/v37is2/24036">10.16920/jeet/2024/v37is2/24036</a>	Technology Enhanced Learning driven music inspired LEARN with	S. Gupta, P. Das, B. Neogi, A.	2349-2473

Transformation (JEET)- Scopus		NOODLE model for inclusive education	Roy, M. Sur, M. Maity, T. Majumder,	
Indian Journal of Natural Sciences (IJONS)-WoS	Awaited	Performance Analysis of Different Feature Selection Methodologies in Classification of COVID-19 with Detail Feature Analysis	A. Banerjee Majumder, S. Gupta, D. Singh	0976 - 0997
Indian Journal of Natural Sciences (IJONS) - WoS	Awaited	Heart Disease Prediction using Machine Learning and Multi Agent Systems	C.Thakur, S.K. Gupta, S. Gupta	0976 - 0997
Educational Administration: Theory and Practice -Scopus	<a href="https://doi.org/10.5355/kuey.v30i1.8148">https://doi.org/10.5355/kuey.v30i1.8148</a>	Enhancing Music Classification: Machine Learning Approaches to Song Type Recognition	P. Das, S. Gupta, B. Neogi	4718 – 4724
Educational Administration: Theory and Practice -Scopus	<a href="https://doi.org/10.5355/kuey.v30i1.8149">https://doi.org/10.5355/kuey.v30i1.8149</a>	Noodle: An Innovative, Affordable Virtual Learning Device for Inclusive Education	A. Roy, S.Gupta, P.Das, R.K.Mondal,	4718 – 4724
Educational Administration: Theory and Practice -Scopus	<a href="https://doi.org/10.5355/kuey.v30i1.7969">https://doi.org/10.5355/kuey.v30i1.7969</a>	Ubiquitous Hand held device's SIGMA LFSR driven security model	Atanu Datta, S. Gupta, S. Som	4718 – 4724

#### Book Chapter Publication:

DOI No.	Name of the Article	Name of the Author	ISBN No.	Remarks
Awaited	Analyzing Trust Relationships within Social Networks: A Comprehensive Study	D. Barik, S. Gupta, S. Som	978-1-03202-6053	Industry 5.0: A transformation towards Human centered AI CRC Press Taylor and Francis
Awaited	Evaluation of Autism Screening Tools for Toddlers: A Comparative Approach		978-1-03202-6053	Industry 5.0: A transformation towards Human centered AI CRC Press Taylor and Francis
Awaited	Utilizing Social Network Analysis to Model Social Media Post Popularity with Bayesian Belief Networks	M.K. Srivastav, S. Gupta, S.Som,	Presented. In press	<b>IEEE Xplore International Conference on Big Data Analytics in Bioinformatics (DABCON-24)</b>
<a href="https://doi.org/10.1109/ICMCSI61536.2024.00042">https://doi.org/10.1109/ICMCSI61536.2024.00042</a>	A Heart Disease Prediction Model using Merged XGBoost-SVM Classifier and Particle Swarm Optimization	A. Banerjee Majumdar, S. Majumdar, S. Gupta, D. Singh	979-8-3503-9523-5/24	<b>IEEE Xplore Proceedings - 2024 5th International Conference on Mobile Computing and Sustainable Informatics, ICMCSI, Nepal</b>
Awaited	Emotion Recognition System using Indian Music for Therapeutic Cause	P. Das, S. Gupta, B.Neogi	978-981-	<b>Springer, Smart Innovations, Systems and</b>

			96-1347-2	Technologies (through SSWC 2024)
Awaited	The concept of detecting Autism Spectrum Disorder in Toddlers through Quantum inspired algorithms	D. Barik, S. Gupta S.Som	Accepted, In Press	<b>Springer</b> Lecture Notes in Network and Systems (through ICIDA 2024)
<a href="https://doi.org/10.1007/978-3-031-56481-9_6">https://doi.org/10.1007/978-3-031-56481-9_6</a>	Utilizing Degree Centrality Measures for Product Advertisement in Social Networks	M.K. Srivastav, S. Gupta, V.M. Priyadarshini, S. Som, B. Acharya , V.C.Gerogiannis , A.Kanavos , J. Karamitsos,	978-3-031-56481_9_6	<b>Springer</b> Lecture Notes in Business Information Processing (Through Mediterranean Conference EMCIS2024)
Awaited	Securing the Future: Emerging Threats and Countermeasures in Cryptography	D. Ghosh, K. Ghosh, C. Chakraborty, A. Datta, S. Gupta,	In Press (2025)	Securing the Digital Frontier, K. Sharma Eds. Wiley- Scrivener Pub. Chapter 5
Awaited	Social Network Security for specially designed device to train Toddlers	D. Barik, A.Roy, M.K. Stivastav, A. Datta, S. Som, S. Gupta,	Presented In Press	In proc of ICBITS 2024, San Jose State University, USA

Other Publication Details (if any)

#### Patents

1. Published patent entitled “Interactive Technology driven Low-cost Virtual learning Devices NOODLE for equity to address digital divide”, (Appl. No. 202331012519A) published on 10<sup>th</sup> March 2023.(Joint) [SVU]
2. Published patent entitled “MUSIC THERAPY DEVICE FOR DEAF AND DUMB”, (Appl. No. 202331085483 A) published on 19<sup>th</sup> January 2024.(Joint)
3. Published patent entitled “Robotic vehicle using ATMEGA328 microcontroller, ultrasonic sensor and Bluetooth for wireless control and data feedback, obstacle avoidance and autonomous manoeuvres with precise area scanning”, (Appl. No. 202431006559 A) published on 9<sup>th</sup> February 2024. (Joint) [SVU]
4. Published patent entitled “Hybrid Compiler”, (Appl. No. 202431039789 A) published on 19<sup>th</sup> July 2024. (Joint) [SVU]
5. Published patent entitled “ROBAL: A robotic vehicle with auto balancing”, (Appl. No. 202431040106 A) published on 9<sup>th</sup> August 2024. (Joint) [SVU]
6. Published patent entitled “Smell sensing and actuation using embedded device over the network”, (Appl. No. 202431040109 A) published on 9<sup>th</sup> August 2024. (Joint) [SVU]
7. Published patent entitled “SHARP: A compiler incorporating auto-debugger with floating point arithmetic and Variable length of data”, (Appl. No. 202431056805 A) published on 9<sup>th</sup> August 2024. (Joint) [SVU]