



Dr. Neelam Duhan
B.Tech.(CE), M.Tech. (CE), Ph.D.(CE)
Associate Professor, Department of Computer Engineering
J. C. Bose University of Science and Technology, YMCA
Faridabad, Haryana 121006
INDIA

RESEARCH OBJECTIVES

Proven excellence in the development of a strong rapport with undergraduate/postgraduate students, colleagues and administrators as an academician. Exhibits expertise in the personalized development of strategies and activities to propel learning in Technical Education, specifically in the field of research, with a knack for recognizing and encouraging growth in individuals.

PERSONAL

Name	:	Dr. Neelam Duhan
Date of Birth	:	26 th June, 1980
Phone Number	:	0129- 2310178(Off.)
e-Mail	:	neelamduhan@jcboseust.ac.in neelam.duhan@gmail.com

RESEARCH PROFILES

IRINS: <https://jcboseust.irins.org/profile/113514>

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

Web of Science: <https://www.webofscience.com/wos/author/record/R-4699-2019>

SCOPUS: <https://tinyurl.com/neelam-duhan>

PROFESSIONAL QUALIFICATIONS

- i) **Ph.D** in Computer Engineering from Maharishi Dayanand University, Rohtak (June 2011). Title: A P&P Framework for Knowledge Discovery from World Wide Web
- ii) **M.Tech** in Computer Engineering from Maharishi Dayanand University, Rohtak (2003-05).
- iii) **B.Tech** in Computer Engineering from Kurukshetra University, Kurukshetra (1998-2002).
- iv) Qualified **GATE** in Computer Engineering in 2003.

EMPLOYMENT RECORD

21 Years of Teaching & Research experience in the field of Database Systems, Advanced Database Concepts, Data Mining, Operating Systems, Unix & Shell Programming, Theory of automation, Computer Architecture, Discrete Structures, Machine Learning and Optimization Techniques.

- i) Presently working as Associate Professor (from 14.1.2020) in the Department of Computer Engineering, J. C. Bose University of Science and Technology, YMCA, Faridabad.
- ii) Worked as Assistant Professor from 06.01.2006 to 13.1.2020 in the Department of Computer Engineering, J. C. Bose University of Science and Technology, YMCA, Faridabad.
- iii) Worked as Associate Professor from March 2012 to March 2015 (with lien on substantive post of Assistant Professor) in the Department of Computer Engineering, YMCA University of Science & Technology, Faridabad.
- iv) Worked as Lecturer from Jan 2005 to Dec 2005 in the Department of Computer Science and Engineering, Career Institute of Technology & management, Faridabad.
- v) Worked as Lecturer from Aug 2002 to Oct 2003 in the Department of Computer Engineering, Shri Krishan Institute of Engineering & Technology, Kurukshetra.

AREA OF RESEARCH

- Web Information Retrieval
- Data/Web Mining
- Data Analytics and Machine Learning
- Data Science and exploratory Data Analysis
- Digital Libraries
- Semantic Web and Ontology
- Computer Vision, Image Processing & Video Summarization
- Route Prediction in Transportation Networks

RESEARCH GUIDANCE

i) M. Tech Dissertation :	47 (Completed)
ii) Ph.D :	06 (Completed), 03 (In progress)

PUBLICATIONS SNAPSHOT

Total Number of Publications	:	121
a) Research Papers (Published) International Journals	:	64
b) Research Papers (Communicated)	:	01
c) Research papers in Proceedings of conferences	:	36
d) Presentations in Conferences	:	21

PATENTS AND GRANTS

Design Patent titled “Goggle with Speed Indication”, Design No: 326252-001, Registration Date 16/01/2020, Date of Issue: 10/02/2020, Issued by the Patent Office, Govt of India

Design Patent titled “AI Navigation Stick for Visually Impaired”, Design No: 449349-001, Registration Date 25/02/2025, Date of Issue: 22/05/2025, Issued by the Patent Office, Govt of India

Received funding of Rs 20000 from HSCSIT for National Technology Day celebration during 13-14 May 2021.

Received funding of Rs. 1,85.000 from IIT Madras for NPTEL Awareness Workshop conducted on 31st Jan 2020.

Received funding of Rs 93000 from AICTE vide Application Number 1615794690 for AICTE Training and Learning (ATAL) FDP on Data Science from 14 Sep 2020 to 18 Sep 2020.

Received funding of 1,93,000 from JCBoseUST YMCA for project “Upastithi: Attendance Portal for YMCA” during March 2016-March 2018.

Grant of 4.5 Lacs under AICTE Research Promotion Scheme (RPS) for project "Drishti: An Audio Aid to Visually Impaired Persons for Obstacle Detection and Route Tracking" to develop an automated system for helping the blind persons.

ADMINISTRATIVE & PROFESSIONAL DUTIES (University Level)

- In-charge, Saraswati e-Content Development Centre
- Director, University Computer Centre & Digital Affairs (2019-2024)
- Nodal Officer, Academics, TEQIP-III (2017-2020)
- NBA Co-coordinator at University Level
- NAAC Criterion Coordinator
- Nodal Officer, NTA-NTC
- SPOC, SWAYAM-NPTEL Local Chapter (2018-2024)
- Nodal Officer, e-Office
- Focal Coordinator, IIRS-ISRO Nodal Centre
- Nodal Coordinator, National Academic Depository
- Coordinator, RUSA Purchase/Equipment Committee
- Coordinator, University's COVID helpdesk
- Member Committee, Online University Exams during COVID
- Coordinator, University's Digital Learning Management System
- Coordinator, University's ERP & Faculty IMS
- Club Coordinator, GeeksMan, Official Club of CE Dept
- Member, Academic Council (2024-till date)
- Member, Executive Body, IQAC (2024-till date)
- Member, Board of Studies (PG) (2024-till date)
- Member, Board of Studies (UG) (2022-2024)
- Member, Board of Faculty of Informatics & Computing (2020-22)
- Spot Evaluation Centre Coordinator, Dec 2018, Dec 2019, Dec 2022, June 2023
- Member, Syllabus Review Committee, ECE Deptt
- HSTES Coordinator, B.Tech Admissions 2016, 2017 & 2018
- Coordinator, Merit List Preparation, B.Tech Manual Counselling
- Member, Faculty of Engg & Tech (FET) (2018-20)
- Member, Scrutiny Committees (SA/DR/AR) (2018)
- Member, Online Admission Committee (2017-18)
- Member, Master Plan Evaluation Committee (2017-18)

- Coordinator, University Annual Report (2015-16)

ADMINISTRATIVE & PROFESSIONAL DUTIES (Department Level)

- Ph.D Coordinator (Since 2022)
- M.Tech Coordinator (2015-2022)
- NBA Coordinator, M.Tech
- Club Coordinator, GeeksMan
- Time Table Coordinator (2018-2020)
- Member, Board of Studies PG (2024-till date)
- Member, Board of Studies UG (2021-23)
- Coordinator, MTech Minor Project
- Member, M.Tech Admission Committee 2017-20
- Member, M.Tech Syllabus Revision Committee
- Member, AICTE Model Curriculum revision for B.Tech (CE/CSE)
- MOOC Coordinator (2018-22)
- Member, PhD Admission Committee-2017-2021
- Worked as Departmental CBS Examination Coordinator
- Worked as member of Moderation Committee
- Prepared lab Manuals for OS, DBMS, UNIX & Shell Programming, ADBMS
- Coordinator, Research Lab

PROFESSIONAL MEMBERSHIPS

- Life Time Member, ISTE (LM- 108672)
- Life Time Member, CSI (LM- 2010000533)
- Life Time Member, IE (M-165591-9)
- Life Time Member, IAENG (LM- 167165)
- Annual Member, IET (M- 1100799992)
- Life Time Member, Indian Science Congress (L41293)

AWARDS & DISTINCTIONS

- AICTE's Visvesarya Best Teacher award by Education Minister, India in 2021 for contribution in Technical Education
- Governor Chancellor Gold Medal award by Hon'ble Governor Haryana for teaching excellence in 2021
- Awarded by District administration and IMA for Jeevisha Tele-consultancy services during COVID in 2021
- CIEMA Research Excellence Award in 2022 during CIEMA International Conference
- Awarded for Selfless services during COVID-19 Pandemic by Red Cross Society in 2020
- Awarded for fostering the Ecosystem bridging Govt, Academia and Industry by AICTE & Texas Instruments in 2020
- National NPTEL SPOC Award (Aug 2019, Jan 2020, Jan 2021, Jan 2022, Jul 2023, Jan 2024)
- Awarded "Influential Woman Award" by Vocal-for-Local Delhi NCR in Oct 2021

- Awarded the Powerful Women Award as Educationist and Social Activist in March, 2022 in Constitution Club of India, New Delhi.
- Won Academic Excellence Award in 2011 and 2012 in the University.
- Academic Research Award in 2019, 2020 in the University.
- Gold Certification & Top 1% Award by NPTEL (Sep 2018)
- Certification for NPTEL Content Augmentation Efforts (May 2020)
- Won various prizes and certificates in Painting, Clay Modeling Competitions at District and State level.

KEY DEVELOPMENTS

- Design & developed Admission Portal of the University
- Established Saraswati e-Content Development Centre (an LCS Facility) in the University
- Design & Developed Website of University
- Key role in onboarding of Samarth e-Govt Suite in the university.
- Set-up a Digital Learning Management System during COVID to continue Teaching-Learning processes of the University
- Design & developed a Faculty Information Management System for gathering research profiles of faculty members
- Set-up a COVID helpdesk with 200+ student volunteers in 10 cities to help the needy during COVID pandemic
- Set up 13 Digital Classrooms in the University with Grant received from NPIU during Jan 2020
- Set up 9 Digital Notice Boards in the University to replace conventional notice boards

STC/REFRESHER COURSES/ORIENTATION PROGRAMME/ WORKSHOPS ATTENDED

S.No	NAME OF FDP/STC/Workshop	Sponsoring Authority	Venue	Duration (From)	Duration (to)
1	FDP on Enhancing Teaching Learning Process in Engg. Discipline	AICTE	CITM, Faridabad	4/07/2005	15/07/2005
2	Induction Training Program for Newly Recruited Technical Teachers	NITTTR	YMCA, Faridabad	17/07/2006	28/07/2006
3	Effective Curriculum Implementation	NITTTR	YMCA, Faridabad	04/09/2006	08/09/2006
4	Applications of Advance Computing Technologies	AICTE	AIACTR, New Delhi	02/01/2012	14/01/2012
5	IT for Modeling and Executing Business Processes	AICTE	MRCE, Faridabad	28/05/2012	01/06/2012
6	Application of AI tools in Power Systems	YMCAUST	YMCAUST, Faridabad	19/06/2012	25/06/2012
7	Workshop on Nano Technology and Embedded Systems	YMCAUST	YMCAUST, Faridabad	23/07/2012	03/08/2012
8	Emerging Trends in Engg. Tech. and Management	ISTE	YMCAUST, Faridabad	01/07/2013	14/07/2013

9	Applications of MATLAB and SPSS in Research	ISTE	YMCAUST, Faridabad	22/07/2014	28/07/2014
10	Emerging behavioral Aspects in Technical Education	AICTE	YMCAUST, Faridabad	20/04/2015	01/05/2015
11	Neural Networks using MATLAB	YMCAUST	YMCAUST, Faridabad	01/06/2015	05/06/2015
12	Workshop on Protecting and Exploring IPRs	DeitY	YMCAUST, Faridabad	19/10/2015	20/10/2015
13	Artificial Neural Networks	NITTTR	YMCAUST, Faridabad	25/04/2016	29/04/2016
14	Workshop on Technology and Innovation	DST, Haryana	YMCAUST, Faridabad	11/05/2016	11/05/2016
15	Environment Development and sustainability	NITTTR	YMCAUST, Faridabad	04/07/2016	08/07/2016
16	FDP on Big data Analytics and Data/Text Mining using SPSS	YMCAUST & SPSS	YMCAUST, Faridabad	19/12/2016	24/12/2016
17	Workshop on Women Health awareness and Depression	YMCAUST	Rotary Club of Faridabad, Sanskar	07/04/2017	07/04/2017
18	New Education Policy: Expectations & Challenges	YMCAUST	Bhartiya Shikshan Mandal, Haryana	29/04/2017	29/04/2017
19	National seminar on Technology- A Step towards implementation of Ideas	YMCAUST	HSCST, Haryana	09/05/2017	09/05/2017
20	FDP on Real Time Data Acquisition & Analysis using lab View	YMCAUST	YMCAUST, Faridabad	08/05/2017	12/05/2017
21	Workshop on Search and Use of E-resources in a Better Way	YMCAUST	YMCAUST, Faridabad	05/05/2017	05/05/2017
22	Refresher Course on Emerging Trends in Computer Science	TEQIP-III	YMCAUST, Faridabad	08/01/2018	13/01/2018
23	FDP on Intelligent Management of Renewable Energy Technologies	TEQIP-III	YMCAUST, Faridabad	18/01/2018	23/01/2018
24	OBE Workshop on Outcome based Accreditation for Under-graduate Engineering Program	Mech. Engg Deptt, YMCAUST	YMCAUST, Faridabad	02/05/2018	03/05/2018
25	STC on Life Skills Development	NITTTR, Chandigarh	YMCAUST, Faridabad	09/07/2018	13/07/2018
26	FDP on Data Science & Big Data Analytics	ICT Academy & DELL EMC	YMCAUST, Faridabad	28/08/2018	01/09/2018
27	International Conference on Digital Pedagogies	JISCE, Microsoft, NPIU	AICTE, Delhi	01/04/2019	03/04/2019
28	Microsoft Workshop on Transforming Education through Technology	Microsoft	AICTE, Delhi	03/04/2019	03/04/2019
29	STC on Data Analytics	NIT, KKR & AEoN Learning Pvt. Ltd.	NIT Kurukshetra	26/06/2019	30/06/2019
30	SPOC Felicitation Workshop	IIT Kanpur	IIT Kanpur Outreach Auditorium	03/08/2019	03/08/2019
31	Workshop on Internet of Things	TEQIP-III	JCBoseUST, YMCA, Faridabad	20/09/2019	21/09/2019
32	Workshop on Data Analytics	TEQIP-III	JCBoseUST, YMCA, Faridabad	18/10/2019	25/10/2019

33	BRIDGE-2019, High Impact Industry Institute Interaction Event of India	ICT Academy	AICTE, Delhi	11/12/2019	11/12/2019
34	Workshop on Writing Good research publications & use of e-resources effectively	TEQIP-III	JCBoseUST, YMCA, Faridabad	17/01/2020	20/01/2020
35	NPTEL Workshop	IIT Madras	JCBoseUST, YMCA, Faridabad	31/01/2020	31/01/2020
36	SPOC Felicitation Workshop	IIT Kanpur	IIT Kanpur Outreach Centre Noida	01/02/2020	01/02/2020
37	Workshop on Hands-on Training on IoT Modules	TEQIP-III	JCBoseUST, YMCA, Faridabad	24/02/2020	29/02/2020
38	2-Weeks course on Digital Transformation in Teaching Learning Process	TEQIP-III NPIU	Online on SWAYAM via IIT Bombay	14/02/2020	06/03/2020
39	2-Weeks course on Digital Transformation in Teaching Learning Process	TEQIP-III NPIU	Online on SWAYAM via IIT Bombay	06/04/2020	22/04/2020
40	SPOCATHON event	NPTEL	Online Via IIT Madras	17/05/2020	17/05/2020
41	The BodhiTree and SAFE Tools for Effective Online Teaching: A Hands-On Workshop	PMMMNMTT, MHRD, Govt. of India	Online via IIT Bombay	18/06/2020	24/06/2020
42	FDP on Data Analytics using R	TEQIP-III	Online, JCBoseUST, YMCA, Faridabad	11/07/2020	15/07/2020
43	NPTEL, 01 Week AICTE FDP on Database Management System	NPTEL, AICTE	Online	Jul 2018	Sep 2018
44	NPTEL, 01 Week AICTE FDP on Descriptive Stats with R Software	NPTEL, AICTE	Online	Jan 2019	Apr 2019
45	NPTEL, 01 Week AICTE FDP on Introduction to Machine Learning Jul-Sep 2019	NPTEL, AICTE	Online	Jul 2019	Sep 2019
49	Professional Development Training Programme for Faculty & Administrators of Project Institutions of TEQIP-III	National Project Implementation Unit, Ministry of Education, Government of India	Online, Indian Institute of Management, Visakhapatnam	07/12/2020	09/12/2020
50	Workshop on R beginner for data science	National Mission on Education through ICT, MoE, Govt. of India	Online, Teaching Learning Centre (ICT), IIT Bombay	28/01/2021	30/01/2021
51	Management Development Programme on Professional Development Training to TEQIP-III Institutions	National Project Implementation Unit, Ministry of Education, Government of India	Online, Indian Institute of Management, Kozhikode	01/03/2021	06/03/2021
52	FDP on NAAC Revised Accreditation Framework and Quelling the Quest	Paramarsh, UGC New Delhi	Online, Aggarwal College, Ballabgarh	11/03/2021	17/03/2021

53	STTP on Recent Advancements in Artificial Intelligence and Machine Learning	AICTE	Online, JCBoseUST, YMCA, Faridabad	22/03/2021	27/03/2021
54	Workshop on Strategies for Academic Research and Publications	JCBoseUST, YMCA, Faridabad	Online, CE Deptt, JCBoseUST, YMCA, Faridabad	26/05/2021	26/05/2021
55	Hands-On Workshop on Virtual labs	JCBoseUST, YMCA, Faridabad	Online, University Computer Centre & Digital Affairs, JCBoseUST, YMCA, Faridabad	03/06/2021	03/06/2021
56	Workshop on Intellectual Property Rights	JCBoseUST, YMCA, Faridabad	Online, R&D Section, JCBoseUST, YMCA, Faridabad	19/06/2021	19/06/2021
57	FDP on Cardinal Role of Quality Education in Developing Self Reliant India	Aggarwal College Ballabgarh in collaboration with Higher Education, Haryana	Online, Aggarwal College, Ballabgarh	07/07/2021	14/07/2021
58	NEP 2020: Academic Bank Of Credit (ABC)	UGC, Human Resource Development Centre	Online, Guru Ghasidas Vishwavidyalaya, Bilaspur	27/06/2022	27/06/2022
59	Technical webinar on Computer Vision and IoT	Institution of Engineers (India) under the aegis of Electronics and Telecommunication Engineering Division	Online	21/07/2022	21/07/2022
60	FDP on Computer Vision and Image Processing	AICTE	JCBoseUST, YMCA, Faridabad	30/05/2022	03/06/2022
61	SPOC Awareness cum Felicitation Workshop	NPTEL, IIT Kanpur	IIT Kanpur Outreach Centre	01/07/2023	01/07/2023
65	NPTEL 1-week AICTE FDP on Linear programming and its applications to computer science	NPTEL AICTE	Online	Feb 2025	April 2025
66	NPTEL 1/2-week AICTE FDP Outcome Based Pedagogic Principles for Effective Teaching	NPTEL AICTE	Online	Feb 2025	March 2025
67	FDP on Data Science & ML	NITTTR Chandigarh	JCBoseUST YMCA Faridabad	18/08/2025	22/08/2025

BOOKS AND BOOK CHAPTERS

Edited Books:

Multimedia Computing Systems and Virtual Reality, CRC Press, Taylor & Francis, ISBN: 978-1-032-04823-9 (hbk) ISBN: 978-1-032-05233-5 (pbk) ISBN: 978-1-003-19668-6 (ebk) DOI: 10.1201/9781003196686, 2022, Edited by Rajeev Tiwari, Neelam Duhan, Mamta Mittal, Abhineet Anand and Muhammad Attique Khan

Book Chapters

1. "DBCCOM: Density Based Clustering with Constraints and Obstacle Modeling", Communications in Computer and Information Science book series (CCIS, volume 168), Springer, Berlin, Heidelberg , Online ISBN: 978-3-642-22606-9
2. "A Novel Approach for Semantic Prefetching Using Semantic Information and Semantic Association", Big Data Analytics, Springer Singapore 2018, Online ISBN: 978-981-10-6620-7
3. "Collaborative Filtering Based Recommender System". ICT Based Innovations, Springer Singapore 2018, Online ISBN: 978-981-10-6602-3
4. "EasyOnto: A Collaborative Semi Formal Ontology Development Platform", Nature Inspired Computing, Springer Singapore 2018, Online ISBN: 978-981-10-6747-1
5. "Evolution of FOAF and SIOC in Semantic Web: A Survey", Big Data Analytics, Springer Singapore 2018, Online ISBN: 978-981-10-6620-7
6. "Ontological Extension to Multilevel Indexing", Innovations in Computational Intelligence, Springer Singapore 2018, Online ISBN: 978-981-10-4555-4
7. "A Fuzzy Logic Based Synonym Resolution Approach for Automated Information Retrieval", Natural Language Processing, IGI Global, Information Resources Management Association (USA), May 2020, ISBN: 978-179-98-0951-7
8. "Image Systems and Visualizations", Multimedia Computing Systems and Virtual Reality, CRC Press, Taylor & Francis, ISBN: 978-1-032-04823-9 (hbk) ISBN: 978-1-032-05233-5 (pbk) ISBN: 978-1-003-19668-6 (ebk) DOI: 10.1201/9781003196686, 2022, pp:45-78
9. "Image preprocessing and quality analysis techniques for skin lesion detection using peak signal-to-noise metrics". PROGRESSIVE COMPUTATIONAL INTELLIGENCE, INFORMATION TECHNOLOGY AND NETWORKING, Taylor and Francis, ISBN: 9781003650010 (ebk), DOI: <https://doi.org/10.1201/9781003650010> , 22 Jul 2025, Pp: 565-569

Book Articles

1. Neelam Duhan, "Significance of Digital Education Methods in Post COVID Period". In Managing Education: Post COVID Challenges and Opportunities, Haryana State Higher Education Council, 2022, pp: 205-225

LIST OF PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Neelam Duhan, A. K. Sharma. "A Novel Approach for Organizing Web Search Results using Ranking and Clustering". *International Journal of Computer Applications*, Vol. 5(10), pp: 1-9, August 2010. Published By Foundation of Computer Science.
2. Neelam Duhan, A. K. Sharma, "Rank Optimization and Query Recommendation in Search Engines using Web Log Mining Techniques". *Journal of Computing*, Vol-2, Issue-12, Dec. 2010, ISSN 2151-9617, PP: 97-104.
3. Neelam Duhan, A. K. Sharma, "QUESEM: Towards building a Meta Search System utilizing Query Semantics". *IJCSI International Journal of Computer Science Issues*, Vol. 8, Issue 1, January 2011, ISSN (Online): 1694-0814, pp: 145-154.
4. A. K. Sharma, Neelam Duhan, Gyanendra Kumar, "A Novel Page Ranking Method based on Link-Visits of Web Pages". *International Journal of Recent Trends in Engineering and Technology*, Vol. 4, No. 1, Nov. 2010, pp: 58-63.
5. Ranjna Gupta, Neelam Duhan, A. K. Sharma, "Query Based Duplicate Data Detection on WWW". *International Journal on Computer Science and Engineering (IJCSE)*, Vol. 02, No. 04, 2010, pp: 1395-1400.
6. A. K. Sharma, Neelam Duhan, "Optimization of Search Results with Duplicate Page Elimination using Usage Data". *ACEEE International Journal on Network Security*, USA, Vol. 02, No. 02, Apr 2011, pp: 32-37. DOI: 01.IJNS.02.02.230.
7. Mamta Mittal, A. K. Sharma, Neelam Duhan, Lalit Mohan Goyal, "A Dynamic-Means Partitioning based Clustering Algorithm for Automatic Discovery of Data Clusters". *International Journal on Information and Communication Technologies*, Vol. 1, No. 3-4, July-December 2008, pp. 95-100.

8. Neelam duhan, A. K. Sharma, "A Novel Approach for Organizing Web Search Results using Ranking and Clustering". International Journal of Applied Information Systems (IJAIS), ISSN: 2249-085X Foundation of Computer Science FCS, New York, USA Vol. 1, No.1, October 2011, pp: 8-16.
9. Neelam Duhan, A.K. Sharma, "A Framework for utilizing Usage Trends in the Crawling and Indexing Process of Search Engines". International Journal of Knowledge and web intelligence (IJKWI), Inderscience Publishers, ISSN (Online): 1755-8263, Vol. 2, No. 4, 2011, pp: 272-291.
10. Mamta Kathuria, Neelam Duhan, C.K.Nagpal, "Application of Fuzzy Logic in Web Mining Domain: A Survey". International Journal of Advanced Research in IT and Engineering, ISSN: 2278-6244, Vol. 1, No. 3, September 2012, pp: 1-16.
11. Tushar Atreja, A. K. Sharma, Neelam Duhan, "A comparison study of Web Page Ranking Algorithms". International journal of Advances in Computing and Information Technology, ISSN 2277-9140, DOI: 10.6088/ijacit.12.13013, Vol 1(3), July 2012, pp: 335-344.
12. Sumita Gupta, Neelam Duhan, Poonam Bansal, "A Comparative Study of Page Ranking Algorithms for Online Digital Libraries". International Journal of Scientific & Engineering Research, Volume 4, Issue 4, April 2013, ISSN 2229-5518, pp:1225-1233.
13. Usha Yadav, Neelam Duhan, Bhawna Kaushik, "Relevant Page Retrieval and Query Recommendation using Semantic Analysis of Queries". International Journal of Scientific & Engineering Research, Volume 4, Issue 7, July 2013, ISSN 2229-5518, pp: 694-703.
14. Shikha Singla, Neelam Duhan, Usha Kalkal "A Novel Approach for Document Ranking in Digital Libraries using Extractive Summarization". International Journal of Computer Applications (0975 – 8887) Volume 74– No.18, July 2013, pp:25-31.
15. Mayank Arora, Neelam Duhan, "Design of Query Suggestion System using Search Logs and Query Semantics". International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 2, Issue 6, June 2013, ISSN 2319 – 4847, pp: 302-313.
16. Sonia Setia, Jyoti, Neelam Duhan, "Survey of Recent Web Prefetching Techniques". International Journal of Research in Computer and Communication Technology, Vol 2, Issue 12, December- 2013, ISSN: 2278- 5841, pp: 1465-1469.
17. Sangeeta, Neelam Duhan, "An Elaborative Survey on Recommendation Techniques". Advances in Computer Science and Information Technology, ISSN: 2393-9915, Vol. 2, No. 9, Apr-June 2015, pp: 1-5.
18. Amrita Kaur, Neelam Duhan, "A Survey on Sentiment Analysis and Opinion Mining". International Journal of Innovations & Advancement in Computer Science, ISSN 2347 – 8616, Volume 4, Special Issue May 2015, pp: 108-116.
19. Ranjna Jain, Neelam Duhan, A. K. Sharma, "Comparative Study on Semantic Search Engines". International Journal of Computer Applications, ISSN 0975 – 8887, Volume 131 – No.14, December 2015, pp: 4-11.
20. Sangeeta, Neelam Duhan, Amrita Malhotra, "A Novel Approach for Recommendation Based On Collaborative Filtering". Journal of Network Communications and Emerging Technologies (JNCET) Volume 5, Special Issue 2, December (2015), 2395-5317.
21. Neelam Duhan, Amrita Kaur, Sangeeta, "Lexicon Based Opinion Mining System using Hadoop". Journal of Network Communications and Emerging Technologies (JNCET) Volume 5, Special Issue 2, December (2015).
22. Usha Yadav , Gagandeep Singh Narula, Neelam Duhan , Vishal Jain and B. K.Murthy, "Development and Visualization of Domain Specific Ontology using Protégé". Indian Journal of Science and Technology, Vol 9(16), DOI: 10.17485/ijst/2016/v9i16/88524, April 2016. ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645
23. Usha Yadav, Gagandeep Singh Narula, Neelam Duhan and Vishal Jain, "Ontology Engineering and Development Aspects: A Survey". International Journal of Education and Management Engineering, MECS Publisher, ISSN: 2305-8463, May 2016, Vol. 6(3), pp: 9-19.
24. Mamta Kathuria, C. K. Nagpal, Neelam Duhan, "Journey of Web Search Engines: Milestones, Challenges & Innovations". International journal of Information Technology and Computer Science, MECS Publisher, ISSN: 2074-9015, Dec. 2016, pp: 47-58. DOI: 10.5815/ijitcs.2016.12.06
25. Neelam Duhan, Parul Tomar, Amit Siwach, "PFIMII: Parallel Frequent Itemset Mining using Interval Intersection". International Journal of Computer Applications (0975 – 8887). Volume 156 – No.13, December 2016, pp:10-15
26. Gagandeep Singh Narula, Usha Yadav, Neelam Duhan, Vishal Jain, "Lexical, Ontological & Conceptual Framework of Semantic Search Engine (LOC-SSE)". BIJIT- BVICAM's International Journal of Information Technology, Vol 8(2), July-Dec 2016, ISSN: 0973-5658, pp: 1004-1010

27. Ranjna Jain, Neelam Duhan, A. K. Sharma, "Design of Building Automatic Global Concept Indexer for Ontology Alignment". International Journal of Engineering and Technology (IJET), ISSN (Online) : 0975-4024, Vol 9 No 3, Jun-Jul 2017, pp: 1532-1541 (Scopus, UGC-145).
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29. Sumita Gupta, Neelam Duhan, Poonam Bansal, "Efficient Method of Retrieving Digital Library Search Results using Clustering and Time Based Ranking". International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 22 (2017) pp. 12305-12314 (SCOPUS)
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