



Dr. Kuldeep Singh

Personal Profile

I am working as Assistant Professor at Department of Computer Science, University of Delhi, Delhi-110007, India. I have completed my Ph.D. from Indian Institute of Technology (Banaras Hindu University) Varanasi. My research area includes Influence Maximization, Community Detection, Utility Itemset Mining, and Social Network Analysis.

Professional Qualifications

- 2013 – 2018 Ph.D. Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi, India.
- 2010 Master of Technology, Department of Computer Science and Engineering, Guru Jambheshwar University of Science & Technology, Hisar, Haryana, India
- 2008 Master of Computer Applications, Department of Computer Science and Engineering, Guru Jambheshwar University of Science & Technology, Hisar, Haryana, India

Ph.D. Thesis

- Title *Mining High Utility Itemsets with Positive and Negative Utility Values*
- Supervisor Dr. Bhaskar Biswas, Associate Professor, IIT (BHU), Varanasi.
(Submitted– 27th April 2018, Viva-Voce– 29th Oct. 2018.

M.Tech. Dissertation

- Title *Improved FP growth algorithm for mining association rules*
- Supervisor Dr. Sajoj, Professor, Guru Jambheshwar University of Science & Technology, Hisar, Haryana, India

Professional Experience

- Organization **University of Delhi, Delhi.**
- Job Title **Assistant Professor.**
- Duration **2th (AN) December 2020 – till date.**
- Students **MCA. & M.Sc..**
- Responsibilities **Teaching & Research.**

Organization **Govt. College Hansi, Haryana.**
Job Title **Assistant Professor.**
Duration **5th February 2018 – 2nd December 2020.**
Students **B.Sc. & BCA.**
Responsibilities **Teaching & Research.**

Organization **Indian Institute of Technology (BHU), Varanasi.**
Job Title **Research Scholar & Teaching Assistant.**
Duration **23rd July 2013 – 27th April 2018.**
Students **B.Tech & M.Tech.**
Responsibilities **Research & Teaching.**

Organization **Gurgaon College of Engineering, Gurugram, Bilaspur-Tauru Road, Gurugram, Haryana-122413.**
Job Title **Assistant Professor.**
Duration **16th August 2010 – 22nd July 2013.**
Students **B.Tech & M.Tech.**
Responsibilities **Teaching, Research & Administrative responsibilities.**

Research Projects

Title **QR-AR based Smart Indoor Navigation with Crowd Management.**
Sponsoring/
Funding
Agency **Institution of Eminence, University of Delhi, Delhi.**
Role **Principal Investigator.**
Duration **One Year (October 29, 2021 to June 30, 2022).**
Amount **Rs. 1,75,000/-.**
Status **Completed.**

Title **Mining of High Utility Sequential Patterns using Evolutionary Techniques.**
Sponsoring/
Funding
Agency **Institution of Eminence, University of Delhi, Delhi.**
Role **Principal Investigator.**
Duration **Three years (August 01, 2022 to July 31, 2025).**
Amount **Rs. 10,30,000/-.**
Status **(Completed).**

Research Awards

- Research Publication Award- Nov,2024 **A grant of Rs. 70,000 from the Institution of Eminence, University of Delhi, for our paper titled "Diversified Budgeted Influence Maximization in Dynamic Social Networks", published in the top-ranked journal 'IEEE Transactions on Computational Social Systems'.**
- Research Publication Award- May,2025 **A grant of Rs. 35,000 from the Institution of Eminence, University of Delhi, for our paper titled "DCDIM: Diversified influence maximization on dynamic social networks", published in the top-ranked journal 'Computer Communications'.**
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Journal Editorial Board:

- Nature **Scientific Reports, Editorial Board Member.**
- Public Library of Science **PLOS ONE, Academic Editor.**

Faculty Induction Programme / Orientation / Refresher Courses:

- Duration **October 03, 2020 to October 31, 2020.**
- Organization **Human Resource Development Centre of Punjabi University, Patiala, Punjab.**
- Topic **UGC-Sponsored Faculty Induction Programme (Orientation Programme).**

MOOCs / Online courses:

- Duration **Four weeks online Course, Completed on June 22, 2022.**
- Organization **Coursera.**
- Topic **Pattern Discovery in Data Mining.**

M.Tech Thesis Supervision

- Name **Gurjeet Kaur.**
- Title **Face Detection using Proposed Model.**
- Duration **2012-2013.**

Awards, Fellowships, and Grants

- MHRD Ph.D. Scholarship **For Ph.D. from 2013-2018, Indian Institute of Technology (BHU), Varanasi.**
- UGC-NET/JRF **Qualified JRF in December – 2012, conducted by UGC, India.**
- UGC-NET **Qualified National Eligibility Test (NET) in June – 2012, conducted by UGC, India.**
- GATE **Qualified GATE (Computer Science & Information Technology) in 2009, conducted by IIT Roorkee, India.**

Professional Membership

IEEE Membership ID # 94403043
ACM Membership ID # 1197007
IEI (India) Membership ID # AM1757094
IETE Membership ID # AM 500867
ICSES Membership ID # 764
CSI Membership ID # 2010000469
SIAM Membership ID # 020861933
IAENG Membership ID # 111844
SDIWC Membership ID # 21418
ISOC Membership ID # 192583
UACEE Membership ID # SNM10100059321
CSTA Membership ID # 49864921

Research ID

ORCID ID 0000-0001-5289-362X
Google J0tK1vwAAAAJ
scholar ID
Scopus ID 56449820100
ResearcherID V-8371-2018

References

- Dr. Bhaskar Biswas Professor, Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi – 221 005, Uttar Pradesh. India.
e-mail: bhaskar.cse@iitbhu.ac.in, Mob. +91– 9415619051
- Dr. Sanjay Kumar Singh Professor, Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi – 221 005, Uttar Pradesh. India.
e-mail: sks.cse@iitbhu.ac.in, Mob. +91– 9554321133
- Dr. Ravi Shankar Singh Professor, Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi – 221 005, Uttar Pradesh. India.
e-mail: ravi.cse@iitbhu.ac.in, Mob. +91– 9935883500
- Dr. Dinesh Kumar Professor, Department of Electronics & Communication Engineering, Delhi Technological University (DTU), Delhi – 110042, India.
e-mail: dineshkumar@dtu.ac.in, Mob. +91– 9896065440

Publications

Journal (indexing in SCI)

- August, 2025 Sunil Kumar Meena, Shashank Sheshar Singh, **Kuldeep Singh**, *Achieving Fair Influence Maximization: Integrating Privacy, Diversity, and Temporal Fairness*, **IEEE Transactions on Network Science and Engineering**, **Impact Factor: 7.9**, ISSN:2327-4697, volume xxx, issue-xx, pages 1-14, DOI:10.1109/TNSE.2025.3598819.
- June, 2025 Sunil Kumar Meena, Shashank Sheshar Singh, **Kuldeep Singh**, *Exploring Influence Maximization in Criminal Social Networks to Identify Key Individuals and Patterns*, **IEEE Transactions on Computational Social Systems**, **Impact Factor: 4.9**, ISSN:2329-924X, volume xxx, issue-xx, pages 1-10, DOI:10.1109/TCSS.2025.3571963.
- June, 2025 Shashank Sheshar Singh, Shashank Singh, **Kuldeep Singh**, Vishal Srivastava, and Harish Kumar Shakya, *Big Data meets Social Networks: A Survey of Analytical Strategies and Research Challenges*, **IEEE Access**, **Impact Factor: 3.6**, ISSN: 2169-3536, volume 13, issue-xx, pages 98668-98698, DOI:10.1109/ACCESS.2025.3576143.
- June, 2025 Sunil Kumar Meena, **Kuldeep Singh**, Bhaskar Biswas, *Fairness-aware influence maximization: A novel Learning Automata-based approach*, **Expert Systems with Applications (Elsevier)**, **Impact Factor: 7.5**, ISSN: 0957-4174, volume 280, pages 1-13 (127445), DOI:10.1016/j.eswa.2025.127445.
- April, 2025 Rajiv Kumar, **Kuldeep Singh**, *Mining of High Utility Itemsets from Incremental Datasets: A Survey*, **The Knowledge Engineering Review (Cambridge University Press)**, **Impact Factor: 2.0**, ISSN: 0269-8889, volume 40, issue-e1, pages 1-46, DOI:10.1017/S0269888925000013.
- March, 2025 Sunil Kumar Meena, Shashank Sheshar Singh, **Kuldeep Singh**, *Pruning-enabled dynamic influence maximization using antlion optimization*, **Knowledge-Based Systems (Elsevier)**, **Impact Factor: 7.6**, ISSN: 0950-7051, volume 317, pages 1-13 (113406), DOI:10.1016/j.knosys.2025.113406.
- March, 2025 Rishabh, Dharendra Kumar, Yogendra Meena and **Kuldeep Singh**, *Respiratory sound classification utilizing human auditory-based feature extraction*, **Physica Scripta (IOP Science)**, **Impact Factor: 2.6**, ISSN: 0031-8949, volume 100, issue-4, pages 1-13 (046003), DOI:10.1088/1402-4896/adb80f.
- January, 2025 Sunil Kumar Meena, Shashank Sheshar Singh, **Kuldeep Singh**, *DCDIM: Diversified Influence Maximization on Dynamic Social Networks*, **Computer Communications (Elsevier)**, **Impact Factor: 4.3**, ISSN:0140-3664, volume 232, issue-xx, pages 108045, DOI:10.1016/j.comcom.2025.108045.

- December, 2024 Shashank Sheshar Singh, Sumit Kumar, Sunil Kumar Meena, **Kuldeep Singh**, Shivansh Mishra, Albert Y. Zomaya, *Quantum social network analysis: Methodology, implementation, challenges, and future directions*, **Information Fusion (Elsevier)**, **Impact Factor: 15.5**, ISSN: 1566-2535, volume 117, pages 102808, DOI:10.1016/j.inffus.2024.102808.
- November, 2024 Rajiv Kumar, **Kuldeep Singh**, *Top-k High Utility Itemset Mining: Current status and Future directions*, **The Knowledge Engineering Review (Cambridge University Press)**, **Impact Factor: 2.0**, ISSN: 0269-8889, volume 39, issue-xx, pages 1-61, DOI:10.1017/S0269888924000055.
- October, 2024 Sunil Kumar Meena, Shashank Sheshar Singh, **Kuldeep Singh**, *Diversified Budgeted Influence Maximization in Dynamic Social Networks*, **IEEE Transactions on Computational Social Systems**, **Impact Factor: 4.9**, ISSN:2329-924X, volume xxx, issue-xx, pages 1-13, DOI:10.1109/TCSS.2024.3473948.
- June, 2024 Sunil Kumar Meena, Shashank Sheshar Singh, **Kuldeep Singh**, *Cuckoo Search Optimization-Based Influence Maximization in Dynamic Social Networks*, **ACM Transactions on the Web**, **Impact Factor: 4.1**, ISSN: 1559-1131, volume 18, issue-4, pages 1-25, DOI:10.1145/3690644.
- February, 2024 Sunil Kumar Meena, Shashank Sheshar Singh, **Kuldeep Singh**, *DCDIMB: Dynamic Community-based Diversified Influence Maximization using Bridge Nodes*, **ACM Transactions on the Web**, **Impact Factor: 4.1**, ISSN: 1559-1131, volume 18, issue-4, pages 1-33, DOI:10.1145/3664618.
- February, 2024 **Kuldeep Singh**, Bhaskar Biswas, *Mining top-k high on-shelf utility itemsets using novel threshold raising strategies*, **ACM Transactions on Knowledge Discovery from Data**, **Impact Factor: 4.8**, ISSN: 1556-4681, volume 18, issue-5, pages 1-23, DOI:10.1145/3645115.
- July, 2023 Rajiv Kumar, **Kuldeep Singh**, *High Utility Itemsets Mining from Transactional Databases: A Survey*, **Applied Intelligence (Springer)**, **Impact Factor: 3.5**, ISSN: 0924-669X, volume 53, issue-22, pages 27655-27703, DOI:10.1007/s10489-023-04853-5.
- January, 2022 Rajiv Kumar, **Kuldeep Singh**, *A Survey on Soft Computing based High Utility Itemsets Mining*, **Soft Computing (Springer)**, **Impact Factor: 2.5**, ISSN: 1432-7643, volume 26, issue 13, pages 6347-6392, DOI:10.1007/s00500-021-06613-4.
- July, 2021 **Kuldeep Singh**, Rajiv Kumar, Bhaskar Biswas, *High Average-Utility Itemsets Mining: A Survey*, **Applied Intelligence (Springer)**, **Impact Factor: 3.5**, ISSN: 0924-669X, volume 52, issue-4, pages 3901-3938, DOI: 10.1007/s10489-021-02611-z.
- October, 2020 Harish Kumar Shakya, **Kuldeep Singh**, Yashvardhan Singh More, Bhaskar Biswas, *Opposition-Based Genetic Algorithm for Community Detection in Social Networks*, Proceedings of the National Academy of Sciences, India Section A: Physical Sciences (Springer), **Impact Factor: 1.2**, ISSN: 0369-8203, volume 90, issue 4, pages 251-263, DOI: 10.1007/s40010-020-00716-7.

- September, 2020 Ajay Kumar, Shashank Sheshar Singh, **Kuldeep Singh**, Bhaskar Biswas, *Link Prediction Techniques, Applications, and Performance: A Survey*, Physica A: Statistical Mechanics and its Applications (Elsevier), **Impact Factor: 3.1**, ISSN: 0378-4371, volume 553, pages 124289, DOI: 10.1016/j.physa.2020.124289.
- May, 2020 Ajay Kumar, Shivansh Mishra, Shashank Sheshar Singh, **Kuldeep Singh**, Bhaskar Biswas, *Link Prediction in Complex Networks Based on Significance of Higher-Order Path Index (SHOPI)*, Physica A: Statistical Mechanics and its Applications (Elsevier), **Impact Factor: 3.1**, ISSN: 0378-4371, volume 545, pages 123790, DOI: 10.1016/j.physa.2019.123790.
- November, 2019 Shashank Sheshar Singh, **Kuldeep Singh**, Ajay Kumar, Bhaskar Biswas, *ACO-IM: Maximizing influence in social networks using ant colony optimization*, **Soft Computing (Springer)**, **Impact Factor: 2.5**, ISSN: 1432-7643, volume 24, pages 10181-10203, DOI:10.1007/s00500 – 019 – 04533 – y.
- September, 2019 Shashank Sheshar Singh, Ajay Kumar, **Kuldeep Singh**, Bhaskar Biswas, *LAPSO-IM: Maximizing influence in social networks using learning automata based discrete particle swarm optimization*, **Applied Soft Computing (Elsevier)**, **Impact Factor: 6.6**, ISSN: 1568-4946, volume 82, pages 105554, DOI: 10.1016/j.asoc.2019.105554.
- July, 2019 Shashank Sheshar Singh, **Kuldeep Singh**, Ajay Kumar, Bhaskar Biswas, *MIM2: Multiple Influence Maximization across Multiple Social Networks*, Physica A: Statistical Mechanics and its Applications (Elsevier), **Impact Factor: 3.1**, ISSN: 0378-4371, volume 526, pages 1-22, 2019, DOI: 10.1016/j.physa.2019.04.138.
- July, 2019 **Kuldeep Singh**, Bhaskar Biswas, *Efficient algorithm for mining high utility pattern considering length constraints*, **International Journal of Data Warehousing and Mining (IJDWM) (IGI Global)**, **Impact Factor: 0.5**, ISSN: 1548-3924, volume 15, issue 3, pages 1-27, DOI: 10.4018/IJDWM.2019070101.
- June, 2019 Shashank Sheshar Singh, Ajay Kumar, **Kuldeep Singh**, Bhaskar Biswas, *IM-SSO: Maximizing influence in social networks using social spider optimization*, **Concurrency and Computation: Practice and Experience (Wiley)**, **Impact Factor: 1.5**, ISSN: 1532-0634, volume 31, pages e5421, DOI: 10.1002/cpe.5421.
- May, 2019 **Kuldeep Singh**, Ajay Kumar, Shashank Sheshar Singh, Harish Kumar Shakya, Bhaskar Biswas, *EHNH: An efficient algorithm for mining high utility itemsets with negative utility value and length constraints*, **Information Sciences (Elsevier)**, **Impact Factor: 6.8**, ISSN: 0020-0255, volume 484, Pages 44-70, DOI: 10.1016/j.ins.2019.01.056.
- February, 2019 Ajay Kumar, Shashank Sheshar Singh, **Kuldeep Singh**, Bhaskar Biswas, *Level-2 Node Clustering Coefficient-based Link Prediction*, **Applied Intelligence (Springer)**, **Impact Factor: 3.5**, ISSN: 0924-669X, volume 49, pages 2762-2779, DOI: 10.1007/s10489-019-01413-8.

- January, Shashank Sheshar Singh, Ajay Kumar, **Kuldeep Singh**, Bhaskar Biswas,
2019 *C2IM: Community based Context-aware Influence Maximization in Social Networks*, Physica A: Statistical Mechanics and its Applications (Elsevier), **Impact Factor: 3.1**, ISSN: 0378-4371, volume 514, pages 796 - 818, DOI: 10.1016/j.physa.2018.09.142.
- December, **Kuldeep Singh**, Shashank Sheshar Singh, Ajay Kumar, Bhaskar Biswas, *High*
2018 *Utility Itemsets Mining with Negative Utility Value: A Survey*, **Journal of Intelligent and Fuzzy Systems (IOS Press)**, **Impact Factor: 1.0**, ISSN: 1064-1246, volume 35, issue 6, Pages 6551-6562, DOI:10.3233/JIFS-18965.
- October, **Kuldeep Singh**, Shashank Sheshar Singh, Ajay Kumar, Bhaskar Biswas,
2018 *TKEH: an efficient algorithm for mining top-k high utility itemsets*, **Applied Intelligence (Springer)**, volume 49, issue 3, pages 1078-1097, DOI: 10.1007/s10489-018-1316-x, **Impact Factor: 3.5**, ISSN: 0924-669X.
- July, 2018 **Kuldeep Singh**, Harish Kumar Shakya, Abhimanyu Singh, Bhaskar Biswas,
Mining of high utility itemsets with negative utility, **Expert Systems (wiley)**, **Impact Factor: 2.3**, ISSN: 1468-0394, volume 36, issue 6, pages 1-23, DOI:10.1111/exsy.12296.

Journal (indexing in SCOPUS)

- 2021 **Kuldeep Singh**, Shashank Sheshar Singh, Ashish Kumar Luhach, Ajay Kumar, Bhaskar Biswas, *Mining of Closed High Utility Itemsets: A Survey*, **Recent Advances in Computer Science and Communications, (SCOPUS)**, volume-14, Issue 1, pages-4-10, ISSN: 2666-2558, DOI: 10.2174/2213275912666190204134822, URL = <http://www.eurekaselect.com/node/169614/article> [**Published**]
- 2021 Shashank Sheshar Singh, **Kuldeep Singh**, Ajay Kumar, Bhaskar Biswas, *Influence Maximization on Social Networks: A Study*, **Recent Advances in Computer Science and Communications, (SCOPUS)**, volume-14, Issue 1, pages-13-29, ISSN: 2666-2558, DOI : 10.2174/2213275912666190417152547 <https://www.eurekaselect.com/node/171718/article> [**Published**]
- 2018 Harish Kumar Shakya, **Kuldeep Singh**, Shashank Sheshar Singh, Ajay Kumar, Bhaskar Biswas, *Identifying Community Structure in Social Networks Using Node Similarity Based Permanence Concept*, **Journal of Advanced Research in Dynamical and Control Systems (JARDCS), (SCOPUS)**, issue- 06-Special Issue, pages- 1829–1837, 2018 ISSN: 1943-023X. URL = www.jardcs.org/backissues/abstract.php?archiveid=5662 [**Published**]
- 2018 Harish Kumar Shakya, **Kuldeep Singh**, Bhaskar Biswas, *Community Detection in Social Network with Regenerative Genetic Algorithm*, **International Journal of Pure and Applied Mathematics, (SCOPUS)**, volume- 118, issue- 5, pages- 570–573, ISSN: 1311-8080. URL = <https://acadpubl.eu/jsi/2018-118-5/articles/5/29.pdf> [**Published**]

Journal (Refereed)

- 2016 **Kuldeep Singh**, Harish Kumar Shakya, Bhaskar Biswas, *Clustering of people in social network based on textual similarity*, **Perspectives in Science (Elsevier)**, volume- 8, pages- 570–573, ISSN: 2213-0209. DOI.10.1016/j.pisc.2016.06.023 [**Published**]
- 2015 Harish Kumar Shakya, **Kuldeep Singh**, Bhaskar Biswas, *Community Detection in Social Networks Using Extended Self Organizing Map Algorithm*, **Journal of Advances Research in Science and Engineering (IJARSE)**, Vol. No.4, Special Issue (01), April 2015, pages- 635–642, ISSN: 2319-8354. [**Published**]
- 2014 Harish Kumar Shakya, **Kuldeep Singh**, Bhaskar Biswas, *Community Detection Using Differential Evolution Algorithm With Multiple Objective Function*, **International Journal of Urban Design for Ubiquitous Computing (IJUDUC)**, volume- 2, No.1 (2014), pages- 7-14, ISSN: 2205-8605. DOI: 10.21742/ijuduc.2014.2.1.02 [**Published**]

Conference

- 2024 Sunil Kumar Meena, Shashank Sheshar Singh, Yogendra Meena and **Kuldeep Singh**, *Quantum Simulations: A New Frontier for Influence Maximization in Social Networks*, 31st International Conference on Neural Information Processing (ICONIP), Auckland University of Technology (AUT), New Zealand, 2-6 December 2024, Communications in Computer and Information Science, vol 2287. Springer, Singapore pages: 383–396, 2025, ISBN:978-981-96-6963-9, DOI: 10.1007/978-981-96-6963-9_27. **SCOPUS**
- 2024 Sunil Kumar Meena, Shashank Sheshar Singh and **Kuldeep Singh**, *Ranking-based Diversified Influence Maximization for Dynamic Social Networks*, 17th International Conference on COMMunication Systems & NETWORKS (COMSNETS 25), Chancery Pavilion Hotel, Residency Road, Bengaluru, India, 6-10 January 2025, IEEE, pages: 456-464, 2025, DOI: 10.1109/COMSNETS63942.2025.10885680. **SCOPUS [Published]**
- 2024 Mukesh Kumar, Bhaskar Biswas, **Kuldeep Singh** & Siddhartha Kumar Arjaria, *MELP: Multi-Embedding-Based Link Prediction in Attributed Networks*, International Conference on Advanced Communications and Machine Intelligence (MICA 2023), NIT Warangal, India, 30-31 October 2023, Springer Nature Singapore, pages: 43-59, 2023, ISBN:978-981-97-6222-4, DOI: 10.1007/978 – 981 – 97 – 6222 – 4_4. **SCOPUS [Published]**
- 2023 Rajiv Kumar, **Kuldeep Singh** and Dharmendra Prasad Mahato, *Prediction of Age and Gender from Masked Face Images using Convolution Neural Network*, OITS International Conference on Information Technology (OCIT 2023), NIT Raipur, India, 13-15 December 2023, IEEE, pages: 29-34, 2023, ISBN:979-8-3503-5823-0, DOI: 10.1109/OCIT59427.2023.10430876. **SCOPUS [Published]**
- 2023 Sarthak Gupta, Anshul Bhandari, Bhanu Pratap, Dharmendra Prasad Mahato and **Kuldeep Singh**, *High utility sequence mining using cuckoo search algorithm*, 8th International Conference on Computing in Engineering and Technology (ICCET 2023), Hybrid Conference, NIT Patna, India, 31 August 2023, IET, pages: 67-72, 2023, ISBN:978-1-83953-917-6, DOI: 10.1049/icp.2023.1470. **SCOPUS [Published]**
- 2023 Anshul Bhandari, Sarthak Gupta, Bhanu Pratap, Dharmendra Prasad Mahato and **Kuldeep Singh**, *Evolutionary technique for high utility sequential pattern mining*, 8th International Conference on Computing in Engineering and Technology (ICCET 2023), Hybrid Conference, NIT Patna, India, 31 August 2023, IET, pages: 62-66, 2023, ISBN:978-1-83953-917-6, DOI: 10.1049/icp.2023.1469. **SCOPUS [Published]**

- 2019 Shashank Sheshar Singh, Ajay Kumar, Shivansh Mishra **Kuldeep Singh** and Bhaskar Biswas, *A Centrality Measure for Influence Maximization across Multiple Social Networks*, 3rd International Conference on Advanced Informatics for Computing Research (ICAICR-2019), 15-16 June 2019, Club Mahindra Kangaghat, NH 22, Kandaghat, Solan-173215, India, Advanced Informatics for Computing Research, Springer Singapore,(Springer), Volume 2, pages: 195-207, ISBN 10.1007/978-981-15-0111-1_18, **SCOPUS** [**Published**]
- 2019 Harish Kumar Shakya, Nazeer Shaik, **Kuldeep Singh**, G R Sinha, Bhaskar Biswas, *Community Structure Identification in Social Networks Inspired By Parliamentary Political Competitions*, 3rd International Conference on Data Management, Analytics & Innovation (ICDMAI-2019) (Springer), Volume 2, pages: 445–457, ISSN 2194-5357, ISBN 978-981-13-9363-1, DOI: 10.1007/978 – 981 – 13 – 9364 – 8_32 **SCOPUS**, Lincoln University College, Kuala Lumpur, Malaysia, 18-20 January, 2019. [**Published**]
- 2019 Shashank Sheshar Singh, **Kuldeep Singh**, Ajay Kumar and Bhaskar Biswas, *CoIM : Community-based Influence Maximization in Social Networks*, International Conference on Advanced Informatics for Computing Research, Advanced Informatics for Computing Research, Springer Singapore, pages-440–453, 2019, ISBN 978-981-13-3143-5, DOI: 10.1007/978-981-13-3140-4. **SCOPUS** [**Published**]
- 2019 Shashank Sheshar Singh, **Kuldeep Singh**, Ajay Kumar, Harish Kumar Shakya and Bhaskar Biswas, *A Survey on Information Diffusion Models in Social Networks*, International Conference on Advanced Informatics for Computing Research, Advanced Informatics for Computing Research, Springer Singapore, pages- 426–439, ISBN 978-981-13-3143-5, DOI: 10.1007/978-981-13-3140-4. **SCOPUS** [**Published**]
- 2019 Ajay Kumar, Shashank Sheshar Singh, **Kuldeep Singh**, Harish Kumar Shakya and Bhaskar Biswas, *An implementation of malware detection system using Hybrid C4.5 Decision Tree algorithm*, International Conference on Advanced Informatics for Computing Research, Advanced Informatics for Computing Research, Springer, pages- 579–589, ISBN 978-981-13-3143-5, DOI: 10.1007/978-981-13-3140-4. **SCOPUS** [**Published**]
- 2018 Vaibhav gupta, **Kuldeep Singh**, Siddhartha Kumar Ajaria and Bhaskar Biswas, *Dynamic Pricing in Movie Tickets using Regression Techniques*, 5th International Conference on Advanced Computation and Telecommunication (ICACAT) (IEEE), 28-29, Dec. 2018 pages 1-4, ISBN: 978-1-5386-5472-9 (Print), 978-1-5386-5367-8 (IEEE Xplore), DOI: 10.1109/ICACAT.2018.8933733 **SCOPUS**, [**Published**]

- 2015 **Kuldeep Singh**, Harish Kumar Shakya, Bhaskar Biswas, *An Efficient Approach to Discovering Frequent Patterns from Data Cube using Aggregation and Directed Graph*, 6th International Conference on Computer and Communication Technology, ICCCT-2015, September 25-27, 2015, pp. 31-35, MNNIT Allahabad, ISBN: 978-1-4503-3552-2, DOI:10.1145/2818567.2818573, **SCOPUS**. [Published]

Book Chapters

- 2019 Shashank Sheshar Singh, Ajay Kumar, Shivansh Mishra, **Kuldeep Singh**, Bhaskar Biswas, *Influence Maximization in Social Networks*, Optimization in Large Scale Problems, *Springer*, pp- 255-267, 2019, ISBN: 978-3-030-28565-4, DOI: 10.1007/978 – 3 – 030 – 28565 – 4_22, **SCOPUS [Published]**
- 2017 **Kuldeep Singh**, Harish Kumar Shakya, Bhaskar Biswas, *Happiness Index in Social Network*, Advanced Informatics for Computing Research, *Springer* pp- 261-270, ISBN: 978-981-10-5779-3, DOI: 10.1007/978–981–10–5780–9_24, **SCOPUS [Published]**
- 2017 Harish Kumar Shakya, **Kuldeep Singh**, Bhaskar Biswas, An Efficient Genetic Algorithm for Fuzzy Community Detection in Social Network, Advanced Informatics for Computing Research, *Springer*, pp- 63-72, 2017, ISBN: 978-981-10-5779-3, DOI: 10.1007/978 – 981 – 10 – 5780 – 9_6, **SCOPUS[Published]**
- 2016 **Kuldeep Singh**, Harish Kumar Shakya, Bhaskar Biswas, *Frequent Patterns Mining from Data Cube using Aggregation and Directed Graph*, Advances in Intelligent Systems and Computing, *Springer* pp 167-177, ISBN: 978-81-322-2695-6, DOI:10.1007/978 – 81 – 322 – 2695 – 6_15, 2016, **SCOPUS [Published]**
- 2015 **Kuldeep Singh**, Harish Kumar Shakya, Bhaskar Biswas, *Discovery of Multi-frequent Patterns Using Directed Graph*, Emerging Research in Computing, Information, Communication and Applications (ERCICA 2015), *Springer*, volume 2, pp 153-162, 2015, ISBN: 978-81-322-2552-2, DOI: 10.1007/978 – 81 – 322 – 2553 – 9_15, **SCOPUS [Published]**