




Faculty Details proforma for DU Web-site

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|--------------------------------|---|---|--------------|-----------|----------|---|
| Title | Dr. | First Name | MUKESH KUMAR | Last Name | MEHLAWAT | Photograph |
| Designation | Assistant Professor | | | | |  |
| Address | Department of Operational Research Faculty of Mathematical Sciences North Campus, University of Delhi Delhi-110007 | | | | | |
| Phone No | Office | 91-11-27666672 | | | | |
| | Residence | | | | | |
| | Mobile | | | | | |
| Email | mukesh0980@yahoo.com | | | | | |
| Web-Page | | | | | | |
| Educational Qualifications | | | | | | |
| Degree | Institution | | | | Year | |
| Ph.D. | University of Delhi | | | | 2011 | |
| M.Sc. | University of Delhi | | | | 2002 | |
| B.Sc. | University of Delhi | | | | 2000 | |
| Career Profile | | | | | | |
| April 02, 2013–present | | Assistant Professor, Department of Operational Research, University of Delhi, Delhi | | | | |
| August 23, 2011–March 30, 2013 | | Assistant Professor (Adhoc), Department of Operational Research, University of Delhi, Delhi | | | | |
| March 14, 2011–August 22, 2011 | | Associate Professor, Apeejay School of Management, Dwarka, Institutional Area, New Delhi | | | | |
| June 01, 2005–March 13, 2011 | | Lecturer/Assistant Professor, Apeejay School of Management, Dwarka, Institutional Area, New Delhi | | | | |
| Administrative Assignments | | | | | | |
| 2018- | | Member, University Committee to organize, implement and monitor a systematic revision of Undergraduate and Postgraduate courses | | | | |
| 2017-2019 | | Convenor, Student Activity Committee, Department Operational Research, University of Delhi. | | | | |
| 2017-2019 | | Member, Student Grievance Committee, Department Operational Research, University of Delhi. | | | | |
| 2017-2018 | | Member, Holi Hooliganism Committee, Department Operational Research, | | | | |

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| | University of Delhi. |
| 2017-2018 | Member of the Editorial Board, 94th Annual Report of the University of Delhi, Delhi for the Year 2016-2017 |
| 2017-2018 | Member of the Editorial Board, University Brochure for the 94th Annual Convocation 2017, University of Delhi, Delhi |
| 2017-2018 | Nodel Officer, NAAC compilation of Self Study Report and Evaluation Report, Department of Operational Research, Delhi |
| 2016-2017 | Member, University Broucher Committee for the 93rd Annual Convocation 2016, University of Delhi, Delhi |
| 2016-2017 | Member of the Editorial Board, 93rd Annual Report of the University of Delhi, Delhi for the Year 2015-2016 |
| 2016-2017 | Member of the NAAC Committee for compilation of Self Study Report and Evaluation Report, University of Delhi, Delhi |
| 2016-2017 2015-2016 | Coordinator, Annual Report Compilation, Department of Operational Research, University of Delhi, Delhi |
| 2017-2018 2016-2017 | Nodel Officer, Admission for PG Courses (M.Sc. Operational Research and M.A./M.Sc. Applied Operational Research), Department of Operational Research, University of Delhi, Delhi |
| 2017-2018 2016-2017 | Convenor, Admission Grievance Committee for PG Courses (M.Sc. Operational Research and M.A./M.Sc. Applied Operational Research), Department of Operational Research, University of Delhi, Delhi |
| 2017-2018 2016-2017 | Member, Disciplinary Committee, Department of Operational Research, University of Delhi, Delhi |
| 2017-2018 2016-2017 | Convenor, Students' Activities Committee, Department of Operational Research, University of Delhi, Delhi |
| 2016-2017 | Coordinator, Evaluation Centre for coordinating the evaluation process of the answer scripts of M.Sc. Operational Research, Semester-II & IV and M.A./M.Sc. Applied Operational Research, Semester-II & IV, Department of Operational Research, University of Delhi, Delhi |
| 2017-2018 2016-2017 | Deputy Suprintendent, M.Sc. Operational Research Semester-II & Semester-IV Examinations held in April/May 2016, Department of Operational Research, University of Delhi, Delhi |
| 2016-2017 | Member, Academic Activities Committee, Department of Operational Research, University of Delhi, Delhi |
| 2017-2018 2016-2017 2015-2016 | Member, Departmental Purchase Committee, Department of Operational Research, University of Delhi, Delhi |

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| 2015-2017 | Member, Board of Research Studies (Mathematical Sciences), University of Delhi, Delhi |
| 2015-2017 | Member, Committee of Courses for Post-Graduate & Research Studies, Department of Operational Research, University of Delhi, Delhi |
| 2015-2016 | Member, Technical Committee regarding XII Plan Allocation of funds under GDA "Non-Recurring" Head, Department of Operational Research, University of Delhi, Delhi |
| 2015-2016 | Deputy Suprintendent, M.Sc. Operational Research Semester-I & Semester-III Examinations held in November/December 2015, Department of Operational Research, University of Delhi, Delhi |
| 2015-2016 | Member, Anti-Ragging Committee and Disciplinary Committee, Department of Operational Research, University of Delhi, Delhi |
| 2017-2018 2016-2017 2015-2016 2014-2015 2013-2014 | Member, Admission Committee, Department of Operational Research, University of Delhi, Delhi |
| 2014-Till date | Member, Departmental Research Committee, Department of Operational Research, University of Delhi, Delhi |
| 2013-Till date | Member, M. Phil. Committee, Department of Operational Research, University of Delhi, Delhi |
| 2013-2014 | Member, Anti-Ragging Committee and Anti-Ragging Squad, Department of Operational Research, University of Delhi, Delhi |
| 2013-2014 | Member, Antardhwani 2014, Department of Operational Research, University of Delhi, Delhi |
| Areas of Interest / Specialization | |
| Optimization Theory and Applications; Fuzzy Optimization; Financial Optimization; Soft Computing Techniques | |
| Subjects Taught | |
| M.Sc. (OR): Mathematical Programming, Statistics-II, Portfolio Management, Multicriteria Decision Models, Industrial Project M.A./M.Sc. (AOR): Mathematical Programming, Multicriteria Decision Models, Industrial Project M.Phil./Pre-Ph.D. (OR): Network Analysis | |
| Research Guidance | |
| Supervision of Doctoral Thesis | |
| 2017 | Santosh Kumar (Awarded) <i>Some Contributions to Optimization Modeling of Allocation Problems</i> Department of Operational Research, University of Delhi, Delhi, India |

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| 2016 | Divya Mahajan (Ongoing) <i>A Study on Fuzzy Multi-Criteria Optimization models for Evaluation and Selection of COTS Components</i> | Department of Operational Research, University of Delhi, Delhi, India |
| 2016 | Usha Aggarwal (Ongoing) <i>A Study on Fuzzy Integrated Optimization models for Transportation Problem</i> | Department of Operational Research, University of Delhi, Delhi, India |
| 2015 | Nishtha Grover (Ongoing) <i>Some Contributions to Intuitionistic Fuzzy Optimization and Its Applications</i> | Department of Operational Research, University of Delhi, Delhi, India |
| <u>Supervision of M.Phil. Dissertations</u> | | |
| 2017 | Anu Rao (Ongoing) <i>A Study on Uncertain Approaches to Supplier Selection Problem</i> | Department of Operational Research, University of Delhi, Delhi, India |
| 2017 | Sujit Kumar Singh (Awarded) <i>A Study of Assignment Problems under Fuzzy Environment</i> | Department of Operational Research, University of Delhi, Delhi, India |
| 2017 | Shweta Gupta (Awarded) <i>A Study on Evaluation and Selection Methods for Supplier Selection Problem</i> | Department of Operational Research, University of Delhi, Delhi, India |
| 2017 | Poonam (Awarded) <i>A Study of Mathematical Programming Approaches to Supplier Selection and Order Allocation Problems under Fuzzy Environment</i> | Department of Operational Research, University of Delhi, Delhi, India |
| 2016 | Arun Kumar (Awarded) <i>A Study of Portfolio Selection Problems Under Fuzzy Environment</i> | Department of Operational Research, University of Delhi, Delhi, India |
| 2016 | Sanjay Yadav (Awarded) <i>A Study of Fuzzy Approaches to Critical Path Analysis in Project Networks</i> | Department of Operational Research, University of Delhi, Delhi, India |
| Publications Profile | | |
| <u>Books/Monographs (Authored/Edited)</u> | | |
| 1. Pankaj Gupta, Mukesh Kumar Mehlawat, Masahiro Inuiguchi & Suresh Chandra (2014). Fuzzy Portfolio Optimization: Advances in Hybrid Multi-criteria Methodologies, Studies in Fuzziness and Soft Computing, Vol. 316, Springer, Heidelberg, Germany (ISBN: 978-3-642-54651-8) . | | |
| <u>Research papers published in Refereed/Peer-Reviewed Journals</u> | | |
| 1. Pankaj Gupta, Mukesh Kumar Mehlawat & Divya Mahajan (2018). Data envelopment analysis based multi-objective optimization model for evaluation and selection of software | | |

- components under optimal redundancy. **Annals of Operations Research**. DOI: 10.1007/s10479-018-2842-y (Springer) (**SCI Impact Factor: 1.709, SNIP: 1.211, SJR: 1.009**).
2. Wei Chen, Yun Wang, Pankaj Gupta & **Mukesh Kumar Mehlawat (2018)**. A novel hybrid heuristic algorithm for a new uncertain mean-variance-skewness portfolio selection model with real constraints. **Applied Intelligence**. DOI: 10.1007/s10489-017-1124-8 (Springer) (**SCI Impact Factor: 1.904, SNIP: 1.290, SJR: 0.668**)
 3. **Mukesh Kumar Mehlawat**, Pankaj Gupta & Witold Pedrycz (2017). A new possibilistic optimization model for multiple criteria assignment problem. **IEEE Transactions on Fuzzy Systems**. DOI: 10.1109/TFUZZ.2017.2751006 (IEEE Computational Intelligence Society) (**2016 SCI Impact Factor: 7.671, SNIP: 3.099, SJR: 3.781**).
 4. Mukesh Kumar Mehlawat & Nishtha Grover (2017). Intuitionistic fuzzy multi-criteria group decision making with an application to critical path selection. **Annals of Operations Research**. DOI: 10.1007/s10479-017-2477-4 (Springer) (**2016 SCI Impact Factor: 1.709, SNIP: 1.211, SJR: 1.009**).
 5. Shilpi Verma & **Mukesh Kumar Mehlawat (2017)**. Multi-criteria optimization model integrated with AHP for evaluation and selection of COTS components. **Optimization**. 66: 1879-1894 (Taylor & Francis) (**2016 SCI Impact Factor: 0.943, SNIP: 0.846, SJR: 0.749**).
 6. Pankaj Gupta, **Mukesh Kumar Mehlawat**, Nishtha Grover & Wei Chen (2017). Modified intuitionistic fuzzy SIR approach with an application to supplier selection. **Journal of Intelligent & Fuzzy Systems**. 32: 4431-4441 (IOS Press) (**2016 SCI Impact Factor: 1.261, SNIP: 0.747, SJR: 0.475**).
 7. Pankaj Gupta, Kannan Govindan, **Mukesh Kumar Mehlawat** & Santosh Kumar (2016). A weighted possibilistic programming approach for sustainable vendor selection and order allocation in fuzzy environment. **International Journal of Advanced Manufacturing Technology**. 86: 1785-1804 (Springer) (**2016 SCI Impact Factor: 2.209, SNIP: 1.548, SJR: 0.967**).
 8. Pankaj Gupta, Chin-Teng Lin, **Mukesh Kumar Mehlawat** & Nishtha Grover (2016). A new method for intuitionistic fuzzy multiattribute decision making. **IEEE Transactions on Systems, Man, and Cybernetics: Systems**. 46:1167-1179 (Systems, Man, and Cybernetics Society) (**2016 SCI Impact Factor: 2.35, SNIP: 4.944, SJR: 1.840**).
 9. Pankaj Gupta, **Mukesh Kumar Mehlawat** & Nishtha Grover (2016). Intuitionistic fuzzy multi-attribute group decision-making with an application to plant location selection based on a new extended VIKOR method. **Information Sciences**. 370-371:184-203 (Elsevier) (**2016 SCI Impact Factor: 4.832, SNIP: 2.537, SJR: 1.910**).
 10. **Mukesh Kumar Mehlawat (2016)**. Credibilistic mean-entropy models for multi-period portfolio selection with multi-choice aspiration levels. **Information Sciences**. 345: 9-26 (Elsevier) (**2016 SCI Impact Factor: 4.832, SNIP: 2.537, SJR: 1,910**).
 11. **Mukesh Kumar Mehlawat** & Pankaj Gupta (2016). A new fuzzy group multi-criteria decision making method with an application to the critical path selection. **International**

Journal of Advanced Manufacturing Technology. 83 (5): 1281-1296 (Springer) **(2016 SCI Impact Factor: 2.209, SNIP: 1.548, SJR: 0.967).**

12. **Mukesh Kumar Mehlawat & Pankaj Gupta (2015).** COTS products selection using fuzzy chance-constrained multiobjective programming. **Applied Intelligence.** 43 (4): 732-751 (Springer) **(2016 SCI Impact Factor: 1.904, SNIP: 1.290, SJR: 0.668).**
13. **Mukesh Kumar Mehlawat & Pankaj Gupta (2015).** Multiobjective credibilistic model for COTS products selection of modular software systems under uncertainty. **Applied Intelligence.** 42 (2): 353-368 (Springer) **(2016 SCI Impact Factor: 1.904, SNIP: 1.290, SJR: 0.668).**
14. **Mukesh Kumar Mehlawat & Pankaj Gupta (2014).** Fuzzy chance-constrained multiobjective portfolio selection model. **IEEE Transactions on Fuzzy Systems.** 22 (3): 653-671 (IEEE Computational Intelligence Society) **(2016 SCI Impact Factor: 7.671, SNIP: 3.099, SJR: 3.781).**
15. **Mukesh Kumar Mehlawat & Pankaj Gupta (2014).** Credibility-based fuzzy mathematical programming model for portfolio selection under uncertainty. **International Journal of Information Technology & Decision Making.** 13 (1): 101-135 (World Scientific Publishing Company) **(2016 SCI Impact Factor: 1.664, SNIP: 0.735, SJR: 0.472).**
16. **Mukesh Kumar Mehlawat & Santosh Kumar (2014).** A goal programming approach for a multi-objective multi-choice assignment problem. **Optimization.** 63 (10): 1549-1563 (Taylor & Francis) **(2016 SCI Impact Factor: 0.943, SNIP: 0.846, SJR: 0.749).**
17. Pankaj Gupta & **Mukesh Kumar Mehlawat (2014).** A new possibilistic programming approach for solving fuzzy multiobjective assignment problem. **IEEE Transactions on Fuzzy Systems.** 22 (1): 16-34 (IEEE Computational Intelligence Society) **(2016 SCI Impact Factor: 7.671, SNIP: 3.099, SJR: 3.781).**
18. Pankaj Gupta, Garima Mittal & **Mukesh Kumar Mehlawat (2014).** A multicriteria optimization model of portfolio rebalancing with transaction costs in fuzzy environment. **Memetic Computing.** 6 (1): 61-74 (Springer) **(2016 SCI Impact Factor: 2.205, SNIP: 1.336, SJR: 0.646).**
19. **Mukesh Kumar Mehlawat (2014).** A fuzzy approach to multiobjective COTS products selection of modular software systems using exponential membership functions. **International Journal of Reliability, Quality and Safety Engineering.** 21 (1): 1450005 (17 pages) (World Scientific Publishing Company) **(2016 SNIP: 0.494, SJR: 0.267).**
20. Garima Mittal & **Mukesh Kumar Mehlawat (2014).** A multiobjective portfolio rebalancing model incorporating transaction costs based on incremental discounts. **Optimization.** 63 (10): 1595-1613 (Taylor & Francis) **(2016 SCI Impact Factor: 0.943, SNIP: 0.846, SJR: 0.749)**
21. Pankaj Gupta, Masahiro Inuiguchi, **Mukesh Kumar Mehlawat & Garima Mittal (2013).** Multiobjective credibilistic portfolio selection model with fuzzy chance-constraints.

- Information Sciences.** 229: 1-17 (Elsevier) **(2016 SCI Impact Factor: 4.832, SNIP: 2.537, SJR: 1.910).**
22. Pankaj Gupta, **Mukesh Kumar Mehlawat** & Anand Saxena **(2013)**. Hybrid optimization models of portfolio selection involving financial and ethical considerations. **Knowledge-Based Systems.** 37: 318-337 (Elsevier) **(2016 SCI Impact Factor: 4.529, SNIP: 2.660, SJR: 1.877).**
23. **Mukesh Kumar Mehlawat (2013)**. A multi-choice goal programming approach for COTS products selection of modular software systems. **International Journal of Reliability, Quality and Safety Engineering.** 20 (6): 1350026 (18 pages) (World Scientific Publishing Company) **(2016 SNIP: 0.494, SJR: 0.267).**
24. Pankaj Gupta, Hoang Pham, **Mukesh Kumar Mehlawat** & Shilpi Verma **(2013)**. A fuzzy optimization framework for COTS products selection of modular software systems. **International Journal of Fuzzy Systems.** 15 (2): 91-109 (Springer) **(2016 SCI Impact Factor: 2.198, SNIP: 1.195, SJR: 0.727).**
25. **Mukesh Kumar Mehlawat (2013)**. Behavioral optimization models for multicriteria portfolio selection. **Yugoslav Journal of Operations Research.** 23 (2): 279-297 (University of Belgrade, Serbia) **(2016 SNIP: 0.619, SJR: 0.315).**
26. Pankaj Gupta, Garima Mittal & **Mukesh Kumar Mehlawat (2013)**. Expected value multiobjective portfolio rebalancing model with fuzzy parameters. **Insurance: Mathematics and Economics.** 52 (2): 190-203 (Elsevier) **(2016 SCI Impact Factor: 1.363, SNIP: 1.409, SJR: 0.938).**
27. Pankaj Gupta, Garima Mittal & **Mukesh Kumar Mehlawat (2013)**. Multiobjective expected value model for portfolio selection in fuzzy environment. **Optimization Letters.** 7 (8): 1765-1791 (Springer) **(2016 SCI Impact Factor: 1.310, SNIP: 1.081, SJR: 0.920).**
28. Pankaj Gupta, **Mukesh Kumar Mehlawat** & Garima Mittal **(2013)**. A fuzzy approach to multicriteria assignment problem using exponential membership functions. **International Journal of Machine Learning and Cybernetics.** 4(6): 647-657 (Springer) **(2016 SCI Impact Factor: 1.699, SNIP: 1.138, SJR: 0.658).**
29. Pankaj Gupta, **Mukesh Kumar Mehlawat** & Shilpi Verma **(2012)**. COTS selection using fuzzy interactive approach. **Optimization Letters.** 6 (2): 273-289 (Springer) **(2016 SCI Impact Factor: 1.310, SNIP: 1.081, SJR: 0.920).**
30. Pankaj Gupta, **Mukesh Kumar Mehlawat** & Garima Mittal **(2012)**. Asset portfolio optimization using support vector machines and real coded genetic algorithm. **Journal of Global Optimization.** 53 (2): 297-315 (Springer) **(2016 SCI Impact Factor: 1.733, SNIP: 1.583, SJR: 1.484).**
31. Pankaj Gupta, Garima Mittal & **Mukesh Kumar Mehlawat (2012)**. Multicriteria credibilistic portfolio rebalancing problem with fuzzy chance-constraint. **Advances in Intelligent and Soft Computing.** 130: 997-1010 (Springer).
32. Pankaj Gupta, Shilpi Verma & **Mukesh Kumar Mehlawat (2012)**. Optimization model of

- COTS selection based on cohesion and coupling for modular software systems under multiple applications environment. **Lecture Notes in Computer Science**. 7335: 87-102 (Springer) (2016 SNIP: 0.552, SJR: 0.315).
33. **Mukesh Kumar Mehlawat & Santosh Kumar (2012)**. A solution procedure for a linear fractional programming problem with fuzzy numbers. **Advances in Intelligent and Soft Computing**. 130: 1037-1049 (Springer).
34. Pankaj Gupta, Shilpi Verma & **Mukesh Kumar Mehlawat (2012)**. Fuzzy COTS selection for modular software systems based on cohesion and coupling under multiple applications environment. **International Journal of Applied Evolutionary Computation**. 3 (4): 1-18 (IGI Global Publication).
35. Pankaj Gupta, Masahiro Inuiguchi & **Mukesh Kumar Mehlawat (2011)**. A hybrid approach for constructing suitable and optimal portfolios. **Expert Systems with Applications**. 38 (5): 5620-5632 (Elsevier) (2016 SCI Impact Factor: 3.928, SNIP: 2.492, SJR: 1.433).
36. Pankaj Gupta, Shilpi Verma & **Mukesh Kumar Mehlawat (2011)**. A membership function approach for cost-reliability trade-off of COTS selection in fuzzy environment. **International Journal of Reliability, Quality and Safety Engineering**. 18 (6): 573-595 (World Scientific Publishing Company) (2016 SNIP: 0.494, SJR: 0.267).
37. Pankaj Gupta & **Mukesh Kumar Mehlawat (2011)**. Duality in fuzzy linear fractional programming. **International Journal of Optimization: Theory, Methods and Applications**. 3 (1): 21-44 (Global Information Publisher).
38. Pankaj Gupta & **Mukesh Kumar Mehlawat (2011)**. An application of the modified subgradient method for solving fuzzy linear fractional programming problem. **Topics in Nonconvex Optimization: Theory & Applications, Springer Optimization and Its Applications**. 50: 115-131 (Springer).
39. Pankaj Gupta, **Mukesh Kumar Mehlawat & Anand Saxena (2010)**. A hybrid approach to asset allocation with simultaneous consideration of suitability and optimality. **Information Sciences**. 180 (11): 2264-2285 (Elsevier) (2016 SCI Impact Factor: 4.832, SNIP: 2.537, SJR: 1.910).
40. Pankaj Gupta & **Mukesh Kumar Mehlawat (2009)**. Bector-Chandra type duality in fuzzy linear programming with exponential membership functions. **Fuzzy Sets and Systems**. 160 (22): 3290-3308 (Elsevier) (2016 SCI Impact Factor: 2.718, SNIP: 1.977, SJR: 1.506).
41. Pankaj Gupta, **Mukesh Kumar Mehlawat**, Garima Mittal & Shilpi Verma (2009). A hybrid approach for selecting optimal COTS products. **Lecture Notes in Computer Science**. 5592: 949-962 (Springer) (2016 SNIP: 0.552, SJR: 0.315).
42. Pankaj Gupta, **Mukesh Kumar Mehlawat & Anand Saxena (2008)**. Asset portfolio optimization using fuzzy mathematical programming. **Information Sciences**. 178 (6): 1734-1755 (Elsevier) (2016 SCI Impact Factor: 4.832, SNIP: 2.537, SJR: 1.910).
43. Santosh Kumar, Elias Munapo, Brian C. Jones & **Mukesh Kumar Mehlawat (2008)**.

Complexity reduction for solving a pure integer program by the branch and bound method using the gomory constraints. **ASOR Bulletin**. 27: 13-22 (Australian Society of Operations Research).

44. Pankaj Gupta & **Mukesh Kumar Mehlawat (2007)**. An algorithm for a fuzzy transportation problem to select a new type of coal for a steel manufacturing unit. **TOP**. 15 (1): 114-137 (Springer) (**2016 SCI Impact Factor: 0.899, SNIP: 1.054, SJR: 0.670**).

Conference Organization/ Presentations (in the last five years)

Organization of Conference/Training Programme

1. Organizing Secretary, Workshop on Data Science and Big Data Analysis, Department of Operational Research, University of Delhi, Delhi, February 24, 2017.
2. Organizing Secretary, International Conference on Recent Advances in Optimization Theory and Applications, University of Delhi, Delhi, January 30-31, 2016.
3. Member, Program Committee, 7th International Conference on Quality, Reliability, Infocom Technology and Business Operations, University of Delhi, Delhi, December 28-30, 2015.
4. Co-coordinator, Training Programme on Optimization and Its Applications, University of Delhi, Delhi, November 26-December 01, 2012.
5. Secretary, International Conference on Optimization Modelling and Applications, University of Delhi, Delhi, November 29-December 01, 2012.
6. Member, Organizing Committee, Training Programme on Optimization Theory and Applications, University of Delhi, Delhi, February 10-14, 2010.
7. Member, Organizing Committee, 4th International Conference on Quality, Reliability and Infocom Technology, University of Delhi, Delhi, December 18-20, 2009.

Invited Talks

1. Delivered invited talk in the International Conference on Optimization, Computing and Business Analysis for Sustainable Development, Central University of Rajasthan, Ajmer, February 20-22, 2015.
2. Delivered invited talk in the National Seminar on Optimization and Its Applications, Lakshmibai College, University of Delhi, Delhi, January 15-16, 2015.
3. Delivered invited talks in the Training Programme on Advanced Optimization Techniques for Engineers and Professionals, Maulana Azad National Institute of Technology, Bhopal, December 19-21, 2013.
4. Delivered invited talk in the Training Programme on Optimization Techniques and their Applications, UIET, Panjab University, Chandigarh, January 21-25, 2013.
5. Delivered invited talk in the Training Programme on Optimization and Its Applications, University of Delhi, Delhi, November 26-December 01, 2012.

Conference Presentations (last five years)

1. Presented a paper entitled “A fuzzy multiobjective optimization model of assignment problem” in the International Conference on Optimization Modelling and Applications organized by Operational Research Society of India, Delhi Chapter, Department of Operational Research, University of Delhi and DRDO, New Delhi, India during November 29-December 01, 2012.
2. Presented a paper entitled “A new portfolio rebalancing model using quantity discounts” in the International Conference on Analysis and its Applications organized by Department of Mathematics, Aligarh Muslim University, Aligarh, India during November 19-21, 2011.
3. Presented a paper entitled “Multicriteria portfolio optimization using multichoice goal programming” in the International Conference on Soft Computing for Problem Solving (SocProS 2011) organized by The Institute of Engineers, Indian Institute of Technology Roorkee, Roorkee, India during December 22-22, 2011.
4. Presented a paper entitled “An integrated fuzzy multi-objective vendor selection model with price breaks” in the International Conference on Management Practices & Research organized by Apeejay School of Management, New Delhi, India and Philadelphia University, Philadelphia, USA during December 27-28, 2010.
5. Presented a paper entitled “An application of the modified subgradient method for solving linear fractional programming problem” in the 4th International Conference on Quality, Reliability and Infocom Technology organized by Department of Operational Research, University of Delhi, Delhi, India during December 18-20, 2009.

Research Projects (Major Grants/Research Collaboration)

1. **Principal Investigator, Project on “Hybrid multi-criteria optimization models for fuzzy portfolio selection”** sponsored by **University Grants Commission, New Delhi** under **Faculty Research Promotion Schemes** for the period February 2015-January 2017.
2. **Principal Investigator, Project on “Fuzzy hybrid optimization framework for resource planning problems”** sponsored by **Research and Development Scheme of University of Delhi, Delhi** for the period October 2015-September 2016.
3. **Principal Investigator, Project on “Hybrid optimization framework for resource planning problems under fuzzy environment”** sponsored by **Research and Development Scheme of University of Delhi, Delhi** for the period October 2014-September 2015.
4. **Co-Principal Investigator, Project on “Toward the development of an integrated framework for suitable, optimal and ethical portfolios”** sponsored by **Department of Science and Technology, New Delhi** under the **PURSE Scheme** to the **University of Delhi, Delhi** for the period 2014-2018.
5. **Co-Principal Investigator, Project on “A study on the development of hybrid multicriteria optimization framework for portfolio selection in fuzzy environment”** sponsored by **University Grants Commission, New Delhi** under **Major Research Project Scheme** for the period July 2012-June 2015.

6. **Principal Investigator, Project on “Fuzzy multi-criteria optimization framework for resource planning problems”** sponsored by **Research and Development Scheme of University of Delhi, Delhi** for the period July 2013-March 2014.

Awards and Distinctions

1. **Visiting Scholar**, School of Information, Capital University of Economics and Business, Beijing, China during June-July, 2016 & 2017.
2. **Start-up-Grant Recipient (2014-2016), Faculty Research Promotion Schemes**, University Grants Commission, New Delhi.
3. Paper entitled **“Fuzzy chance-constrained multiobjective portfolio selection model”** included in **Top 25 popular articles** (June 2014) within the journal **IEEE Transactions on Fuzzy Systems**.
4. Paper entitled **“A new possibilistic programming approach for solving fuzzy multiobjective assignment problem”** included in **Top 25 popular articles** (March 2014) within the journal **IEEE Transactions on Fuzzy Systems**.
5. Biography listed in Marquis Who's Who in the World 2012.
6. **Felicitated for teaching performance in 2007 and 2009** from the Apeejay School of Management, Dwarka, New Delhi.
7. Paper entitled **“Asset portfolio optimization using fuzzy mathematical programming”** included in **Science Direct Top25 Hottest Articles -2008** within the journal **Information Sciences** under the subject area **“Decision Sciences”**.
8. **Achieved First rank** in the Sri Aurobindo College, University of Delhi in **B.Sc. in 1998, 1999 and 2000**.

Association With Professional Bodies

Reviewing

- Reviewer, European Journal of Operational Research
- Reviewer, Fuzzy Sets and Systems
- Reviewer, Information Sciences
- Reviewer, IEEE Transactions on Fuzzy Systems
- Reviewer, International Journal of Management Science and Engineering Management

Committees and Boards

- Member, Committees to Review and Revise Syllabus of M.Phil. (Part-I) and Pre-Ph.D. Courses in the Department of Operational Research, University of Delhi, Delhi, 2013-2014.
- Member, Committees to Review and Revise Semester Syllabus of Operational Research for FYUP, University of Delhi, Delhi, 2012-2014.
- Member of several departmental committees.

Memberships

- Member, Working Group on Generalized Convexity/Monotonicity (WGGC)
- Member, INFORMS
- Member, The OR Society
- Member, Operational Research Society of India
- Member, Ramanujan Mathematical society

Other Activities

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| 2016 | Faculty Development Programme on Qualitative and Quantitative Research Methods using SPSS, Daulat Ram College, University of Delhi, December 1-7, 2016. |
| 2015 | 4-week 80th Orientation Programme conducted by Centre for Professional Development in Higher Education, University of Delhi, Delhi, India, May 25-June 20. |
| 2014 | 3-week Refresher Course in Mathematical Sciences conducted by Centre for Professional Development in Higher Education, University of Delhi, Delhi, India, November 24-December 13. |
| 2010 | 2-week Quality Improvement Program conducted by Indian Institute of Technology Delhi, New Delhi, India, May 24-June 4. |