Summary on Responsibilities and Research Activities
Prof. Dr. Tanka Nath Dhamala
Humboldtian
Former Head, Central Department of Mathematics, Tribhuvan University
Former Head, Central Department of Computer Science and IT, Tribhuvan University

Tanka Nath Dhamala received his M.Sc. in Pure Mathematics with the **Chancellor's Gold Medal** from Tribhuvan University, Nepal (1989), and an M.Sc. nat. in Industrial Mathematics from the University of Kaiserslautern, Germany (1996). He earned a **PhD in Optimization** from the University of Magdeburg, Germany under Prof. Heidemarie Braesel (2002), followed by a **postdoctoral position in Optimization** at Memorial University of Newfoundland, Canada under Prof. Wieslaw Kubiak (2004–2005).

Dr. Dhamala has conducted research visits at DIMACS and RUTCOR, USA (Prof. Fred S. Roberts, 2003), and the MDMC Lab, Chonbuk National University, South Korea (Prof. Moon Ho Lee). He traveled to Japan for education (1989) and to France, India, Sri Lanka, the Philippines, China, Luxembourg, Malaysia, and Myanmar for scientific meetings. In Germany, he has extensively collaborated with the University of Magdeburg, University of Kaiserslautern, TU Bergakademie Freiberg, and Karlsruhe Institute of Technology. He was awarded the **TWAS Award** by the Nepal Academy of Science and Technology (2003), the **NAST NABIL Science and Technology Award** (2016) and **Mathematical Sciences Award (2026)** of NilKrishna–Jashoda Sitaula Foundation, Northern California, USA.

Currently, Prof. Dhamala is a full professor at Tribhuvan University, leading research in Optimization, Operations Research, Graph Theory, Scheduling Theory, and Algorithms. He served as Head of the Central Department of Mathematics (2020–2024), Head of the Central Department of Computer Science and IT (2007–2013), and coordinated the MPhil Program in Mathematics (2016–2019). He was a **finalist** for the **Vice-Chancellor** (2024) and the **Chairman** of the Service Commission (2023) at Tribhuvan University, but was **not appointed** to either post. He has supervised numerous PhD, MPhil, and Master's students.

He is a **Georg Forster Research Fellow** for Experienced Researchers under the **Alexander von Humboldt Foundation** with Prof. Horst W. Hamacher at the University of Kaiserslautern (2012–2014). He is a former DAAD (Germany) and NSERC (Canada) research fellow and served as **DAAD Research Ambassador** (2015–2021). He coordinated the DAAD Partnership Program - Graph Theory and Optimization for the Industry and Society, with Prof. Hamacher (2016–2019) and the Alexander von Humboldt Foundation Research Group Linkage Programs - Optimization Models and Methods for Sustainable Development, with Prof. Stephan Dempe (TU Bergakademie Freiberg, 2016–2018) and - Optimization Strategies for Congestion Reduction in Emergency Transportation, with Prof. Stefan Nickel (KIT, IOR, 2024–2026) in Optimization and Graph Theory at Tribhuvan University.

Prof. Dhamala has an extensive publication record, has organized national and international conferences and workshops, and served as editor/chief editor of the Int'l Journal of Operations Research, Nepal, Journal of Nepal Mathematical Society, and The Nepali Mathematical Sciences Report. He reviews for AMS Review, zbMATH, Theoretical Computer Science, Journal of Advanced Transportation, Hindawi, ANNOR, Springer Nature, EJOR, and OPSEARCH.

He is affiliated with numerous academic organizations in Nepal and abroad, including AMS, President of the Prof. Dr. Urmila Pyakurel Madhushree Academmy, NEGAAS (**President**, 2020–2022, Vice-President 2014-2016), GAAN, ORSN, MCDM, Humboldt Club Nepal, Nepal Mathematical Society (**President**, 2015–2018; Secretary, 2006–2009), and Steering Committee Member of the Silkroad Mathematics Center, Beijing, China. He also serves on research and subject committees in Nepalese universities and has held positions in the Science and Technology Cluster, University Grants Commission, Nepal (Member, 2019–2021); Mathematics Subject Committee, HSEB, Government of Nepal (Chair, 2015–2016); Nepal IT Council (Member, 2011–2013); and Mathematical Sciences Scientific Sub-Committee, NAST (Member, 2006–2009, 2016–2018).

Prof. Dhamala's research is centered on the development and application of mathematical models for solving complex real-life problems through optimization, simulation, and heuristic techniques. His principal research domains include shop scheduling theory and algorithms, graph algorithms, just-in-time sequencing, vehicle routing problems, network optimization, facility location, and logistics support systems. His current research concentrates on optimization-based emergency evacuation planning, with particular emphasis on auto-based and transit-based evacuation models, including contraflow strategies. While the proposed models are designed for a wide range of disaster scenarios globally, Kathmandu, Nepal, represents a significant and practical implementation context. The models also have direct applications in managing everyday rush-hour traffic. Fostering collaborative and interdisciplinary research is a key element of his long-term research agenda.

For more information, see Prof. Dhamala's homepage: Tanka Nath Dhamala's Academic Homepage.

Updated: March 22. 2026

Prof. Dr. Tanka Nath Dhamala
Professor of Mathematics & Humboldtian

Item	Details
Date and place of birth	17.06.1964 A.D. (01.03.2021 B.S.), Okhaldhunga, Nepal
Family and parents	Bhuwani Dhamala Shiwakoti (wife), Pushpa and Jwala Dhamala (daughters), Rabilal/Harkamaya Dhamala (late father/mother)
Telephone	(00977) 9841152490 (mobile); (00977)(1) 4155160 (home)
Emails	tanka.nath.dhamala@gmail.com, tanka.dhamala@cdmath.tu.edu.np
ORCID ID	0000-0003-3390-9707
Homepage	http://dhamalatn.cdmathtu.edu.np/
Fellowships, scholarships	1. **Alexander von Humboldt Foundation** (2012-2014, 2015, 2016, 2018, 2023, 2024-2026) 2. DAAD Scholarship 1994-1996 & 1999-2002, DAAD short visit fellowship (2006, 2010, 2016, 2017, 2019, 2023) 3. NSERC Research Fellow of Canada 2004-2005
Awards	**Third World Academy of Sciences TWAS Award 2003, NABIL S&T NAST Award 2016**, Mathematical Sciences NJSF Award 2026
Honors and recolonization	**DAAD Research Ambassador 2014-2020** **Nominated** as one of **3 finalists for Vice-Chancellor, TU** (2024) & for the **Chairman, TU Service Commission**, 2023 (not appointed)
Medals and prizes	**Chancellor Gold Medal (TU Topper 1989)**, Mahendra Bidya-Bhushan Medal A 2003 and B 1989, Education Service Prize of Nepal Govt. 2008, Best student prizes
Education	Post-Doc (Canada 2004-2005), PhD (Germany 2002), Bachelor's and Master's degree in Mathematics (TU), M.Sc.nat. in Industrial Mathematics (Germany)
Experiences and positions	Former Heads - Central Dept. of Mathematics (2020-2024) & Central Dept. of CSIT (2007-2013), Post-Doc Research Fellow at MUN (Canada), Visiting Professor at Chonbuk National University (South Korea 2008)
International research collaborations/projects as PI at Tribhuvan University	1. DAAD partnership with RPTU, Germany and Philippines 2016-2019 2. AvH Research Group Linkage Program at TU Bergakademie, Germany 2016-2018 3. AvH Research Group Linkage Program at KIT, Germany 2024-2026
Scientific publications	**Refereed journal articles: 101, Scientific books and chapters: 6**, General articles, proceedings, and abstracts: 68+, in progress: 10
Academic and research visits	Germany (KIT Karlsruhe, Berlin, Kaiserslautern, Passau, Heidelberg, Mannheim, Freiberg, Magdeburg, Chemnitz, Hannover, Goettingen, Freiburg), USA (DIMACS, RUTCOR, Santa Clara University), Canada, India, China, Myanmar, Philippines, Malaysia, Luxembourg, Sri Lanka, South Korea, France, Japan
Students supervised and evaluated	**PhD: complete (10), running (4)**, MPhil: complete (7), running (6), Master's: 45
Academic memberships	President of the Prof. Dr. Urmila Pyakurel Madhushree Academy, Former Secretary and **President of Nepal Mathematical Society**, Former Vice-President and **President of Nepal-German Academic Association**, Academic accountability: 30+, Journals board member and reviews: 40+, Society membership: 20+
Seminar/ workshop/ conference (organizer/ advisor/member)	Total: 42+
Seminar/ workshop/ conference/ webinar (presentation/ participation)	**First authorship: 130+**, Co-presentations: 81+
Google scholar	Citations: 1649; h-index: 22; i10-index: 41; Publications: 133
ResearchGate	Citations: 1365; h-index: 20; Publications: 162; Research interest score: 621.0
Social media articles and interviews	Articles: 14, Interviews: 4

Updated: March 22, 2026

Brief Curriculum Vitae
Professor Dr. Tanka Nath Dhamala

- Personal Information

  Date and place of birth: June 17, 1964 A.D. (1.3.2021 B.S.), Okhaldhunga, Nepal.

  Private address: Mahadevsthan, Koteshwor-32, House No. 115/90; P.O.Box. 13143, Kathmandu, Nepal.

  Office address: Central Department Mathematics (CDM), Institute of Science and Technology (IOST), Tribhuvan University (TU), Kathmandu, Nepal.

  Telephone No.: (00977)(1) 4155160 (home); (00977) 9841152490 (mobile)

  Family: Mrs. Bhuwani Dhamala (wife), Er. Pushpa Dhamala and Dr. Er. Jwala Dhamala (daughters).

  Parents (late): Rabilal Dhamala (father), Harkamaya Dhamala (mother).

  Emails: tanka.nath.dhamala@gmail.com, tanka.dhamala@cdmath.tu.edu.np

  ORCID ID (0000-0003-3390-9707)

- Fellowships, Scholarships, Prizes and Medals

  1. Alexander von Humboldt Foundation Research Fellow (Research Group Linkage Program: June 1, 2024 - June 30, 2026, Revisit: 1 June - 31 Aug 2023; Research Group Linkage Program: 1 July 2016 - 31 Dec 2018; Return Fellowship: 1 Jan - 30 Dec 2015; Georg Forster Research Fellowship for Experienced Researcher 18-months: 1 April - 30 Sep 2012; 1 Jan - 30 June 2013; 1 July - 30 Dec 2014).
  2. DAAD Fellow (2-13 April 2023; 2-28 June 2019, 1-30 June 2017; 15 Oct - 14 Nov 2016; 1 May - 14 June 2010; 19 Sep - 2 Oct 2010; 1 Sep - 30 Nov 2006; 1-20 June 2006; 1 Aug 1999 - 24 May 2002; 1 Aug 1994 - 30 Sep 1996).
  3. Mathematical Sciences Award (2026) of NilKrishna–Jashoda Sitaula Foundation, Northern California, USA.
  4. NABIL Science and Technology Award of Nepal Academy of Science and Technology (NAST) 2016.
  5. Government of Nepal, Education Service Prize 2008.
  6. NSERC Research Fellowship of Canada, 21 Sep 2004 - 21 July 2005.
  7. TWAS - Third World Academy of Sciences Award Winner 2003.
  8. Mahendra Bidya-Bhushan Medal Class A 2003.
  9. Chancellor Gold Medal (TU Topper, 1989).
  10. Mahendra Bidya-Bhushan Medal Class B (CDM-TU-Nepal, Topper, 1989).
  11. Best student Awards/Scholarships at High School, Colleges and TU (1970-1989).

- Educational Qualifications

  1. Post-Doc, Memorial University of Newfoundland, FBA, Canada, 21 Sep 2004 - 21 July 2005.
  2. Dr.rer.nat. (PhD, Discrete Optimization, 1 Oct 1999 - 24 May 2002), University of Magdeburg, Faculty of Mathematics, Institute of Algebra and Geometry (UMD-FMA-IAG-Germany).
  3. M.Sc.nat. (Industrial Mathematics, 1 Oct 1994-30 Sep 1996), University of Kaiserslautern (UKL-FMA, Germany).
  4. Master's Degree in Mathematics (with distinction, 13 Nov 1987 - 20 Nov 1989), CDM-TU-Nepal.
  5. Bachelor's Degree (Mathematics, 1984-1986), Tri-Chandra Multiple Campus, TU-Nepal.
  6. Proficiency Certificate Level (1982-1984), Patan Multiple Campus, TU-Nepal.
  7. School Leaving Certificate (1970-1980), Baruneshwor Secondary School, Rampur, Okhaldhunga, Nepal.

- Working Experience and Positions Held

  1. Head, CDM, IOST, TU (since 16 Jan 2020, to date).
  2. Coordinator, M.Phil. Program, CDM, IOST, TU (since 15 August 2016 - 17 August 2019).
  3. Professor of Mathematics, CDM-TU-Nepal (13 May 2013, to date).
  4. Humboldt Research Fellow, UKL, Germany (1 July - 31 Dec 2014; 1 Jan - 30 June 2013; 1 April - 30 Sep 2012).
  5. Associate Professor of Mathematics, CDM-TU-Nepal (Sep 20 2009 - 12 May 2013).
  6. Head, Central Department of Computer Science and IT (CDCSIT), TU-Nepal (1 June 2007 - 27 Sep 2013).
  7. Visiting Professor, Chonbuk National University, Korea (11 June - 10 Aug 2008).

8. Asst. Professor, CDM-TU-Nepal (18 Sep 1993 - 19 Sep 2009).
9. Post-doc Fellow, Memorial University of NFL, Canada (21 Sep 2004 -21 July 2005).
10. Visiting Faculty, CDCSIT-TU-Nepal (1 Jan 2004 - 30 June 2004).
11. Assistant Lecturer, CDM-TU-Nepal (20 March 1990 - 17 Sep 1993).

- Honors and Recognition

1. DAAD Research Ambassador, November 2014 - 2020.
2. Finalist for Vice-Chancellor, Tribhuvan University, 2024 (not appointed).
3. Finalist for Chairman, TU Service Commission, 2023 (not appointed).

- International Research Collaborations/Projects

1. Alexander von Humboldt Foundation Research Group Linkage Program between CDM-TU and KIT, IOR, Karlsruhe, Germany (**Principal Investigator at CDM-TU**, 2024-2026). Project title: Optimization Strategies for Congestion Reduction in Emergency Transportation.
2. DAAD partnership between UKL-FMA, Mindanao State University, IIT, Philippines and CDM-TU (**Principal Investigator at CDM-TU**, 2016-2019). Project title: Graph Theory and Optimization for the Industry and Society.
3. Alexander von Humboldt Foundation Research Group Linkage Program between CDM-TU and TU Bergakademie, Freiberg, Germany (TUFB) (**Principal Investigator at CDM-TU**, 2016-2018). Project title: Optimization Models and Methods for Sustainable Development.

- Academic/Research and International Visits

1. Department of Mathematics, Mannheim University, Germany, July 21, 2025.
2. Department of Mathematics, Faculty of Science and Technology, University of Haute Alsace, France, June 18-19, 2025.
3. Karlsruhe Institute of Technology, IOR, Discrete Mathematics and Logistics, Germany, Sept. 3 - Nov. 29, 2024 & June 2 - July 30, 2025 .
4. Faculty of Mathematics and Computer Science, Heidelberg University, Germany, October 31, 2024.
5. Department of Business and Data Science, University of Passau, Germany, November 13-15, 2024.
6. Department of Mathematics and Computer Science, Santa Clara University, USA, April 16-30, 2024.
7. KIT Karlsruhe, Institute of Operations Research (IOR), Germany (scientific meeting, 15-17 June 2023).
8. Department of Mathematics, Veer Surendra Sai University of Technology Siddhi Vihar, Burla, Odisha, India (scientific meeting, 7-8 Feb 2020).
9. Department of Mathematics, Berhampur University Bhanja Bihar, Odisha, India (scientific meeting, 4-5 Feb 2020).
10. Department of Mathematics, South Asian University (SAU), New Delhi, India (scientific meeting, 3 Feb 2020).
11. Myanmar (DAAD scientific meeting, 11-13 Nov 2019).
12. Siksha 'O' Anushandhan University, Odisha, India (scientific meeting, 23-26 Oct 2019; 6 Feb 2020).
13. Tagbilaran, Bohol, Philippines (DAAD scientific meeting, 31 Aug - 14 Sep 2019).
14. Institute for Mathematical Research, Universiti Putra Malaysia; Malaysia Institute of Transport & Faculty of Computer Science and Mathematics, Universiti Teknologi MARA (scientific meeting, 31 Aug 2019).
15. Faculty of Science, Technology and Communication, University of Luxembourg (scientific meeting, 23-25 June 2019).
16. Shangrao Normal University, China (scientific meeting, 15-18 April 2019).
17. Brainware University, Barasat, Kolkata, India (scientific meeting, 2-4 February 2019).
18. Technical University Berlin, Germany (scientific meeting, 5-6 December 2018).
19. School of Mathematics and Computational Science, Xiangtan University, China (scientific meeting, 24-26 July 2018).
20. Peking University and Silkroad Mathematics Center, Beijing, China (scientific meeting, 23-26 July 2018).
21. Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, India (scientific meeting, 4-5 May 2018).
22. Mathematical and System Sciences, Chinese Academy of Sciences and Silkroad Mathematics Center of Chinese Mathematical Society, Beijing (scientific meeting, 9-12 Dec 2016, 15-22 April 2017, 22-27 July 2018, 10-13 April 2019).
23. TUFB, Germany (2 June - 30 Aug 2023, 3-13 April 2023, 10-12 June 2019, 15 Sep - 12 Dec 2018, 2 Nov 2017 - 29 Jan 2018, 24 Oct 2016).
24. Mindanao State University, Iligan Institute of Technology, Philippines (scientific meeting, 10-30 June 2016).

25. Colombo, Sri Lanka (scientific meeting, 16-20 May 2017, 26-29 Oct 2015).
26. New Delhi, India (DAAD Research Ambassadors Workshop, 13-15 Nov 2014).
27. UKL Germany (23-24 June 2025, 23-24 Aug 2023, 2-28 June 2019, 25-27 Sep 2018, 1-30 June 2017, 15 Oct- 14 Nov 2016, 1 July- 31 Dec 2014, 1 Jan- 30 June 2013, 1 April- 30 Sep 2012, 19 Sep- 2 Oc 2010, 1-20 June 2006, 1 Oct 1994-30 Sep 1996).
28. Kolaghat, India (scientific meeting, 27-29 Dec 2013).
29. UMD, Germany (26-27 June 2023, 12 Dec 2017, 5 Nov 2014, 7 May 2013, 27 June 2012, 1 May 2010 - 14 June 2010, 1 Oct 2006 - 30 Nov 2006, 1 Oct 1999 - 24 May 2002).
30. Chonbuk National University, South Korea (11 June 2008 - 10 Aug 2008).
31. Memorial University of Newfoundland, Canada (21 Seo 2004 - 21 July 2005).
32. DIMACS, Center of Discrete Mathematics and Theoretical Computer Science, USA (June 2003).
33. IIT Bombay, India (Scientific Meeting, December 2002).
34. Goethe Institute Hannover, Germany (1 Aug 1999 - 30 Sep 1999).
35. Aussois, France (Scientific Meeting, June 2001).
36. Goethe Institute Freiburg, Germany (01 Aug 1994 - 30 Sep 1994).
37. Tokyo, Hiroshima, Oklahoma Japan, Japan (educational tour, 1989).
38. Other countries: Hong Kong (1989), Thailand (1989), Karachi (1994), Dhaka (1996), Bahrain (2001), London (2003), Abu Dhabi, Czech Republic (2018), Malaysia (2019), Doha.

- Teaching and Research Experiences/Interests (Undergraduate, Master, MPhil.)

1. **Specific.** Scheduling Theory and Algorithms, Linear, Integer and Nonlinear Programmings, Combinatorial, Network, Numerical and Multi-objective Optimizations, Location Analysis, Graph Theory, Operations Research Techniques, Computational Mathematics, Research Techniques/Seminar.
2. **General.** Linear and Abstract Algebra, Mechanics and Hydrodynamics, Discrete Mathematics, Differential and Integral Calculus, Differential Equations, Mathematical Analysis, Numerical Analysis, Mathematical Modelings.
3. Teaching Experiences in Undergraduate, Master's and MPhil. Degree.

- Students Supervision/Evaluation

– PhD graduates Supervision total **14** (completed **9** & ongoing **5**)

1. Dr. Shree Ram Khadka, CDM-TU (Mixed-Model Just-in-Time Sequencing Problem, Jan 27, 2012).
2. Dr. Gyan Bahadur Thapa, Institute of Engineering, TU (Characterizations of Just-in Time Sequencing Problems with Apportionment and Supply Chain, Dec 28, 2013).
3. Dr. Urmila Pyakurel, CDM-TU (Evacuation Planning Problem with Contraflow Approach, March 4, 2016).
4. Dr. Iswar Mani Adhikari, Prithvi Narayan Campus, TU (Evacuation Optimization with Minimum Clearance Time, March 19, 2021).
5. Dr. Ram Chandra Dhungana, CDM-TU (Efficient Dynamic Flow Algorithms for Evacuation Planning, March 23, 2021).
6. Dr. Hari Nandan Nath (with Prof. Dr. Stephan Dempe), Bhaktapur Multiple Campus, TU (Optimization Models and Algorithms for Evacuation Planning, July 2021).
7. Dr. Shiva Prakash Gupta (with Prof. Dr. Urmila Pyakurel), Tri-Chandra Multiple Campus, TU (Models and Algorithms for Flow Over Time Problems, April 2023).
8. Durga Prasad Khanal (with Prof. Dr. Urmila Pyakurel and Prof. Dr. Stephan Dempe), Saraswati Multiple Campus, TU (Multi-Commodity Dynamic Flow Problems with Intermediate Storage and Varying Transit Times, January 2024).
9. Badri Prasad Pangeni, Prithvi Narayan Campus, TU(Non-Conservative Flow Models and Algorithms in Uncertain Networks, October 2025).
10. Mohan Chandra Adhikari (with Prof. Dr. Urmila Pyakurel), CDM-TU (Discrete Time Dynamic Flow Problems with Intermediate Storage, since 2021).
11. Bishow Raj Adhikari (with Prof. Dr. Urmila Pyakurel), Prithvi Narayan Campus, TU (Multicriteria Optimization Models and Methods with its Applications, since 2022).
12. Dipak Babu Amgain (with Prof. Dr. Urmila Pyakurel), CDM-TU (Location Routing-Scheduling Problems in Logistics Network, since 2022).

13. Sachin Wagle (with Prof. Dr. Urmila Pyakurel), Institute of Engineering, TU (Location Models and Methods for Transportation Optimization, since 2022).
14. Giri Raj Paneru (with Dr. Hari Nandan Nath), Tri-Chandra Multiple Campus, TU (Network Flow with Variable Capacities: Modeling, Algorithms, and Applications, since 2023)

– PhD Thesis Evaluation

1. Improvement of algorithm in the particle tracking velocimetry. Department of Electronics and Computer Engineering, IOE, TU (May 2007).
2. Color correction algorithm for reproducing spot colors. Department of Electronics and Computer Engineering, IOE, TU (December 2007).
3. A study on inventory management system. Department of Mathematics. Institute of Technical Education and Research, Siksha 'O' Anusandhan University (SOAU) (July 2016).
4. Deterministic equivalent of multi-objective fuzzy chance constrained programming problem. SOAU, (July 2017).
5. Development of robust invisible watermarking algorithm using slant transform. Department of Electronics and Computer Engineering, IOE, TU (April 2018).
6. EOQ models for imperfect quality items with varying demand and allowable proportionate discount in fuzzy environment. SOAU (April 2018).
7. A study on fuzzy dynamic programming techniques in optimization problems. P.G. & Research Department of Mathematics, Chennai Bharathiar University, Coimbatore, Tamilnadu, India (August 2019).
8. Mathematical modeling of markovian queueing models and their applications. Department of Applied Science and Chemical Engineering, IOE, TU (October 2020).
9. Fuzzy stochastic calculus and it's applications in financial problems. Department of Mathematics, Institute of Technical Education and Research, SOAU (April 2023).
10. On signed Cayley and common-edge graphs with applications in encryption and decryption. Department of Mathematics, Faculty of Mathematics & Computer Science, SAU (September 27 2023).
11. Maximal Index and Related Structural Problems of Signed Graphs. Department of Mathematics, Faculty of Mathematics & Computer Science, SAU (September, 2025).

– MPhil. Students Supervision: total **13** (completed **7** & ongoing **6**)

1. Ram Pratap Sah, Central Department of Mathematics, TU, Nepal (A Prototype Operating Room Scheduling Algorithm with Its Application, September 2025).
2. Madan Bahadur Chand, Central Department of Mathematics, TU, Nepal (Continuous-time Dynamic Flow Problems, April 2022).
3. Santosh Gautam (with Dr. Urmila Pyakurel), Central Department of Mathematics, TU, Nepal (Dynamic Flow on Lossy Network, July 19, 2021).
4. Deepak Babu Amagain, Central Department of Mathematics, TU, Nepal (Quickest flow problem with time dependent attributes, July 19, 2021).
5. Anjana Devi Bhandari, Central Department of Mathematics, TU, Nepal (Quickest Flow Problem and Its Application, January 2020).
6. Shiva Prakash Gupta, Central Department of Mathematics, TU, Nepal (Earliest Arrival of Evacuees with Contraflow Approach, March 2016).
7. Durga Prasad Khanal (with Dr. Urmila Pyakurel), Central Department of Mathematics, TU, Nepal (Dynamic Flow with Inflow-dependent Transit Times, February 2019).
8. Krishna Dhakal, Dynamic Minimum Cost Flow Problem and Its Applications, Central Department of Mathematics, TU, Nepal (2025).
9. Dhana Paneru, Central Department of Mathematics, TU, Nepal (Maximum capacity path problem in network flow optimization, August 2024).
10. Sushmita Shrestha, Central Department of Mathematics, TU, Nepal (Optimising Facility Location: Three-phase Approach for Single Source Capacitated Location, October 2023).
11. Nowraj Tiwari, Central Department of Mathematics, TU, Nepal (Optimizing Profit Using Mixed Integer Linear Programming on Hub Location Problem, October 2023).
12. Tirtha Bhandari, Central Department of Mathematics, TU, Nepal (Dynamic Shortest Path Problem with Time Windows, in progress, since 2020).
13. Meena Machamasi, Central Department of Mathematics, TU, Nepal (A study of A* algorithm in FIFO Networks, in progress, since 2020).

– Master's Degree Thesis Supervision: total **45**

1. Santosh Lamichhane (CDM, TU), Efficiency of Minimum Cost Flow Algorithms (September 2025)

2. Elina Shrestha (CDM, TU), Efficient Algorithm on Flow Model with Intermediate and Its Application.
3. Jayanti Saud (CDM, TU), Flow Location Models and Algorithms for Evacuation Planning (July, 2024).
4. Ram Chandra Timilsina (CDM, TU), An optimization approach for real time evacuation reroute (November 2023).
5. Kushal Thapa (CDM, TU), Flow model for optimal location of alternative refueling stations (June, 2024).
6. Bikram Gautam (CDM, TU), Solution Strategies of Hospital Layout Problem) (June, 2024).
7. Rachan Chhetri (CDM, TU), Evolutionary Multi-objective Optimization for Cancer Chemotherap (June 2022).
8. Sunil Raj Subedi (CDM, TU, 2021), Quadratic programming and its use in portfolio optimization.
9. Kamal Paudel (CDM, TU), A study on minimum cost flow algorithms.
10. Binita Bhatta (CDM, TU), Maximum Flow Problem on Dynamic Network.
11. Tej Prasad Adhikari (CDM, TU, May 2019), Discrete Facility Location Analysis.
12. Komal Raj Joshi (CDM, 2014), Contraflow Optimization for Evacuation Planning.
13. Ajit Poudel (CDM, 2014), Earliest Arrival Flows in Discrete Dynamic Network.
14. Sanat Kumar Acharya (CDM, 2014), Earliest Arrival Flows in Dynamic Network.
15. Ram Chandra Dhaungana (CDM 2014), Efficient Algorithm on Universally Maximum Contraflow.
16. Jnaneshwar Chalise (CDM, 2014), A Study of Earliest Arrival Flow on Series Parallel Graphs.
17. Rajendra Joshi (CDCSIT, 2013), Metaheuristic Solutions to the Response Time Variability Problem.
18. Rabi K.C. (CDM, 2013), Integrated Scheduling Location Problems with Makespan Objectives.
19. Prava Shrestha (CDM, 2013), Integrated Scheduling Location Problem with Sum Objectives.
20. Min Bd. Rana (with S.R. Khadka) (CDM, 2012), Evacuation Planning and Contraflow Network.
21. Ram Krishna Dahal (CDCSIT, 2012), Performance Analysis of Hash Message Digests SHA-2 and SHA-3 Finalists.
22. Tej Bd. Shahi (CDCSIT, 2012), Support Vector Machine Based Part of Speech Tagging for Nepali Text.
23. Bal Krishna Subedi (CDCSIT, 2012), Minimizing the Evacuation Time of Traffic Management Systems Using Simulated Annealing Algorithm.
24. Nanda Kishor Roy (CDCSIT, 2012), Improved Multi-Start Method for Solving the Response Time Variability Problem.
25. Prem Prasai (CDM, 2012), On the Stability Analysis of Open Shop Sequences with Bounded Processing Times.
26. Janak Joshi (CDCSIT, 2012), Heuristic Solution to Single Machine Scheduling Problem to Minimize Total Completion Time.
27. Narendra Bohara (CDCSIT, 2012), Implementing Key Establishment Protocol for Secure System.
28. Thaneshwor Paneru (CDCSIT, 2011), Symmetric Encryption Algorithm Using Code Reuse Technique for Authentication Based on Needham Schoeders' Protocol.
29. Laxmi Joshi (CDCSIT, 2010), A Computational Analysis of Balanced Sequences for JIT Optimization Problems.
30. Puja Bhatt (CDCSIT, 2010), Scheduling Jobs on a Single Machine to Minimize the Number of Tardy Jobs with Release Time Constraints.
31. Raju Prasad Bhusal (CDM, 2010), Irreducibility of Open Shop Scheduling Problems.
32. Deepak Babu Amgain (CDM, 2010), On the Structural Analysis of Shop Scheduling Problems: Algebraic Characterizations and Potential Optimality.
33. M. Bdr. Khadka (CDCSIT, 2009), An Efficient Algorithm for Mixed Model Just-in-time Production System with Chain Constraints.
34. Thaneshwor Pd. Paneru (CDM, 2009), Sequencing Approaches to the Product Rate Variation Problem.
35. Prem Bhatta (CDCSIT, 2009), On the Cyclic Sequences in Mixed Model JIT Production System.
36. B. Pandey (CDCSIT, 2009), Cyclic Sequences for Min-max Objective in Mixed Model JIT Production System.
37. N. Regmi (CDCSIT, 2008), Evaluating Heuristic Solutions for NP-hard Single Machine Scheduling Problems.
38. D. Pandey (CDCSIT, 2008), On the Solvability and Implementation of Mixed Model JIT Production System.
39. Chudamani Poudyal (CDM, 2008), Bottleneck Just-in-time Sequencing for Mixed-model Production Systems.
40. Dina Nath Poudyal (CDM, 2008), Open Shop Scheduling Problems with Unit Processing Times.
41. Milan Joshi (CDM, 2008), Open Shop Scheduling Problems with Arbitrary Processing Times.
42. Urmila Pyakurel (CDM, 2008), On the Solvability of Open Shop Scheduling Problems.
43. Yagya Raj Pant (CDM, 2008), On the Relations Between the Optimal Solutions of Product Rate Variation Problem with Different Objectives.
44. Bishnu Gautam (CDCSIT, 2004), Complexity Analysis of Open Shop Scheduling Problems.
45. Mulepati (CDCSIT, 2004), Computational Complexity Analysis of Job Shop Scheduling Problems.

- Academic Membership (Journal, Organization, University and Government)

- Academic Accountability
  - University Chair/Member
    1. Institute of Engineering, TU: Research Committee (Member 2023-...); Applied Sciences and Chemical Engineering Subject Committee (Member 2020-...).
    2. CDM-TU: Research Committee (Chairman 2020-..., Member 2015-..., 2006-2010); Standing Committee (Chairman 2020-..., Member 2010-...), Subject Committee (Chairman 2020-..., Member 2008-...).
    3. Mathematical Sciences IOST, TU: Management Committee (Member 2020-...), Subject Committee (Member 2013-2016).
    4. Member Academic Council, Tribhuvan University, Kathmandu Nepal (2020-2022).
    5. Department of Mathematics, School of Science, Kathmandu University (KU): Subject Committee (Member 2020-2023, 2008-2011).
    6. Central Department of Linguistics, TU: Subject Committee (Member 2011-2014).
    7. CDCSIT-TU: Subject Committee, Standing Committee and Research Committee (Chair 2007-2013); Subject Committee (Member).
    8. IOST-TU: Faculty Board (Member 2007-2013, 2020-...); Standing Committee (Member 2007-2008, 2020-...),
  - Other Chair/Member: Science & Technology Cluster, University Grants Commission, Nepal (Member 2019-2021); Mathematics Subject Committee, HSEB, Government of Nepal (Chairman 2015-2016); Nepal Information Technology Council (Member 2011- 2013); Mathematical Sciences Scientific Sub-Committee, NAST (Member 2006-2009, 2016-2018).
- Journals
  - Editor-in-Chief
    1. International Journal of Operational Research Society of Nepal - IJORN (2013-2014).
    2. Journal of Nepal Mathematical Society- JNMS (2017-2018).
    3. The Nepali Mathematical Sciences Report- Nepali Math. Sci. Rep. (2020-...).
  - Editorial Board Member: Recent Trends in Applied Mathematics- Select Proceedings of AMSE 2019 (Springer Nature), Academic Journal of Applied Mathematical Sciences (2020-2022), Indian Journal of Mukpublications: Applied Mathematics and Computing (2020-...), Malaysian Journal of Computing (MJoC, 2020-2022), Nepali Math. Sci. Rep. (1998-2006, 2014- ...), IJORN (2012, 2015), NMS News Letter (2006-2009).
  - Advisory Board Member: Mindanawan Journal of Mathematics.
  - Reviewer: Theoretical Computer Science, Mathematical Reviews (2015-...), Zentralblatt Math (2015-...).
  - Reviewer: Theoretical Computer Science, European Journal of Operations Research (2024-...); Journal of the Operational Research Society - Taylor & Francis (2024-...); Journal of Data Science and Intelligent Systems, JDSIS, (since 2025), Journal of Interdisciplinary Mathematics (2024-...); OPSEARCH (2023-...); Discrete Dynamics in Nature and Society (2023-...); Journal of Industrial and Management Optimization (2022-...); SN Scientific Reports (2021-...); Journal of Hindawi (Advanced Transportation (2020-...); Annals of Operations Research (2019-...); International Journal of System Control and Information Processing- IJSCIP (2017-...); International Journal of Cities, People and Places- ICCPP (2017-...), Journal of Institute of Engineering (2016-...); Engineering Optimization, Taiwan (since 2015-...); Information Technology Research Journal (2011-...); Journal of Decision Support Systems (2010-...); Journal of Science and Technology, NAST (2009-...); Journal of OR Society, UK; Proceedings of ECIC (2008).
- International Society Member: American Mathematical Society (2018-...); Steering Committee of the Silkroad Mathematics Center of Chinese Mathematical Society Beijing (2016-2019); International Society on Multiple Criteria Decision Making- MCDM (2010-...).
- National Society Chair/Member: President of the Prof. Dr. Urmila Pyakurel Madhushree Academy (2023-...), CDM-TU Alumni Association (Patron 2023, life member), Nepal Mathematical Society (President 2015-2018, Advisor 2018-2023, Secretary 2006-2009, Life member-...); Nepal German Academic Association (NEGAAS) (President 2020-2022; Vice-President 2014-2016, EC 2006-2008, Life member: 2005-...); Humboldt Club of Nepal (2015-...); German Alumni Association of Nepal- GAAN (2015-2017); ORSN (General 2010-2011, Life 2012-..., EC 2013-2015).

- Seminar/Workshop/Conference (Organizer/Advisor/Member): total **42+**

1. Member -Advisory Board, Eight International Conference on Emerging Trends in Mathematical Sciences & Computing (IEMSC-26), Department of Basic Science and Humanities, Institute of Engineering & Management under University of Engineering and Management, Kolkata, February 6-8, 2026.
2. Member - Advisory Board, Humboldt Colleague KHK2025, Kathmandu, October 28-30, 2025.

3. Convener, Humboldt supported Workshop on Operations Research in Health Care – Modeling and Implementation in Python. Principal resource persons - Prof. Dr. Stefan Nickel and Hannah Bakker, Karlsruhe Institute of Technology (KIT), Germany. Organized by Central Department of Mathematics, TU, March 24 - April 3, 2025.
4. Member, Scientific Committee, International Conference in Non-Linear Analysis and Optimization (ICAN-OPT), Organized by Kathmandu University, May 8-10, 2025.
5. Member, Advisory Committee: Sixth International Conference on Emerging Trends in Mathematical Sciences & Computing (IEMSC-25). Organized by Department of Basic Science and Humanities, Institute of Engineering and Management, Kolkata, February 7-9, 2025.
6. Member - Scientific Committee: Annual International Congress on Computer Science, April 19-20, 2025, Oxford, United Kingdom (Online).
7. Member - Advisory Board: International Conference on Differential Equations: Theory, Computation and Applications, South Asian University, NewDelhi, India, November 30-December 2, 2024.
8. Member - Advisory Board: 3rd International Conference on Applied Mathematics in Science and Engineering (AMSE-2024) July 25-27, 2024.
9. Member- Advisory Board: Int'l Conference on Sustainable Business: Nurturing People, Planet, and Profit (ICSB-2024), MBA Department of the Institute of Management and IT, Cuttack, Biju Patnaik University of Technology, Rourkela, Odisha, October 25-26.
10. Member, Int'l Advisory Committee- 3rd Int'l Conference on Applied Mathematics in Science and Engineering (AMSE-2024), July 25-27, 2024, Odisa, India.
11. Patron: International Workshop in Computational Mathematics (IWCM-2023), organized by CDM-TU and SAU, March 11-13, Kathmandu.
12. Patron: Infectious Disease Workshop- Mathematical Modeling for Epidemic Control and Prevention, organized by CDM-TU, Nepal Health Research Council- Nepal Government and San Diego State University, US, 21-24 June 2022.
13. Patron: A Three Day Workshop on Numerical Linear Algebra, Modeling and Simulation of Evolution Equation (NLAMSEE-2022), organized by CDM-TU and UKL, October 17-19, Kathmandu.
14. Member and Session Chair: International Conference "Interdisciplinary Collaboration for Strengthening Science and Culture", KHK-2022, organized by Humboldt Club Nepal, October 16-19.
15. Member: Intl Advisory Committee, Third International Conference on Emerging Trends in Mathematical Sciences & and Computing (IEMSC-22), Department of Basic Science & Humanities Institute of Engineering & Management, Kolkata, India (February 4-6, 2022).
16. Member: International Advisory Committee, 2nd Intl Conference on Applied Mathematics in Science and Engineering (AMSE-2022), SOAU, March 24-26, March 2022.
17. Member: Scientific Committee, 22nd International Mathematics Conference (virtual), organized by Bangladesh Mathematical Society, December 10-11, 2021.
18. Coordinator: 1st Virtual Southeast Asian Study Group Meeting on Industrial Problems, organized/ collaborated by Nepal, Germany, UK, Finland, Thailand, Malaysia, India and other SAARC countries (VSEASGMIP2020), hosted by Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India, October 12-16.
19. Coordinator: 2nd Virtual Southeast Asia Study Group Meeting on Industrial problems (VSEASGMIP2021), Office of International Affairs, Center for Industrial Mathematics, Department of Applied Mathematics, Mathematics and Statistics The Maharaja Sayajirao University of Baroda, Vadodara,Gujarat,India, November 15-19, 2021.
20. Coordinator: Virtual Workshop on Managing Disaster Risk- A Way to Sustainability, NEGAAS, 21-22 Nov 2021.
21. Member: Advisory Board, International Conference on Recent Advances in Informatics, Communication, Management, Health and Applied Sciences, Brainware University, Kolkata, February 2-4, 2019.
22. Member, International Scientific Committee: International Conference on Applied Mathematics, Modeling, Simulation and Optimization (AMMSO2019), April 21-22, 2019 in Guilin, China.
23. Convener: 2nd International Conference on Advanced in Computational Mathematics, organized by CDM-TU and SAU, December 23-24, Kathmandu.
24. Member: Intl Advisory Board, 23rd Intl Conference of International Academy of Physical Sciences, Advances on Physical Sciences to Achieve Sustainable Development Goals, NAST, November 16-18, 2018.
25. Coordinator: Scientific Committee, 11th Triennial Conference of Association of Asia Pacific Operational Research Societies (APORS-2018), August 6-9, Kathmandu.
26. Organizer: Workshop on Linear, Integer and Multi-Criteria Optimization, DAAD Partnership Program, March 12- April 23, 2018, Kathmandu. Principal resource person- Prof. Sven O. Krumke, UKL.

27. Organizer: Workshop on Convex Optimization, supported by Research Group Linkage Program of the AvH, February 27-March 7, 2018, Kathmandu. Principal resource person- Prof. Stephan, Dempe, TUFB.
28. Co-organizer (with Urmila Pyakurel and Marc Goerigk): Preparation Workshop for UK-Nepal Cooperation in Emergency Management Research (Optimization Models for Disaster Resilience in Nepal), organized by Lancaster University, United Kingdom and CDM-TU, September 1-2, 2017, Kathmandu.
29. Organizer: Workshop on Advanced Network Flows, supported by DAAD Partnership Program, March 26- April 6, 2017, Kathmandu. Principal resource person- Prof. Sven O. Krumke, UKL.
30. Organizer: Workshop on Bilevel Optimization, supported by Research Group Linkage Program of the AvH, February 28-March 7, 2017, Kathmandu. Principal resource person- Prof. Stephan, Dempe, TUFB.
31. Convener: International Conference on Applications of Mathematics to Nonlinear Sciences, organized by CDM-TU, NMS, ANMA and KU, May 26-29, 2016, Kathmandu.
32. Coordinator: Workshop on Mathematical Modeling in Emergency Mitigation Using Optimization and Simulation Methods, organized by NEGAAS in collaboration with CDM-TU and ORSN, November 26- 29, 2013.
33. Organizer: Workshop on Theoretical Computer Science, organized by CDCSIT-TU, December 4-6, 2012. Principal resource person: Dr. Arne Meier, University of Hannover, Germany.
34. Organizer: Seminar on Singularities and Applications, organized by CDCSIT and CDM, TU, October 8-10, 2012. Principal resource person: Prof. Dr. Gerhard Pfister, UKL.
35. Member: International Conference on OR, organized by OR Society of Nepal, February 1-2, 2012.
36. Convener: National Workshop on Mathematical Modeling in Emergency Planning, organized by NEGAAS in collaboration with CDM-TU, March 1-4, 2011. Principal resource person- Prof. Horst W. Hamacher.
37. Convener: National Workshop on Fuzzy Sets and Fuzzy Logic with Applications, organized by CDM-TU and Central Department of Environmental Science-TU, December 1-5, 2009.
38. Coordinator: Monthly Talk Organizing Committee, NMS (2006-2009).
39. Co-organizer: Workshop on Computational Linguistics, organized by CDCSIT-TU and Central Department of Linguistics, TU, February 15-20, 2009.
40. Member: Organizing Committee, the 10th International Workshop on Multimedia Signal Processing and Transmission (MSPT), Chonbuk National University, South Korea, July 21-22, 2008.
41. Member Secretary: International Conference on E-Commerce in the 21st Century (ECIC-2008), organized by CDCSIT-TU, 2-4 June, 2008.
42. Summer School (Coordinator: Managing Committee & Member: Organizing Committee), organized by NAST and NMS, May 28- June 15, 2007.

- Seminar/Workshop/Conference (Presentation and Participation): total **94+**

1. Talk: *Efficient Algorithms to Solving Evacuation Planning Problems*, Research Seminar, Department of Mathematics, University of Mannheim, Germany, July 21, 2025.
2. Talk: *Efficient Network Flow Approach for Speed-Adjusted Congestion Reduction*, Colloquium, KIT, July 1, 2025.
3. Talk: *Evacuation Planning: Multi-Objective Approach*, Colloquium, RPTU Kaiserslautern-Landau, June 24, 2025.
4. Talk: *Multiple Network Flow Approaches for Efficient Evacuation Planning and Congestion Mitigation*, Research Seminar, Universit´e de Haute Alsace, Mulhouse, France, June 19, 2025.
5. Plenary talk, *Improving Evacuation Outcomes by Achieving Optimal Dynamic Flow*, International Conference on Non-Linear Analysis and Optimization, Kathmandu University, May 8-10, 2025.
6. Session chair, Sixth International Conference on Emerging Trends in Mathematical Sciences & Computing (IEMSC-25), organized by Department of Basic Science and Humanities, Institute of Engineering and Management, Kolkata, February 7-9, 2025.
7. Talk: *Optimization Approaches for Evacuation Planning*. Invited Colloquium talk at Faculty of Mathematics and Computer Science, Heidelberg University, Germany, October 31, 2024.
8. Talk: Tanka Nath Dhamala - *Flow Models with Maximum Excess and Least Loss*. Invited talk at Doctoral Seminar, Recent Developments in Data Science University of Passau, Germany, November 14, 2024.
9. Talk: *Meaningfulness of OR Strategies to Disaster Management in Nepal*. Invited talk at Business Decision and Data Science, University of Passau, Germany, November 14, 2024.
10. Keynote/plenary talk: Flow Models and Algorithms in Emergency Planning, 3rd International Conference on Applied Mathematics in Science and Engineering (AMSE-2024) July 25-27, 2024.

11. Talk: Evacuation Planning Algorithms with Excess Flow Storage, Mathematics/Computer Science Colloquium Series, Santa Clara University, USA, April 16, 2024.
12. Keynote speaker: Roles of OR modelings for Reducing Traffic Congestion, Int'l Conference of ORSN, Kathmandu, February 1-2, 2024.
13. Invited Talk: Urmila's dedication to Science, Society and Humanity, organized by Women of Nepal in Mathematical Science (NoNiMS), 10th WoNiMS Day- 2023, Kathmandu.
14. Keynote speaker: Progress Dissemination on Flow Models, PhD Festival, IOST, TU, 9-10 October 2023.
15. Participation: Third NRN Global Knowledge Convention, organized by Non Resident Nepali Association, October 17-18, 2023, Kathmandu.
16. Talk: Network Flow Models for Flow Improvement, Research Seminar, FMA-RPTU-KL, September 22, 2023.
17. Talk: Flow Improvements: Priority Based Multiple Objectives, Research Seminar, Department of Mathematics and Computer Science, TUFB July 27, 2023.
18. Talk: Insights on Efficient Evacuation Planning Issues, Research Seminar, FMA-UMD, June 27, 2023.
19. Talk: (with Durga Pd. Khanal, Urmila Pyakurel, Stephan Dempe, Ingo Schiermeyer), Prioritized Maximum Multi-Commodity Flow in Evacuation Planning, 6^{th} Intl Conference on Dynamics of Disasters (DOD), Athens, 3-6 July 2023.
20. Participation: Annual Meeting of the Alexander von Humboldt Foundation, June 28-30, 2023, Berlin, Germany.
21. Talk: Results on Emergency Planning Strategies - Overview. Karlsruhe Institute of Technology (KIT), Institute of Operations Research (IOR), Germany, June 15-17, 2023.
22. Invited speaker: OR Models for Congestion Reduction and Emergency Relief: A Collaborative Outcome. Intl Conference "Interdisciplinary Collaboration for Strengthening Science and Culture", KHK-2022, organized by Humboldt Club Nepal, October 16-19.
23. Invited speaker: Innovation and Knowledge Management - Chaotic Transport Optimization for Sustainable Development. 9th National Conference on Science and Technology "Science for Society and Innovation for Prosperity", organized by NAST, June 26-28, 2022.
24. Guest of honor, plenary speaker and session chair: Network Reconfiguration for Optimal Evacuation Plans, International Conference Advances in Mathematics & Computing (ICAMC-2020), Department of Mathematics, Veer Surendra Sai University of Technology Siddhi Vihar, Burla, Odisha, February 7-8.
25. Guest of honor and keynote speaker: Computational Hardness of Evacuation Planning Problem, 3rd International Conference on Advanced Mathematical Analysis & Its Applications (ICAMAA-2020), P.G. Department of Mathematics Berhampur University Bhanja Bihar, Odisha, February 4-5.
26. Talk: Efficient Algorithms for Evacuation Planning Problems, Department of Mathematics, SAU, February 3, 2020.
27. Talk: Network Reconfiguration for Optimal Evacuation Plans, Siksha 'O' Anushandhan University (Deemed to be University), Odisha, India, February 6, 2020.
28. Poster: GraThO (Graph Theory and Optimization for the Industry and Society), DAAD - ASIA Network Conference. Myanmar, November 11-13, 2019.
29. Invited talk, guest of honor and session chair: Significance of Dynamic Network Attributes in Realizing the Emergency Planning Optimal Solutions, Intl Conference on Applied Mathematics in Science and Engineering, Center for Applied Mathematics & Computing and Department of Mathematics of SOA, Odisha, India, October 24-26, 2019.
30. Talk: Optimal Network Topology for the Maximization of Dynamic Flows, Institute for Mathematical Research (INSPEM), Universiti Putra Malaysia (UPM), August 31, 2019.
31. Talk: Dynamic Network Flow Algorithms for the Quickest Evacuation Planning Problem. LIAS Seminar, University of Luxembourg, June 24, 2019.
32. Talk: Optimal Network Topology for the Quickest Evacuation Planning, Research Seminar, TUFB, June 11, 2019.
33. Plenary speaker: Intl Conference on Mathematical Optimization - Silkroad Mathematics Center Series Intl Conferences, Chinese Mathematical Society and Academy of Mathematics and Systems Science, Chinese Academy of Sciences (AMSS, CAS), Beijing, April 8-13, 2019.
34. Plenary speaker and session chair: The 12th Intl Conference on Numerical Optimization and Numerical Linear Algebra, Shangrao, Jiangxi, organized by AMSS, CAS, April 15-18,2019.
35. Plenary chair: 2nd International Conference on Advanced in Computational Mathematics, organized by CDM-TU and SAU, December 23-24, Kathmandu.
36. Talk: Flow Models and Solution Strategies for Evacuation Planning Problems, Department of Mathematics, Technical University Berlin, Germany, December 5, 2018.

37. Talk: Insights on Dynamic Network Flow Problems for Evacuation Planning, FMA-UKL, November 26, 2018.
38. Plenary speaker: International Conference on Recent Advances in Informatics, Communication, Management, Health and Applied Sciences, Brainware University, Kolkata, February 2-4, 2019.
39. Plenary speaker and plenary session chair: Strength and Weakness of Flow Models and Solution Strategies in Emergency Planning, APORS-2018, August 6-9, Kathmandu.
40. Talk: Network Flow Algorithms for Evacuation Planning Problems, School of Mathematics and Computational Science, Xiangtan University, China, July 24-26, 2018.
41. Keynote speaker: On the Hardness of Network Optimization Algorithms in Emergency Management, Intl Conference on "Advances in Science and Technology, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (INDIA), May 4-5, 2018.
42. Talk: Flow over Time Problems with Variable Attributes, Research Seminar, TUFB, Germany, January 18, 2018.
43. Talk: Influence of Contraflow Reconfiguration for Dynamic Flow Models on Congested Networks, Research Seminar, UMD-FMA, Germany, December 12, 2017.
44. Talk: Highlights and Implementation Challenges of Emergency Planning Models for Kathmandu, Preparation Workshop for UK-Nepal Cooperation in Emergency Management Research (Optimization Models for Disaster Resilience in Nepal), organized by Lancaster University, UK and CDM-TU, September 1-2, 2017, Kathmandu.
45. Invited talk and session chair: Dynamic Flow Models and Algorithms for Evacuation Planning, International Conference on Computational Modelling and Simulation (ICCMS-2017), Sri-Lanka, May 17-19.
46. Talk: Model Variants and Solution Strategies of Evacuation Planning Problems, Academy of Mathematics and System Sciences, Chinese Academy of Sciences, Beijing, China, April 19, 2017.
47. Talk: Impacts of OR Solution Strategies in Real-Life, National Conference on Mathematics and Its Applications, organized by NMS, Chitwan, Nepal, January 11-13, 2017.
48. Talk: Meaningfulness of Emergency Planning Strategies, Colloquium, Chinese Mathematical Society, China Academy of Sciences, Beijing, December 9, 2016.
49. Talk: Models and Algorithms of Evacuation Planning Problems, Research Seminar, TUFB, October 24, 2016.
50. Participation: Workshop on Optimization and Graph Theory for Industry and Society, MSU-IIT, Philippines, June 13-24, 2016.
51. Plenary speaker: Impact of Network Flow Models on Emergency Planning, International Conference on Applications of Mathematics to Nonlinear Sciences, organized by CDM-TU, NMS, ANMA and KU, May 26-29, Kathmandu.
52. Invited talk: On the Meaningfulness of OR Models and Algorithms for Emergency Planning, International Conference - Humboldt Kolleg, Living under Threat of Earthquake, Kathmandu, February 19-22, 2016.
53. Talk: Significance of Transportation Network Models in Emergency Planning of Urban Cities, Third International Urban Design Conference - Cities, People and Places (ICCPP -2015), October 26-28, Colombo, Sri-Lanka.
54. Keynote speaker: Relevance of OR Models in Evacuation Optimization, Mathematics Day, CDM-TU.
55. Talk: Evacuation Planning: A Case Study for Kathmandu, NEGAAS, April 11, 2015.
56. Participation: Alumni Workshop, Research on Migration from Nepal, March 19, 2015, Kathmandu.
57. Keynote speaker: OR Models for Evacuation Planning: Kathmandu Metropolitan Perspective, National Conference of ORSN, February 1, 2015.
58. Talk: Model Variants for optimal Evacuation Planning with Solution Procedures, CDM-TU, January , 2015.
59. Panelist moderator: DAAD Research Ambassador's workshop meeting, November 13-15, New-Delhi, 2014.
60. Talk: Evacuation Planning Optimization - Model Variants and Solution Strategies, Research Seminar, UMD-FMA, Germany, November 5, 2014.
61. Talk (with S.R. Khadka and U. Pyakurel): Efficient Evacuation Through Optimal Network, Annual day of NMS, Kathmandu, May 17, 2014.
62. Plenary speaker: On the Current Status of Solution Approaches for Evacuation Network Optimization, International Conference on Recent Trends in Science and Technology, Kolaghar, India ICRTST 2013, December 27-29.
63. Talk: Contraflow Configuration, Workshop on Mathematical Modeling in Emergency Mitigation Using Optimization and Simulation Methods, organized by NEGAAS in collaboration with CDM-TU and ORSN, November 26-29, 2013.
64. Talk (with M. Goerigk and Horst W. Hamacher): Dynamic Network Models, Algorithms and Complexities of Evacuation Planning Optimization Problems: Revisited, Intl Conference on Nonlinear Systems, 18-22 June 2013, Nepal.
65. Talk (with Urmila Pyakurel): Earliest Arrival Contraflow Model for Evacuation Planning, International Conference on Nonlinear Systems, 18-22 June 2013, Kathmandu.

66. Talk (with Urmila Pyakurel): Earliest Arrival Contraflow Problem for Evacuation Planning, Second National Conference on Operations Research: Applications in Developing Countries, ORSN, February 1-2, 2013.
67. Talk: Evacuation Planning Network Optimization, Research Seminar, UKL-FMA, Germany, June 10, 2013.
68. Talk: Contraflow Approach for Evacuation Planning Network Optimization Algorithms, Research Seminar, Department of Theoretical Computer Science, LUH, Germany, May 15, 2013.
69. Talk: On the Optimization Approaches of Evacuation Planning Network Problems, Research Seminar, UMD-FMA, Germany, May 7, 2013.
70. Talk: Mixed-Model Just-in-Time Sequencing Algorithms, Research Seminar, UMD-FMA, Germany, June 27, 2012.
71. Participation: Annual Meeting of Alexander von Humboldt Foundation, June 19-21, 2012, Berlin, Germany.
72. Participation: Study Tour of Alexander von Humboldt Foundation, August 20-September 1, 2012, Berlin, Germany.
73. Talk: An Efficient Algorithm for Mixed-Model Just-in-Time Production with a Generalized Objective, Research Seminar, Department of Theoretical Computer Science, LUH, Germany, May 30, 2012.
74. Poster: Evacuation Planning Network Optimization, Research Project Highlights, Network Meeting of the AvH, Aachen, Germany, 25-27 April 2012.
75. Panelist, OR for Sustainable Development, International Conference on OR, ORSN, Feb 1-2, 2012.
76. Participation: Summer School in Industrial Mathematics, UKL and Fraunhofer-Institute for Industrial Mathematics, Germany, 19 September- 2 October, 2010.
77. Talk: Reducibility Problems of Open Shop Sequences. TU Clausthal-Zellerfeld, Germany, June 10, 2010.
78. Talk: Reducibility Problems of Open Shop Sequences Minimizing the Makespan. UMD-FMA, June 1, 2010.
79. Talk: Irreducibility in Open Shop Problems. UKL-FMA-Germany, May 10, 2010.
80. Invited talk: New Results on Product Rate Variation Problem. Seminar organized by CDM-TU and NMS on 50th Anniversary of CDM-TU, September 20, 2009.
81. Talk: An Algorithm to the Bottleneck Product Rate Variation Problem with Square Deviation Objective. 5th National Conference on Science and Technology, NAST, November 10-12, 2008.
82. Talk: A Combined Approach to the Solutions of Mixed-model JIT Sequencing and Apportionment Problems. 5th National Conference on Science and Technology, NAST, November 10-12, 2008.
83. Invited talk: Status of Teaching, Learning and Research of Mathematics in Nepal. 5th National Conference on Science and Technology, NAST, November 10-12, 2008.
84. Talk: Structures of Sequences in the Classical Open-shop Scheduling Problem. 10th International Workshop on Multimedia Signal Processing and Transactions, Chonbuk National University, Korea, July 21-22, 2008.
85. Talk: Balanced Sequences in Just-in-time Production and Fair House of Representatives. NMS Day, May 14, 2007.
86. Talk: JIT Sequencing for Mixed-model Production Systems. UMD-FMA-Germany, November 20, 2006.
87. Talk: Absolute Maximum Deviation Just-in-time Sequencing Problem for Mixed-model Production Systems. Seminar on Mathematical Sciences and its Applications, CDM-TU and NMS, September 20-21, 2006.
88. Participation: Int'l Workshop, Fraunhofer Institut Techno–und Wirtschaftsmathematik (ITWM), UKL, Germany, September 14-15, 2006.
89. Participation: Summer School "Mathematics International", UKL-FMA-Germany, September 1-30, 2006.
90. Invited talk: Real-world Problem Selection and Solution Strategy. Seminar on Research Techniques in Mathematics, Janamaitri Multiple Campus, Kathmandu, July 8, 2006.
91. Talk: Potentially Optimal Sequence-sets in Shop Problems. DIMACS-RUTCOR Seminar, Rutgers - The State University of New Jersey, USA, June 25, 2003.
92. Talk: Mathematics in Industry: Modeling, Algorithms and Complexity. Seminar on Applicable Mathematics, CDM-TU, September 18-19, 2002.
93. Participation: Intl Conference and Instructional Workshop of Industrial Mathematics, Bombay, 2-9 December 2002.
94. Talk: On Algebraic Structures in Shop Scheduling Problems, the Super Sequence Group. UMD-FMA, Germany, February 22, 2001.

- Scientific International Webinar (Presented/Participated): total **36+**

1. Keynote speaker: Efficient Algorithms on Dynamic Flow Improvement Strategy, International Conference on Mathematics and Statistics in the Era of Data Science, Central University of Jharkhand, Ranchi India, March 18, 2025.

2. Session chair: Fifth International Conference on Emerging Trends in Mathematical Sciences & Computing (IEMSC-24), 2nd - 4th February, 2024
3. Participation: Alumni Workshop - Management and Funding of International Cooperation Projects, DAAD Regional Office New Delhi, April 27-28, 2023.
4. Panelist: Research Opportunities in Data Science & Mathematics, Webex, organized by DAAD, February 17, 2022.
5. Session chair: Fourth International Conference on Emerging Trends in Mathematical Sciences & Computing (IEMSC-23) (Keynote speaker: FIELDS MEDALIST 2022: Maryna Viazovska).
6. Participation: Mathematics in Industry: Challenges and Frontiers, Office of International Affairs (OIA), The Maharaja Sayajirao University, Baroda, India, June 3, 2020.
7. Participation: Focusing on Mathematical Models & Analysis of COVID-19 Crisis, Office of International Affairs, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India and Lappeenranta University of Technology, Finland, June 17-18, 2020.
8. Participation: 2nd Intl Day of Mathematics, organized by Bangladesh Mathematical Society (BMS), March 14, 2021.
9. Talk: International Alumni event ("DAAD alumni work despite/defies Corona", organized by ADIT: Info talk on - NEGAAS and DAAD-Alumni Activities, May 28, 2021; June 11, 2021).
10. Participation: COVID-19 and Public Health Crises: Updates and Appeals from Nepal, Initiated by the Commission for Educational Exchange between the United States and Nepal and by the Fulbright Alumni Association of Nepal (also co-sponsored by NEGAAS), June 8, 2021.
11. Participation: Intl Symposium on Locational Decisions (ISOLDE XV), University of Wuppertal, Germany, 5-9 July 2021.
12. Participation: 5th International Conference on Dynamics of Disasters, DOD 2021, Greece, July 16-18, 2021.
13. Participation: DAAD web session on SDG Partnerships 2022-2025, DAAD Regional Office, New Delhi, 3 Aug 2021.
14. Participation: Ongoing Humboldt New Mobility Conference, organized by AvH, September 13-14, 2021.
15. Participation: DAAD online meeting - Connecting Germany and South Asia - The Future of Higher Education and Research Cooperation, October 18-22, 2021.
16. Talk: Scientific Models to Optimize Traffic Congestion in Emergency Management, Virtual Workshop on Managing Disaster Risk - A Way to Sustainability, NEGAAS, November 21-22, 2021.
17. Invited talk: Flow Models to Optimize Traffic Congestion in Emergency Planning, 22nd International Mathematics Conference, Bangladesh Mathematical Society (BMS), December 10-11, 2021.
18. Participation: One World Optimization Seminar (OWOS), organized by Radu Ioan Boţ (University of Vienna), Shoham Sabach (Technion - Israel Institute of Technology Haifa) and Mathias Staudigl (Maastricht University) (June 1, 2020; June 8, 2020; June 15, 2020; June 22, 2020; June 29, 2020; July 6, 2020; July 13, 2020; July 20, 2020; July 27, 2020; September 7, 2020; September 14, 2020; September 21, 2020; September 28, 2020; November 17, 2020; April 12, 2021; April 19, 2021; May 3. 2021; May 10, 2021; May 24, 2021; June 14, 2021; June 28,2021).
19. Participation: Annual Meeting of the Alexander von Humboldt Foundation, Berlin, Germany, June 24-25, 2020.
20. Participation: Web of Science webinar: Supporting COVID-19 Research Efforts: How to Make Your Search Strategies More Effective and Efficient? 25 June 2020.
21. Participation: Sudoku- Fun and Serious Mathematics, Office of International Affairs, The Maharaja Sayajirao University of Baroda, India and TU Eindhoven, The Netherlands, July 3, 2020.
22. Participation: Operations Research Tools to COVID-19 for Sustainable Future, ORSN, July 11, 2020.
23. Invited speaker and participation: IFORS Global Webinars (ALIO, July 29, 2020; APORS November 30, 2020; EURO, September 30, 2020).
24. Participation: DAAD-Freundeskreis International Language Café, Heidelburg, Germany, August 1, 2020.
25. Invited talk: Network Optimization Techniques for Efficient Emergency Planning, Intl Webinar on Role of Applied Sciences in Industry and Engineering, Department of Mathematics, Osmania University, Hyderabad, 2-5 May 2020.
26. Session chair and participation: International Webinar on Recent Advances in Pure and Applied Mathematics (RAPAM-2020), Department of Mathematics, Kurseong College, Darjeeling, August 24-25.
27. Webinar: DAAD Information Session (Tribhuvan University - Study and Research in Germany, August 28, 2020), conducted by DAAD India.
28. Participation: Merging Dynamics with Data - A Mathematical Perspective on Climate Science", Institute of Climate Change Research, The Maharaja Sayajirao University of Baroda, August 29, 31, September 5, 2020.
29. Invited talk: Optimization Methods for Efficient Evacuation Planning, Intl Conference on Computational Sciences-Modelling, Computing and Soft Computing (CSMCS-2020), NIT, Calicut, India, Sept 10-12.

30. Panelist: Pre-APORS Conference 2020 OR - Continuing Relevance in Challenging Times, September 23-25, 2020, organized for APORS by the OR Society of the Philippines (ORSP).
31. Invited talk: Network Flow Models and Algorithms with Emergency Location and Logistics; IFORS Global Webinar Series, O.R. in the Asia Pacific: Recent Trends and Practices, September 30, 2020.
32. Participation: DAAD online meet, Connecting Germany and South Asia–Fostering Partnerships in Higher Education, DAAD New Delhi in association with DAAD Bonn Section P24 – Cooperation Projects and University Grants Commission (UGC), Govt. of India, October 29-30, 2020.
33. Participation: DAAD Alumni Program, DAAD South Asian Regional Office New Delhi, India, November 6, 2020.
34. Invited plenary speaker: Quickest Flow Improvement with Network Reconfiguration, MINDANAWAN MATH-STAT International Webcon (Strengthening Mathematical and Statistical Competencies through Convergence in the New Normal), MSU-IIT, Mindanao, Central University, Mathematical Society and Southern Society of Theoretical and Applied Statistics at Philippines, November 4, 11 and 18, 2020.
35. Participation: Webex, Transnational Education - Insights into the international discourse and global trends, organized by DAAD regional office New Delhi, November 18, 2020.
36. Invited plenary speaker and international advisor: Flow Improvement Strategy Using Lane Reversals on Evacuation Network, February 5-7, Calcutta, India.

- Physical/Virtual Conferences Co-presentations with (**81+**)

1. (with Badri Prasad Pangeni) *Shortest Path Guided Non-Conservative Maximum Flow in Uncertainty*, International Conference on Non-Linear Analysis and Optimization, Kathmandu University, May 8-10, 2025.
2. (with Bishwa Raj Adhikari, Hari Nandan Nath), *Non-Dominated Maximum Flows in Single-Source, Multi-Sink Networks*, International Conference on Non-Linear Analysis and Optimization, Kathmandu University, May 8-10, 2025.
3. (with Giri Raj Paneru, Hari Nandan Nath), *Minimum Cost Flow with Capacity Enhancement Cost on Arcs*, International Conference on Non-Linear Analysis and Optimization, Kathmandu University, May 8-10, 2025.
4. (with Mohan Chandra Adhikari), *Earliest Arrival Flows with Excess Storage on Series Parallel Lossy Networks*, International Conference on Non-Linear Analysis and Optimization, Kathmandu University, May 8-10, 2025.
5. (with Sachin Wagle), *Maximum Partial Contraflow loc Problem with Solution Strategy*, International Conference on Non-Linear Analysis and Optimization, Kathmandu University, May 8-10, 2025.
6. (with Dipak Babu Amgain, Durga Prasad Khanal), *Network Flow Problems in Fuzzy Environment*, International Conference on Non-Linear Analysis and Optimization, Kathmandu University, May 8-10, 2025.
7. (with Durga Prasad Khanal in cooperation with Stefan Nickel) - *Congestion Minimization under Budget Constraints and Speed Variation*. Colloquium at Karlsruhe Institute of Technology (KIT), Institute of Operations Research (IOR), Discrete Optimization and Logistics, November 12, 2024.
8. (with Sachin Wagle in cooperation with Stefan Nickel) - *Algorithms for Dynamic Multi-Commodity FlowLoc Problem*. Colloquium at Karlsruhe Institute of Technology (KIT), Institute of Operations Research (IOR), Discrete Optimization and Logistics, November 12, 2024.
9. (with Hari Nandan Nath in cooperation with Stefan Nickel) *The Quickest Flow Location Problem*. Colloquium at Karlsruhe Institute of Technology (KIT), Institute of Operations Research (IOR), Discrete Optimization and Logistics, November 12, 2024.
10. (I.M. Adhikari) Quickest Transshipment in Integrated Network Topology, In First International Electronic Conference on Algorithms (IOCA-2021), September 27-10 October 2021. **Best Paper Award**.
11. (I.M. Adhikari) Time Minimization Aspect on the Transit-based Evacuation System, 2nd Intl Conference on Emerging Trends in Mathematical Sciences and Computing (IEMSC-2021), Society for Data Science, Institute of Engineering and Management and University of Engineering and Management, Kolkata, 5-7 February. **Best Paper Award**.
12. (I.M. Adhikari) Evacuation Optimization in an Integrated Network Topology, CSMCS-2020, NIT, Calicut, India, Sept 10-12.
13. (I.M. Adhikari) Evacuation Optimization with Minimum Clearance time, First Intl Conference on Applied Mathematics in Science & Engineering (AMSE-2019), ITER, NIT, Odisha, India, October 24-26.
14. (I.M. Adhikari) Minimum Clearance Time with Earliest Arrival Pattern for Transit-based Evacuation, Intl Conference on Applications of Mathematics to Nonlinear Sciences (ANMA-2019), organized by NMS, ANMA, TU & Kathmnadu University, Pokhara, Nepal, June 27-30.
15. (I.M. Adhikari) Evacuation Planning Problems on Transit-based Networks, Modern Algebraic Geometry Conference, Silkroad Mathematics Center, China, July 23-26, 2019.

16. (I.M. Adhikari) An Insight on the Evacuation Planning Optimization Problems on Transit-based System, APORS-2018 on Operation Research and Development, August 6-9, Kathmandu.
17. (I.M. Adhikari) Some Aspects on Transit Dependent Evacuation Planning, Emergency Management Research Workshop, Optimization Models for Disaster Resilience in Nepal, organized by Lancaster University, UK and CDM-TU, September 1-2, 2017, Kathmandu.
18. (I.M. Adhikari) Transit Dependent Vehicles on Evacuation Planning, National Conference on History and Recent Trends of Mathematics (NCHRTM-17), Department of Mathematics, Balmeeki Campus, Nepal Sanskrit University, TU, KU and NMS, June 2-4, 2017.
19. (I.M. Adhikari) Transit Dependent Evacuation Planning, Workshop on Bilevel Optimization, Research Group Linkage Program of the AvH, February 28- March 7, 2017.
20. (I.M. Adhikari) Dominance Vehicle Routine in Transit Dependent Evacuation Scenario, National Conference on Mathematics and Its Applications (NCMA-17), NMS, January 11-13, 2017.
21. (I.M. Adhikari) Facility Location as A Basic Component of Evacuation Planning, Southwest-workshop, UKL, and Fraunhofer Institute for Industrial Mathematics ITWM, Germany, October 28, 2016.
22. (I.M. Adhikari) Meaningfulness of OR Models and Solution Strategies for Emergency Planning, Mathematics and Science Research Colloquium, Mindanao State University, IIT, Philippines, August 17, 2016.
23. (I.M. Adhikari) Transit Based Optimization for Evacuation Planning, International Conference on Applications of Mathematics to Nonlinear Sciences (AMNS-16), organized by NMS, ANMA, CDM-TU and KU, May 26-29, 2016, Kathmandu.
24. (S.P. Gupta and U. Pyakurel) Quickest Multi-Commodity Partial Contraflow Problem with Asymmetric Transit Times, Intl Conference on Emerging Trends in Mathematical Sciences and Computing (IEMSC-2022), KolKata, India, February 4-6. **Best paper winner.**
25. (S.P. Gupta and U. Pyakurel) An Approximate Solution for Quickest Multi-Commodity Contraflow with Non-Symmetric Travel Times, AMSE-2022, Bhubaneswar, Odisha, India, March 24-26.
26. (S.P. Gupta and U. Pyakurel) Generalized Multi-Commodity Contraflow Problem on Lossy Network, IEMSC-2021, KolKata, February 5-7.
27. (S.P. Gupta and U. Pyakurel) Dynamic Multi-commodity Contraflow Problem with Asymmetric Transit Times, Webinar on International Conference in Dynamics of Disasters (DOD-2021) at Kalamata, Greece, July 16-18.
28. (S.P. Gupta and U. Pyakurel) An FPTAS for Continuous Quickest Multi-Commodity Flow Over Time Problem with Partial Lane Reversals, RAPAM-2020, Kurseong College, Darjeeling, India, August 24-25.
29. (S.P. Gupta and U. Pyakurel) Approximation Algorithm for Quickest Multi-Commodity Partial Contraflow Problem, CSMCS-2020, NIT, Calicut, Kerala, India, September 10-12.
30. (S.P. Gupta and U. Pyakurel) Models and Algorithms for Flow Over Time Problems, Applied Mathematics in Science and Engineering, Bhubaneswar, Odisha, India, Oct 24-26, 2019.
31. (S.P. Gupta and U. Pyakurel)Flow Dependent Transit Times Dynamic Flow for Evacuation Planning, APORS-2018, Kathmandu, August 6-9.
32. (S.P. Gupta) Multi-commodity Contraflow Problem on Lossy Network with Asymmetric Transit Times, IOCA-2021, 27 September- 10 October.
33. (H.N. Nath) Quickest FlowLoc Problem, CSMCS 2020, Department of Mathematics, National Institute of Technology Calicut, India, September 10-12.
34. (H.N. Nath) A Path Saving Strategy with Arc Reversals for Evacuation Planning, International Conference on Recent Advances in Informatics, Communication, Management, Health & Applied Sciences (RAICMHAS-2019), Brainware University, Kokata, India, February 2–4.
35. (H.N. Nath) A Bilevel Programming Approach to Save a Path Maximizing the Dynamic Flow with Lane Reversals for Evacuation Planning, 4th Intl Conference on Dynamics of Disasters (DOD 2019), Kalamata, July 1–5.
36. (H.N. Nath) Network Flow Approach for Computing Optimal Sink Location in Evacuation Planning. 2nd International Conference on Advances in CDM-TU, December 23-24, 2018.
37. (H.N. Nath) Identification of Optimal Pick-Up Locations with Their Demands in Evacuation Planning of Transit-Dependent Population, NCMA-2017, Chitwan, Nepal, January 11–13, 2017.
38. (H.N. Nath) Meaningfulness of OR Models and Solution Strategies for Emergency Planning, Mathematics and Statistics Research Colloquium, Mindanao State University, IIT, Philippines, 17 August, 2016.
39. (R.C. Dhungana) Contraflow Problems with Fixed Switching Costs, The Second Intl Conference on Applications of Mathematics to Nonlinear Sciences (AMNS-2019), Pokhara, Nepal, June 27-30.

40. (R.C. Dhungana) Abstract FlowLoc Problems for Evacuation Planning, Recent Advances in Informatics, Communication, Management, Health and Applied Sciences (RAICMHAS-2019), Brainware University, Kolkata, February, 2-4.
41. (R.C. Dhungana) FlowLoc Problems in Evacuation Network, APORS-2018, August 6-9.
42. (R.C. Dhungana and U. Pyakurel) Abstract Contraflow for Evacuation Planning, Workshop for UK-Nepal Cooperation in Emergency Management Research, organized by Lancaster University, UK and CDM-TU, September 1-2, 2017, Nepal.
43. (S. Wagle) Maximum Static Multi-Commodity FlowLoc, AMSE-2024
44. (S. Wagle) Maximum FlowLoc on Two Terminal Network with intermediate Storage, AMSE-2022, Bhubansewar, India, 24-26 March.
45. (S. Wagle) Temporally Repeated Maximum Dynamic FlowLoc with Intermediate Storage, Seminar on Transportation Network for Emergency Planning and Logistic Support, CDM-TU, 28-29 May 2022.
46. (S. Wagle)Maximum FlowLoc with Excess Storage, International Online Conference on Applied Mathematics (IOCAM-2022), Fez, Morocco, June 1-3.
47. (S. Wagle) Lexicographic Flow with Intermediate Storage for Evacuation Planning, Workshop on Managing Disaster Risk: A Way to Sustainability, PMD (Program Migration and Disapora) project, NEGAAS, November 21-22, 2021.
48. (S. Wagle) Prioritized Continuous Dynamic Contraflow on Multi-terminal Network, International Webinar on Recent Advances in Pure and Applied Mathematics (RAPAM 2020), Kurseong, India, 24-25 August.
49. (B.P. Bangeni) Non-Conservative Maximum Flow via Minimum Risk Path in Uncertain Network, AMSE-2024.
50. (B.P. Bangeni) Cost Minimization Flow Model with Uncertainty in Arc Capacities, AMSE-2022, Bhubaneswar, March 24-26.
51. (B.P. Bangeni) Flow Dynamics in Continuous-time with Average Arc Capacities, IEMSC-2022, Kolkata, India, February 4-6.
52. (B.P. Bangeni) A Brief Survey on Dynamic Network Flows in Continuous-time Model, IEMSC-2021, Kolkata, February 5-7.
53. (M.C. Adhikari and U. Pyakurel) Maximum Network Flow with Intermediate Storage in Lossy Network, AMSE-2022, Center for Data Science (ITER), India, March 24-26. **Best paper winner**.
54. (M.C. Adhikari and U. Pyakurel) Intermediate Storage: A Flow Maximization Technique to the Generalized Maximum Flow Problem, Seminar on Transportation Network Optimization for Emergency Planning and Logistic Support, CDM-TU and TUFB, 28-29 May 2022.
55. (M.C. Adhikari and U. Pyakurel) Maximum Network Flows and Lexicographic Improvement, Seminar on Network Flow Models on Transportation Optimization for Emergency Planning, CDM-TU and TUFB, January 17, 2022.
56. (M.C. Adhikari and U. Pyakurel) Prioritized Evacuation with Intermediate Location Planning, Webinar on Managing Disaster Risk: A Way to Sustainability, NEGAAS- Programme Migration and Diaspora (PMD), November 21-22, 2021, Kathmandu.
57. (M.C. Adhikari) Maximum Continuous Flow with Excess Storage in Lossy Network, AMSE-2024 (**best paper award**).
58. (D.B. Amagain) Single-depot Multi-cluster VRP for Solid Waste Collection, AMSE-2024.
59. (With D. B. Amagain and U. Pyakurel)
60. Vehicle Routing and Scheduling in Emergency Logistics Support, Seminar on Transportation Network Optimization for Emergency Planning and Logistic Support, CDM-TU and TUFB, May 28,29, 2022.
61. (With D. B. Amagain and U. Pyakurel)Facility Location in Emergency Planning, AMSE-2022, Center for Data Science (ITER), India, March 24-26.
62. (With D. B. Amagain and U. Pyakurel) International Conference on Emerging Trends in Mathematical Sciences and Computing, Department of Basic Science and Humanities, Institute of Engineering and Management, Kolkota, India, February 05-07, 2021.
63. (D.P. Khanal, U. Pyakurel and others) Prioritized Maximum Dynamic Multi-commodity Flow Problem, International Conference on Dynamics of Disaster (DOD 2023), Athens Greece, July 3-6.
64. (D.P. Khanal, U. Pyakurel and others) Non-existence of Earliest Arrival Flow with Inflow-dependent Transit Times, APORS-2018, 6-9 August, Kathmandu.
65. (D.P. Khanal, U. Pyakurel and others) Approximation to Quickest Multi-commodity Contraflow Over Time with Length Bound, RAPAM 2020, August 24-25.
66. (D.P. Khanal, U. Pyakurel and others) Length Bound Approximation to Quickest Multi-commodity Contraflow Problem, CSMCS 2020, NIT, Kerala, India, September 10-12.

67. (D.P. Khanal, U. Pyakurel and others) Prioritized Multi-commodity Flow Model and Algorithm, International Symposium on Analytic Hierarchy Process (ISAHP2020), December 3-6.
68. (D.P. Khanal, U. Pyakurel and others) Efficient Algorithms for Abstract Flow with Partial Switching, DOD 2021, Athens Greece, July 16-18.
69. (D.P. Khanal, U. Pyakurel and others) Maximum Multi-commodity Flow with Proportional and Flow-Dependent Capacity Sharing, 1st Online Conference on Algorithms (IOCA2021), September 27- October 10, Germany.
70. (D.P. Khanal, U. Pyakurel and others) Multi-commodity Evacuation Planning with Intermediate Storage: A Max-Flow Problem, Universe Winter School on Optimization, Games and Markets, Chemnitz University of Technology, Germany, November 14-17, 2021.
71. (D.P. Khanal, U. Pyakurel and others) Prioritized Evacuation Planning with Multi-commodity Flow Model: A Quickest Flow Problem, Managing Disaster Risk: A Way to Sustainability, NEGAAS- Programme Migration & Diaspora (PDM), 21-22 Nov 2021.
72. (D.P. Khanal, U. Pyakurel and others) Multi-commodity Flow Transmission with Intermediate Storage by Flow-Dependent Capacity Sharing on Arcs, International Online Conference on Optimization ICOP22, Fez, Morocco, January 19-21.
73. (D.P. Khanal, U. Pyakurel and others) Route Based Evacuation in Asymmetric Contraflow Network with Flow Circulation at Destination, IOCAM-2022, Fez, Morocco, June 1-3.
74. (D.P. Khanal)Maximum Dynamic Contraflow with Intermediate Storage by Anti-Parallel Path Decomposition, AMSE-2024.
75. (B. R. Adhikari and H.N. Nath) A Multicriteria Optimization Approach for Optimizing Flow in Multiterminal Networks, AMSE-2024.
76. (G.R. Paneru and H.N. Nath) Single facility flow location modeling to minimize total cost of the flow, AMSE-2024.
77. (with U. Pyakurel) Universal Maximum Flow with Intermediate Storage for Evacuation Planning, 4th International conference on Dynamics of Disasters July 1-4, 2019, Kalamata, Greece.
78. (with U. Pyakurel) Partial Lane Reversals of Transportation Network for Evacuation Planning, APORS 2018, August 6-9, Kathmandu, Nepal.
79. (with U. Pyakurel) Efficient Algorithms for Contraflow Reconfiguration in Evacuation Planning, International Conference on Applications of Mathematics to Nonlinear Sciences (AMNS-2016), May 26-29, 2016.
80. (with U. Pyakurel) Significance of Transportation Network Models in Emergency Planning of Urban Cities, International Conference on Cities, People and Places, Colombo, Sri Lanka, October 26–28, 2015.
81. (with U. Pyakurel) Lexicographic contraflow problem for evacuation planning, 2nd International Conference on Operations Research: Applications in Developing Countries, Operations Research Society of Nepal, February 1–2, 2014.

List of Selected Publications
Prof. Dr. Tanka Nath Dhamala

1. Tanka Nath Dhamala, Durga Prasad Khanal and Stefan Nickel (2025), Budget Constrained Maximum Dynamic Flow with Speed Variation and Intermediate Storage, European journal of Operations Research (EJOR), https://doi.org/10.1016/j.ejor.2025.12.026. **Q1; impact 6, H-Index 319, SJR 2.39**.

2. Tanka Nath Dhamala, Durga Prasad Khanal, and Stephan Dempe (2025), Network Restructuring for Dynamic Flow Improvement, Annals of Operations Research, https://doi.org/10.1007/s10479-025-06496-w. 1.092. **Q1; H-Index 132**

3. Tanka Nath Dhamala, Mohan Chandra Adhikari, Durga Prasad Khanal and Urmila Pyakurel (2023), Generalized Maximum Flow over Time with Intermediate Storage, Annals of Operations Research, https://doi.org/10.1007/s10479-023-05773-w. **Q1; H-Index 118**

4. Hari Nandan Nath, Tanka Nath Dhamala and Stephan Demmpe (2023), Saving a Path Minimizing Egress Time of a Dynamic Contraflow: A Bi-Objective Programming Approach, OPSEARCH, https://doi.org/10.1007/s12597-023-00690-9. **Q2; H-Index 26**

5. Shiva Prakash Gupta, Urmila Pyakurel and Tanka Nath Dhamala (2023), Multi-Commodity Flow Problem on Lossy Network with Partial Lane Reversals, Annals of Operations Research (ANOR), DOI https://doi.org/10.1007/s10479-023-05210-y. **Q1; H-Index 118**

6. Urmila Pyakurel, Durga Prasad Khanal and Tanka Nath Dhamala (2023), Abstract Network Flow with Intermediate Storage for Evacuation Planning, European Journal of Operations Research (EJOR), 305(3), 1178-1193, doi.org/10.1016/j.ejor.2022.06.054. **Q1; H-Index 288**.

7. Urmila Pyakurel, Hari Nandan Nath and Tanka Nath Dhamala (2019), Partial Contraflow with Path Reversals for Evacuation Planning, *Annals of Operations Research* (ANOR), doi: 10.1007/s10479-018-3031-8, 283 (1-2), 591-612. **Q1; H-Index 118**

8. Urmila Pyakurel, Hari Nandan Nath and Tanka Nath Dhamala (2018), Efficient Contraflow Algorithms for Quickest Evacuation Planning, *Science China Mathematics*, 61(11), 2079-2100, doi: 10.1007/s11425-017-9264-3. **Q1; H-Index 40**

9. Urmila Pyakurel, Tanka Nath Dhamala and Stephan Dempe (2017), Efficient Continuous Contraflow Algorithms for Evacuation Planning Problems, *Annals of Operations Research*, (ANOR) 254 (1 & 2), 335-364, doi: 10.1007/s10479-017-2427-1. **Q1; H-Index 118**

10. Urmila Pyakurel and Tanka Nath Dhamala (2017), Continuous Dynamic Contraflow Approach for Evacuation Planning, *Annals of Operations Research (ANOR)*, 253(1), 1-26, doi: 10.1007/s10479-016-2302-5. **Q1; H-Index 118**

11. Micheal Andresen and Tanka Nath Dhamala (2012), New Algorithms and Complexity Status of the Reducibility Problem of Sequences in Open Shop Scheduling Minimizing the Makespan, *Annals of Operations Research (ANOR)*, 196(1), doi: 10.1007/s10479-012-1075-8. **Q1; H-Index 118**

12. Badri Prasad Pangeni and Tanka Nath Dhamala (2024), Maximum Flow in Hybrid Network with Intermediate Storage, OPSERACH, https://doi.org/10.1007/s12597-024-00816-7, **Q2; H-Index 26**.

13. Urmila Pyakurel, Hari Nandan Nath, Stephan Dempe and Tanka Nath Dhamala (2019), Efficient Dynamic Flow Algorithms for Evacuation Planning Problems with Partial Lane Reversal, *Mathematics, Special Issue - Advances and Novel Approaches in Discrete Optimization*, 7(10), 993, doi.org/10.3390/math7100993. **Q2; H-Index 55**

14. Tanka Nath Dhamala, Gyan Bahadur Thapa and Hong-Nian Yu (2012), An Efficient Frontier for Sum Deviation JIT Sequencing Problem in Mixed-Model Systems via Apportionment, *International Journal of Automation and Computing*, 9(1), 87-97, https://doi.org/10.1007/s11633-012-0620-x. **Q2; H-Index 46**

15. Badri Prasad Pangeni and Tanka Nath Dhamala (2024), Non-Conservative Maximum Flow Minimum Cost Solution in Uncertain Network, Journal of Jilin University (Engineering and Technology Edition), 43(5) 76-92, 2024, https://DOI:10.5281/zenodo.11145894, **Q2; H-Index 23**.

16. Mohan Chandra Adhikari, Tanka Nath Dhamala (2025), Generalized Maximum Flow with Excess Storage on Series Parallel Lossy Networks, Journal of the Operations Research Society of China, hina https://doi.org/10.1007/s40305-025-00602-2. **Q2; H-Index 23**.

17. Sachin Wagle, Durga Prasad Khanal, Urmila Pyakurel, Stephan Dempe, Tanka Nath Dhamala (2025), Dynamic FlowLoc with Intermediate Storage: A Temporally Repeated Approach, Operations Research Forum, vol 6, article number 6, DOI: 10.1007/s43069-024-00410-z, **Q3; H-Index 10**.

18. Durga Prasad Khanal, Shiva Prakash Gupta, Urmila Pyakurel, Tanka Nath Dhamala (2022), Inflow-dependent Quickest Multi-Commodity Flow Problems with Partial Lane Reversals, Journal of Industrial and Management Optimization (JIMO), vol 21 (5), Doi: 10.3934/jimo.2025027. **Q3; H-Index 44**.

19. Tanka Nath Dhamala, Sachin Wagle, Urmila Pyakurel (2023), FlowLoc Problem with Maximum Excess Flow, Journal of Management and Optimization (JIMO). **Q3; H-Index 36**

20. Hari Nandan Nath, Urmila Pyakurel, Tanka Nath Dhamala and Stephan Dempe (2021), Dynamic Network Flow Location Models and Algorithms for Quickest Evacuation Planning, *Journal of Industrial and Management Optimization (JIMO)*, 17(5) : 2943-2970 doi: 10.3934/jimo.2020102. **Q3; H-Index 36**

21. Urmila Pyakurel and Tanka Nath Dhamala (2017), Evacuation Planning by Earliest Arrival Contraflow, *Journal of Industrial and Management Optimization (JIMO)*, AIMS Journals, 13(1), 489-503, doi: 10.3934/jimo.2016028. **Q3; H-Index 36**

22. Hari Nandan Nath, Stephan Dempe and Tanka Nath Dhamala (2021), A Bicriteria Approach for Saving a Path Maximizing Dynamic Contraflow, *Asian Pacific Journal of Operational Research (APJOR)*, https://doi.org/10.1142/S0217595921500275. **Q3; H-Index 36**

List of All Publications
Prof. Dr. Tanka Nath Dhamala

- Books/Chapters/Sections

1. *Shop Scheduling Solution Spaces with Algebraic Characterizations* (2002), Shaker Verlag, Aachen, Germany, ISBN 3-8322-0291-9.
2. Durga Prasad Khanal, Urmila Pyakurel, Tanka Nath Dhamala, Stephan Dempe, Ingo Schiermeyer (2024), *Prioritized Maximum Dynamic Multi-Commodity Flow Problem*, Print ISBN 978-3-031-74005-3, Online ISBN 978-3-031-74006-0, Book Chapter in Dynamics of Disasters, Editors: Ilias S. Kotsireas, Anna Nagurney, Panos M. Pardalos, Stefan Wolfgang Pickl, Chrysafis Vogiatzis, Publishers Springer Nature.
3. Editors: S.R. Mishra, T.N. Dhamala, O.D. Makinde (2019), *Recent Trends in Applied Mathematics - Select Proceedings of AMSE 2019*, Publisher: Springer Nature Singapore, Pte Ltd. Singapore. DOI: https://doi.org/10.1007/978-981-15-9817-3; ISBN 978-981-15-9816-6
4. Tanka Nath Dhamala, Iswarmani Adhikari, Hari Nandahn Nath and Urmila Pyakurel (2018), *Meaningfulness of OR Models and Solution Strategies for Emergency Planning*, Book Chapter: Living with the Threat of Earthquakes, 175-194, Springer Natural Hazards, ISSN 2365-0656, 2365-0664; ISBN 978-3-319-68043-9, 978-3-319-68044-6 (eBook).
5. Badri Prasad Bangeni and Tanka Nath Dhamala (2023), Flow Dynamics in Continuous-time with Average Arc Capacities, Book Editor(s): Sharmistha Ghosh, M. Niranjanamurthy, Krishanu Deyasi, Biswadip Basu Mallik, Santanu Das Scrivener Publishing, doi.org/10.1002/9781119896715.ch22.
6. Shiva Prakash Gupta, Urmila Pyakuel and Tanka Nath Dhamala (2023), Quickest Multi-Commodity Partial Contraflow Problem with Asymmetric Transit Times, Book Editor(s): Sharmistha Ghosh, M. Niranjanamurthy, Krishanu Deyasi, Biswadip Basu Mallik, Santanu Das, Scrivener Publishing, doi.org/10.1002/9781119896715.ch16.

- Articles Published in Refereed Journals

1. Tanka Nath Dhamala, Durga Prasad Khanal and Stefan Nickel (2025), Budget Constrained Maximum Dynamic Flow with Speed Variation and Intermediate Storage, European journal of Operations Research (EJOR), https://doi.org/10.1016/j.ejor.2025.12.026. **Q1; impact 6, H-Index 319, SJR 2.39**.
2. Dipak Babu Amgain, Durga Prasad Khanal and Tanka Nath Dhamala (2026), Temporally repeated fuzzy maximum dynamic flow with intermediate storage, International Journal of Engineering and Applied Sciences (IJASE), 23(1).
3. Durga Prasad Khanal, Shiva Prakash Gupta, Urmila Pyakurel, Tanka Nath Dhamala (2025), Quickest Multi-commodity Flow Problem with Capacity Sharing, GANIT J. Bangladesh Math. Soc. 45.2 https://doi.org/10.3329/ganit.v45i2.86700, **MathSciNet, Ebsco, CrossRef**.
4. Badri Prasad Pangeni, Tanka Nath Dhamala (2025), Non-conservative maximum flow via minimum risk path in an uncertain network, Journal of Information and Optimization Sciences (accepted).
5. Bishwa Raj Adhikari, Hari Nandan Nath, Tanka Nath Dhamala (2025), A multicriteria optimization approach for maximizing flow in multiterminal networks, Journal of Information and Optimization Sciences (accepted).
6. Ramtapasya Kumar Sah, Tanka Nath Dhamala (2025), Automatic Operating Room Scheduling to Reduce Surgical Delays, Nepali Mathematical Sciences Report, 42(2), DOI: https://doi.org/10.3126/nmsr.v42i2.88557. **zbMATH, Mathematical Reviews/MathSciNet, NepJOL**.
7. Mohan Chandra Adhikari, Tanka Nath Dhamala (2025), Generalized Maximum Flow with Excess Storage on Series Parallel Lossy Networks, Journal of the Operations Research Society of China, https://doi.org/10.1007/s40305-025-00602-2. **Q2; impact: 1.2, H-Index 23, SJR 0.382**.
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