

Name : **Dr. Rinky Dwivedi**
Designation : **Professor**
Qualifications : **Ph.D (Delhi Technological University),
M.E. (Delhi College of Engineering),
B.Tech(G.G.S.I.P. University)**
Phone : **9958433922**
Email : **rinkydwivedi@msit.in**
Area of Interest/Specialization: **Method Engineering, Machine
Learning, IoT and Blockchain**



Experience : **18 years 6months**

Key Publications

SCI/ESCI and Scopus indexed Journals

1. Gupta, Koyel Datta, Dwivedi, Rinky and Sharma, Deepak Kumar. "Predicting and monitoring COVID-19 epidemic trends in India using sequence-to-sequence model and an adaptive SEIR model" *Open Computer Science*, vol. 12, no. 1, 2022, pp. 27-36. <https://doi.org/10.1515/comp-2020-0221>
2. Chaudhary N., Thakur H.K. and Dwivedi R. Dynamic Visualization and Analysis of Government Responses-A Support System to Control Pandemic Situations *International Journal of Computing and Digital Systems* 2021 ISSN (2210-142X) forthcoming article
3. S. Banyal, **R. Dwivedi**, K.D. Gupta, D.K. Sharma, F.A.Turjman and L. Mostarda, "Technology Landscape for Epidemiological Prediction and Diagnosis of COVID-19," *Computers, Materials & Continua*, Vol.67, No.2, pp.1679-1696,2021.
4. K. D. Gupta, **R. Dwivedi** and D. K. Sharma, "Prediction of Covid-19 trends in Europe using generalized regression neural network optimized by flower pollination algorithm," *Journal of Interdisciplinary Mathematics*, Vol. 24, No. 1, pp. 33-51, 2021.

5. Koyel Datta Gupta, A. Q. Ansari, P.C. Saxena and **R. Dwivedi** “Optimizing channel allocation in WiMAX MIMO model using fuzzy game theory,” *Journal of Information and Optimization Sciences*, vol. 41 no. 7 <https://doi.org/10.1080/02522667.2020.1799510>. August, 2020.
6. **Dwivedi, R.** and Gupta, D. (2015). The Agile Method Engineering: Applying fuzzy logic for evaluating and configuring agile methods in practice. *In International Journal of Computer Aided and Engineering Technology*. H-index 2, SJR 0.11. ISSN-1757-2657.
7. **Dwivedi, R.** and Gupta, D. (2015). Applying machine learning for configuring agile methods. *In International Journal of Software Engineering and its Application*, 9(3), 29-40. H-index 5, SJR 0.25. ISSN-1738-9984.
8. Gupta, D. and **Dwivedi, R.** (2015). A frame work to support evaluation of project-in-hand and selection of software development method. *In Journal of Applied and Theoretical Information Technology*, 73(1), 137-148. H-index 7, SJR 0.19 ISSN-1992-8645.

Other Refereed Journals

1. **Dwivedi, R.** and Gupta, D. (2015). A Complete method configuration process for configuring project-specific methods. *In Journal of Software*, 9(3), 29-40. H-index 15, SJR 0.49. ISSN 1796-217X.
2. Gupta D. and **Dwivedi R.** (2012) Method Configuration from Situational Method Engineering. *In ACM SIGSOFT* 37(3), 1-11. **ISSN-0163-5948**.
3. **Dwivedi R.** Flame and Smoke detection in surveillance videos. *In International journal of Innovative science, engineering and technology*, 2019, ISSN 2348 – 7968 Vol. 6, 11.
4. Gupta, D. and **Dwivedi, R.** A step towards Method Configuration from Situational Method Engineering. *Software Engineering International Journal* 2012 ISSN-2249-9342. 2(1), 51-59.

Papers Presented in International Conferences

1. **Rinky Dwivedi** A wearable sensor-based customized menstrual cycle predictor International conference of innovations and ideas towards patents (ICIIP-2021),30th October 2021.
2. **Rinky Dwivedi** Survey of smart phone contact-tracking apps architecture, ICICC 2021, 20-21st February 2021.
3. **Rinky Dwivedi** Optimizing channel allocation in WiMAX MIMO model using fuzzy game theory In 3rd International Conference on Computing Informatics & Networks 2020.

4. **Rinky Dwivedi** Community based protocol for opportunistic networks In 3rd International Conference on Innovative Computing and Communication, Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi,.Springer and indexed in Springer digital library, 2020.
5. **Rinky Dwivedi** Edge detection using BAT algorithm. *In proceedings of 3rd International conference on computing for sustainable global development. INDIACOM-2016, published by IEEE and indexed in IEEE explore. ISSN 0973-7529; ISBN 978-93-80544-20-5, 16th – 18th March, 2016, BVICAM, INDIA.*
6. **Rinky Dwivedi** Empowering agile method-Feature Driven Development by extending it in RUP shell. International conference on computer communication and computational sciences, Published by Springer, IC4S 2016.

Papers in International Conferences

1. Gupta D and **Dwivedi, R.** (2016). Configurable Method Model Of Agile Methods - For Creating Project-Specific Methods. (2016). *In Proceedings of the International Conference on Software Engineering Research*, ISBN: 1-60132-446-4, CSREA Press, 86-91, 25th -28th July, 2016, Las Vegas, USA.
2. **Dwivedi, R.**, Kaur, J., Rishi, D., Dawra, D. and Nandal, M. (2014). Implementing and Analysing Fuzzy Controller with ACO on Travelling Salesman Problem. In *Proc. of Int. Conf. on Advances in Communication, Network, and Computing, CNC*, pp. 447-455, 978-81-910691-7-8, Elsevier Track, 21st- 22nd February, Chennai, INDIA.
3. **Dwivedi, R** and Gupta D. (2014). Customizing Agile Methods using Genetic Algorithms. In *Proc. of Int. Conf. on Advances in Communication, Network, and Computing, CNC*, pp. 730-736, 978-81-910691-7-8, Elsevier Track, 21st- 22nd February, Chennai, INDIA.
4. Gupta, D., **Dwivedi, R.** and Kumar, S. (2012). Domain specific priority-based implementation of mobile services- an agile way. *In proceedings of International Conference on Software Engineering Research and Practice 2012*, ISBN: 1-60132-231-3, page no. 360-364, CSREA Press, Las Vegas, USA.

5. Gupta D. and **Dwivedi R.** (2008). *Multicasting approach in mobile Ad-hoc networks and its Performance analysis*. In proceedings of 4th International Conference on Wireless Communications, Networking and Mobile Computing, WiCOM-2008, 978-1-4244-2108-4/08, 1-4, 19th – 21st September, Dalian, China.

Book (s) Authored:

1. Multicasting approach for Mobile Ad-hoc networks by Rinky Dwivedi, published on 15th January, 2016, ISSN no. 978-3-659-80010-8 , LAP publishers, Germany.
2. Methods and Method Engineering by Rinky Dwivedi, published on June, 2016, ISSN no. 978-3-659-82808-9 , LAP publishers, Germany.
3. R. Dwivedi, K.D. Gupta, Green Computing in Network Security: Energy Efficient Solutions for Business and Home. Taylor & Francis. ISBN: 978-0367-56292-2.

Awards and Recognitions

1. Received Letter of Appreciation from Hon'ble President SMES on 2016 for rendering excellent services for the academic growth of the Institute.
2. AICTE certified Mentor for inductee teachers.
3. Editor "Green Computing in Network Security: Energy Efficient Solutions for Business and Home." Taylor & Francis. ISBN: 9780367562922.

Patent/Copyright

1. Dr. Robin Singh Bhadoria, Dr. Tripti Sharma, Mr. Akshat Goyal, Dr. Rinky Dwivedi, Dr. Koyel Datta Gupta, Dr. Rekha Tripathi, Dr. Archana Balyan, Dr. Meena Rao, "Method for Authenticating and Validating Quick Response Code," Patent No. 202121010704 A, Date of filing: 14-3-2021, Date of Publishing: 9-4-2021.
2. Dr. Gaurav Dubey, Dr. Pooja Malik, Dr. Charu Agarwal, Anurag Mishra, Dr. Deepak Kumar Sharma, Dr. Koyel Datta Gupta, Dr. Rinky Dwivedi, "Sensor Based Electronic Device," Patent No. 202111019223 A, Date of filing: 27/04/2021, Date of Publishing: 30/04/2021.
3. Dr. Koyel Datta Gupta, Dr. Rinky Dwivedi, Dr. Deepak Kumar Sharma, Dr. Tripti Sharma, Dr. Alka Singhal, "A Wearable Sensor Based Customized Menstrual Cycle Predictor," Patent No. 202111043930 A, Date of filing: 28-09-2021, Date of Publication: 15-10-2021.

Book Chapter/Books published

1. **Dwivedi R.** and Rohilla V., “Empowering agile method-Feature Driven Development by extending it in RUP shell”, In International conference on computer communication and computational sciences, IC4S, published by Springer in Advances in computer and computational sciences, DOI: 10.1007/978-981-10-3770-2, Vol.1 pp 729-739.
2. **R. Dwivedi**, K.D. Gupta, D. Sharma, Security and Surveillance at Smart Homes in a Smart City Through Internet of Things, Springer, 2021. ISBN: 978-3-030-52624-5.
3. **R. Dwivedi**, K.D. Gupta, Green Computing in Network Security: Energy Efficient Solutions for Business and Home. Taylor & Francis. ISBN: 978-0367-56292-2.

Ph.D Supervised - Completed

Ms. Neelu Choudhary, *Mining and analysis of evolving patterns in dynamic graphs*, Manav Rachna International University.

Memberships of Professional bodies **ISTE Member**

Other Contributions:

1. HOD–CSE Department (August 2020 –till date)
2. Website In charge (August 2021- till date)
3. Internet In-charge (April 2017-2019)
4. Technical Core committee member International Conference organized in MSIT ICAIA 2020.
5. MSIT Newsletter Reflections, Convener from 2019-21
6. Editor-In-Chief Satyam Journal, 2017-18
7. Convener Annual Tech-Fest 2018
8. ISO auditor
9. Other duties handled: Project Coordinator, Internet Incharge, Mentor, Proctor, Sports and cultural activities, FDP coordinator.
10. Participated in the International Conference on Innovative Computing and Communication (ICICC-2020), as Session **chair** held on 21-23 Feb 2020.
11. Participated in the International Conference on Artificial Intelligence and Applications 2020(ICAIA) as Session **chair** held on, 6-7 Feb 2020.
12. Got teaching assistantship during PH. D from Delhi Technological University

13. Reviewer of various international conference.