Dr. Ratneshwer
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Achievements

1. Awarded **National Doctoral Fellowship** by All India Council for Technical Education, Government of India, New Delhi.
2. Awarded **Junior Research Fellowship** and qualified **National Eligibility Test for Lectureship**, in Computer Science and Application, by University Grant Commission, New Delhi, India.

Research Area

Thesis Title: Some Observations on Software Processes, Interdependencies and Composability under CBSE
Supervisor: Dr A. K. Tripathi

List of Research Scholars

S.No.	Name of the Student	Topic of Research	Date of enrollment
1.	Pawan Kumar	Dependency Analysis of Service Oriented Systems	Thesis Submitted
2.	Ms. Vandana Kushwaha	Congestion Analysis in High Speed Networks	Thesis Submitted
3.	Mr. Haribansh Mishra	Congestion Control in Wireless Networks	March 2015
4.	Mr. Guru Prasad Bhandari	Fault Analysis of SOA based Systems	March 2015

Publications

Monograph

Ratneshwer, A K Tripathi, "Component Based Software Engineering: Dependency and Software Process Issues", Lambert Academic Publishing, ISBN-10:3843386803, Edition: Paperback 01/2011.

Book Chapter

Ratneshwer, "A Software Component Generation Model for Pervasive Computing Environment", in Strategic Pervasive Computing Applications: Emerging Trends, Varuna Godara (Ed), pp. 67-85, IGI Global Publication, 2010.

In International/National Journals

1. Vandana Kushwaha, Ratneshwer, "Interaction of High Speed TCPs with recent AQMs through Experimental Evaluation", International Journal of Computer Network and Information Security(IJCNIS)- **Accepted**.

2. Vandana Kushwaha, Ratneshwer, "Ranking of Source Based Congestion Control Approaches for High-Speed Networks Using AHP", International Journal of Communication Networks and Distributed Systems-**Accepted**.
3. Pawan Kumar, Ratneshwer, "Architecture Level Dependency Analysis of SOA Based System Through Π-ADL", accepted for publication in International Journal of Software Engineering.
4. Ratneshwer, Pawan Kumar, "Dependency analysis of a SOA-based system through Petri nets and service algebra", International Journal of Software Engineering, Technology and Applications (Inderscience Publishers), Volume 1, Number 2, 2015.
5. Pawan Kumar, Ratneshwer, "Dependency Modeling of a SOA based System through Colored Petri Nets", Journal of Computing and Information Technology - Accepted for publication.
6. Pawan Kumar, Ratneshwer, "Some Observations on Dependency Analysis of SOA Based Systems", International Journal of Information Technology and Computer Science – Volume 8, Number 1, 2016, pp. 54-66.
7. Vandana Kushwaha, Ratneshwer, "Congestion control for high-speed wired network: A systematic literature review", Journal of Network and Computer Applications. Volume 45, 2014, pp. 62-78. **(Impact Factor: 2.23)** (**Science Citation Index**).
8. Ratneshwer, Guru Prasad Bhandari; Kul Bahadur Chhetri, "Design and development of dependency analysis tool (DA-OOP) for an object oriented programme", International Journal of Software Engineering, Technology and Applications , Vol.1, No.1,2015, pp.102 – 117.
9. Vandana Kushwaha, Ratneshwer, "A Review of Router based Congestion Control Algorithms", International Journal of Computer Network and Information Security, vol.6, no.1, pp.1-10, 2014.
10. Vandana Kushwaha, Ratneshwer, "A Review of End-to-end Congestion Control Algorithms for High-speed Wired Network", International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 9, September - 2013.
11. Ratneshwer, A K Tripathi, "A Knowledge Identification Framework for Component Based Dependency Analysis Process", International Journal of Software Engineering and Its Applications, Volume 7, Issue 5, 2013, pp. 309-324.
12. Ratneshwer, "Control dependence Analysis of Software Components", Journal of Computing, Computer Society of India, Volume 1, Number 2, 2013.
13. Ratneshwer, A K Tripathi, "IMM-CBSE: An Integrated Maturity Model for CBSE", International Journal of Computer Applications in Technology, Vol. 46, No. 4, 2013.
14. Ratneshwer and A K Tripathi, "Dependence Analysis of Component Based Software through Assumptions", International Journal of Computer Science Issues, Volume 8, Issue 4, 2011, pp.49-60.
15. Ratneshwer and A K Tripathi, "Some Component Generation Approaches for E-Governance Systems", International Journal of Public Information Systems, Volume 2010:2, pages. 113-147, 2010.
16. Ratneshwer and A K Tripathi, "Dependence Analysis of Software Component", ACM SIGSOFT Software Engineering Notes, volume 35, number 4, July 2010.
17. Ratneshwer, "An Approach towards Composability Enhancement", International Journal of Computer Applications, Volume 1, Number 3, Article 19, 2010.
18. Ratneshwer and A K Tripathi, "Interdependence Analysis in Component Based Software", Journal of Information Science and Technology", volume 6, issue 2, 2009.
19. Manjari Gupta, Ratneshwer and A K Tripathi, "An Exploratory Case Study in Designing and Implementing Tight versus Loose Frameworks", Journal of Software Engineering and Applications, Scientific Research Publishing, Inc. USA, volume 2, issue 3, 2009.
20. A. K. Tripathi, Ratneshwer and Manjari Gupta, "Some Observations on Software Processes for CBSE", in Journal of Software: Evolution and Process*:, Volume 13, Issue 5, September 2008, pages 411-419* ***(Impact Factor: 0.624)(*** **Science Citation Index Expanded*)* .**
21. A. K. Tripathi and Ratneshwer, "Some Observations on Interdependencies in Component Based Software", International Journal of Software Engineering, Vol. 1, No. 2, pp. 49-80. July 2008.
22. A. K. Tripathi, Ratneshwer and Manjari Gupta, "Need to Redefine the Testing Process for Component Based Software", International Journal of Information and Computing Science, Volume 10, Number 1, June 2007, pp. 52-63.

In International/National conferences

1. Tripathi, A. , Gupta, R. (2014). 'Some Pertinent Issues and Considerations on CBSE'. World Academy of Science, Engineering and Technology, International Science Index, Computer and Information Engineering, 2(9), 787.
2. Pawan Kumar,Ratneshwer, "A Review on Dependency Analysis of SOA based System", 2014 Fifth International Conference on Recent Trends in Information, Telecommunication and Computing, (IEEE Explore), 21-22 March, Chandigrah, pp. 69-81.
3. Vandana Kushwaha, Ratneshwer, "An Analysis of Performance Parameters for Congestion Control in High-speed Wired Network", In proceedings of ICCCT 2013 (IEEE Explore), MNNIT Allahabad.
4. Ratneshwer, A K Tripathi, "A Use Case Based Effort Estimation for CBSE", National Conference on Artificial Intelligence and Agents: Theory and Applications, Organized by Department of Computer Engineering, IT-BHU, Varanasi on dated 9-11 December 2011.
5. Ratneshwer, Vivek Srivastava, "Some Reusable Artifacts Generation Approaches for MNREGA Systems", National Conference on "The role of IT in National Rural Employment Guarantee Act (NREGA)", Organized by Tata Institute of Social Sciences and Computer Society of India, 21-22 April 2011.
6. Ratneshwer, Divya Gupta, "An Approach towards Component Based Software Measurement", INDIACom 2011, 5th national Conference on Computing for Nation Development, March 10-11, 2011, New Delhi, India.
7. Ratneshwer, A K Tripathi, "Towards Modeling Component's Dependencies", 1st India Workshop on Advances in Model based Software Engineering (WAMBSE 2010) co-located at 3rd ISEC2010, Mysuru, 25 -27, February 2010.
8. A. K. Tripathi, Ratneshwer, "Some Observations on a Maturity Model for CBSE," ICECCS, pp.273-281, 2009 14th IEEE International Conference on Engineering of Complex Computer Systems, 2009, Potsdam, Germany.
9. Ratneshwer, "A Maturity Model for CBSE", In Proceedings of 2nd India Software Engineering Conference, Poster Presentation, Pune, India on dated 23-27 Feb 2009.
10. Ratneshwer and Manjari Gupta, "Component Based Health Care Software Systems for Rural Areas", paper published in a book People's Empowerment and Sustainable Rural Development: A Technological Approach, ISBN 81-316-0126-9, Rawat Publications, 2009.
11. Ratneshwer, "A Software Component Generation Model", In Proceedings of International Congress on Pervasive Computing and Management, New Delhi, India on dated Dec 12-14, 2008.
12. Ratneshwer and Rajeev Srivastava, "*Component Based Software Engineering for E-Goverance Systems*", In Proceedings of the *National Conference on "Methods and Models in Computing(NCM2C-07)"*, organized by School of Computer and System Sciences, Jawaharlal Nehru University, New Delhi on dated December 13-14, 2007, pp. 33-40.
13. Ratneshwer, "Some Observations on Composability", In Proceedings of International Conference on Information & Communication Technology (IICT -2007), DIT Dehradoon , India (UA), PP. 963-65.
14. Ratneshwer, "Reverse Engineering for Components Creations", In Proceedings of National Conference of Emerging Technologies and Trends in IT 2007, India Habitat center, New Delhi, 7-8 April 2007, pp. 135-139.
15. Ratneshwer, "An Comparative Analysis of Testing and Maintenance Processes for Component Based Software" In Proceedings of 'International conference on Research in Management and Technology' organized by Gian Jyoti Institute of Management & Technology (GJ-IMT) Phase-2, Sector: 54, Mohali, Chandigarh, India-160055, 14-15 March 2007.
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Computing', organized by School of Computer and System Sciences, Jawaharlal Nehru University, New Delhi, on the dates 18-19 Dec 2006, pp. 19-25.