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Educational Qualification: M.C.A., SLET Qualified, Ph.D.

Specialization: Regression Testing, Test Case Prioritization, Optimization Algorithms

Teaching Experience: 14 Years
Institutions Served: G.D.C., Karsog, Mandi (H.P.) (March 2023- till date), R.K.M.V., Shimla (Oct 2018-March 2023), St. Bede's College, Shimla (June 2008- Oct 2018), Guest Lecturer H.P.U.(ICDEOL) (2014-2017)

Additional Charge: Member IQAC

Detail of research publications:

1. Comparative Analysis of Efficacious Metaheuristic Technique with Genetically Modified- Flower Pollination Algorithm (GM-FPA) for Test Case Prioritization in Regression Testing. International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653
2. Validating Switch Variable of Flower Pollination Algorithm in Regression Test Case Prioritization. International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211
3. Software Test Case Prioritization Using Genetically Modified Flower Pollination Algorithm (GM-FPA). International Journal of Scientific & Technology Research (IJSTR). December 2019, 8:11, Page No. 298-306 Online ISSN 2277-8616.
4. Cuckoo Search Algorithm for Test Case Prioritization in Regression Testing. International Journal of Recent Technology and Engineering (IJRTE). September 2019, 8:3, Online ISSN:2277- 3878.
5. Flower Pollination Algorithm for Test Case Prioritization in Regression Testing. In: Fong, S., Dey, N., Joshi, A. (eds) ICT Analysis and Applications. Lecture Notes in Networks and Systems, vol 93. Springer, Singapore. (Book), Chapter 16. Springer Nature, Singapore. ISBN : 978-981-15-0629
6. Identification of Attributes for Test Case Reusability in Regression Test Selection Techniques. 31 October, 2016. IEEE Xplore.
7. Open Source Code Coverage Tools for Java: A Comparative Analysis. Indian Journal of Science and Technology. August 2016, 9:32, ISSN:0974-6846 E-ISSN:0974-5645.
8. Prevalent Criteria in Regression Test Case Selection Techniques: An Exploratory Study. 14 January, 2016. IEEE Xplore.
9. Presented a paper entitled "An Algorithm for Optimal Test Case Selection for Specification Based Regression Testing" in 9th national conference on smarter approaches in computing technologies & applications (SACTA-2014) organized by department of I.T., Institute Technology Science, Mohan Nagar, Ghaziabad on 19th April, 2014. In association with CSI- Ghaziabad Chapter. ISBN 978-81-928-3802-1.
10. Exploratory Study for Regression Test Selection Techniques in Procedural and Object-Oriented Programming Paradigm. International Journal of Engineering and Computer Science. 28 March, 2014, 3:3, Page No. 5078-5082 Online ISSN-2319-7242.
11. Presented a paper entitled "Automated Regression Testing of Web Based Applications using Selenium" in the National Seminar on Web Based Technologies: Present & The Future held at St. Bede's College, Shimla on April 30 – May 1, 2015. ISBN:978-81-926194-9-1
12. Presented a paper entitled "The Future of Sovereignty" in the international conference on Women

Empowerment: Transforming Lives, Milestones; Challenges held at St. Bede's College, Shimla on 23rd - 24th August, 2013.

13. Aforethought Obfuscation in Data Network: Economics of Malware. International Journal on Advanced Computer Theory and Engineering (IJACTE). ISSN (Print): 2319 - 2526, Volume-2, Issue -6, 2013. Page No. 97-101

14. "2012 The Year of Skimmers" An Overview of ATM Cards Skimming. International Journal on Advanced Computer Theory and Engineering (IJACTE) ISSN (Print): 2319 – 2526, Volume-1, Issue-2, 2012 Page No. 161-166.

Training programmes:

1. "Faculty in Universities/Colleges/Institutes of Higher Education" 4-Week Induction/Orientation Programme Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of MINISTRY OF EDUCATION 20 April – 19 May, 2022 Online

2. Research Methodology (FDP) St. Bede's College, Shimla 23 rd April 2015 Offline

3. Faculty Development Programme St. Bede's College, Shimla 27 th and 28 th August 2015 Offline