

Mrs. Harpreet Kaur

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Mobile# 98140-08879 (Punjab)

CURRENT EMPLOYER (FROM NOV-2009 TO TILL DATE)

- **Organization Name** : University College of Engineering (UCOE),Punjabi University, Patiala, INDIA (Punjab)
- **Designation**: Assistant Professor (Comp Engg. Deptt.)
- **Location** : C-1, Punjabi University Campus, Patiala, Punjab
- **Status**: : Married
- **Web Site** : www.punjabiuniversity.ac.in

Degree: Pursuing PhD **Year**: Started in year 2014

Institute: Computer Engineering department, Punjabi University, Patiala, (Punjab) (India)

University Board: Punjabi University, Patiala (India)

AREA OF INTEREST

- Software Engineering (SE)
- Software Designing & Construction (UML)
- Software Testing
- Parallel Computing
- Compiler Design
- Data Structures

REASERCH PAPERS PRESENTED OR PUBLISHED

National Conference

1. Kaur Harpreet, Kaur Navjot " Software Engineering and Knowledge Engineering Issues in Bioinformatics" **proceeding of National Conference on Bioinformatics (NCBC '05)** at Thapar Institute of Engg. And Technology, Punjab, India.
2. Kaur Harpreet, Kaur Navjot "Algorithmic and Non-Algorithmic issues in Database **Access to Bioinformatics" in National Conference on Bioinformatics (NCBC '05)** at Thapar Institute of Engg. And Technology.
3. Kaur Harpreet, Singh Pardeep " **Parallel Processing in Mobile Computing" in National Conference on "INNOVATION 2007" at B.B.S.B.E.C, Fatehgarh Sahib page 147-151**
4. Kaur Harpreet, Singh Pardeep" Just in Time Teaching" ISTE Section Annual Convention(SAC 07), Nov 18-19,2007 at NIT Hamirpur
5. Kaur Harpreet, Singh Pardeep" Model Driven Architecture and CASE" Advancements in Computer Engg (**ACE'08**), April 3-4,2008 at B.B.S.B.E.C, Fatehgarh Sahib, pp 82-84

6. **Kaur Rupinder, Kaur Prabhjot, Kaur Harpreet, “Nicad Automated Detection of Near-miss clones”, Challenges in Emerging Computing Technologies, May 16-17, 2012, Rayat and Bahra Institute of Engg. & Bio-Technology**
7. **Kaur Rupinder, Kaur Prabhjot, Kaur Harpreet, “JplaG : Token Based Technique in Plagiarism Detection”, 7th National Conference on Innovative Developments in Engineering Applications at Bhai Gurdas Institute of Engg. & Tech., Sangrur, 13-14 April 2012**
8. **Jasmine Kuar, Harpreet Kaur, “Developments in the Technique of Metamorphic Testing: A Review of Studies” , National conference on Advancements in Electrical and Electronics Communication Engineering (AEECE-2015), Feb 20-21, 2015, pp 5-9**

International Conference

1. **Kaur Harpreet, Singh Amandeep, Singh Pardeep “Comparison of Variants of BLAST” The 2008 IAENG International Conference on Bioinformatics(IMECS 2008) , Hong-Kong, March 19-21,pp- 190**
2. **Prabhjot Kaur, Rupinder Kaur, Harpreet Kaur, “ConQat: A Tool to Detect gapped and un-gapped clones”, International Conference on Advanced Computing Technologies at Gurukul Vidyapeeth Institute of Engineering and Technology,Banur, Patiala,(8-9) june, 2012**
3. **Kaur Rupinder, Kaur Harpreet, Kaur Prabhjot, “PMD-Copy/Paste Detector:Token-Based Plagiarism Detection Tool”, International Conference on Advanced Computing Technologies at Gurukul Vidyapeeth Institute of Engineering and Technology,Banur, Patiala,(8-9) june, 2012**
4. **Kaur Balwinder, Kaur Harpreet, “A review of Clone Detection in UML Diagrams”, International Conference on innovative research in “Mechanical, Electrical, Electronics, Civil, Computer Sceince and information Technology (MECIT-2015)” organized by “Krishi Sanskriti” at Jawaharlal Nehru University, New Delhi, 16-17 may, 2015**
5. **Jasmine Kuar, Harpreet Kaur, “Metamorphic Testing as a testing technique and an Automated Debugging Tool”, Innovative Research in “Mechanical, Electrical, Electronics, Civil, Computer Science and Information Technology (MECIT-2015)”, organized by “Krishi Sanskriti” , 16-17 may 2015, pp 37-40**
6. **Kaur H, Maini R. Identification of Recurring Patterns of Code to Detect Structural Clones. In Advanced Computing (IACC), 2016 IEEE 6th International Conference on 2016 Feb 27 (pp. 398-403). IEEE.**
7. **Kaur, Gagandeep, and Er Harpreet Kaur. "Prediction of the cause of accident and accident prone location on roads using data mining techniques." 2017 8th International Conference on Computing, Communication and Networking Technologies (ICCCNT). IEEE, 2017.**
8. **Rani, Ekta, and Harpreet Kaur. "Study on fundamental usage of CloudSim simulator and algorithms of resource allocation in cloud computing." 2017 8th International Conference on Computing, Communication and Networking Technologies (ICCCNT). IEEE, 2017.**

International Journals

1. **Rupinder Kaur, Harpreet Kaur , Prabhjot Kaur , “Evaluation of token based tools on the basis of clone metrics”, International Journal of Advanced Research in Computer Science and Electronics Engineering, Volume 1, Issue 3, May 2012, ISSN: 2277 – 9043**
2. **Prabhjot Kaur*, Harpreet Kaur, Rupinder Kaur, “ Comparison of Clone Detection Tools: CONQAT and SolidSDD”, International Journal of Advanced Research in Computer**

3. **Anshu Rani and Harpreet Kaur, “ Refactoring Methods and Tools”, International Journal of Advanced Research in Computer Science and Software Engineering , Volume 2, Issue 12, December 2012, ISSN: 2277 128X**
4. **Isha Malik, Harpreet Kaur, “ USE OF AUTOMATED TOOLS IN REVERSE ENGINEERING’, International Journal of Advanced and innovative research, Published in IJAIR, Volume 2, Issue 3 March 2013, ISSN: 2278-7844**
5. **Isha Malik, Harpreet Kaur,” To Measure the Complexity and Enhance the Performance of UML Class Diagram Combining Reverse Engineering and Refactoring”, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 3, Issue 8, August 2013, ISSN: 2277 128X**
6. **Sherry Singla, Harpreet Kaur, “ Selenium Keyword Driven Automation Testing Framework”, International journal of advanced research in Computer Science and Software engineering, Volume 4, Issue 6, June 2014**
7. **Pamilpreet Singh, Harpreet Kaur, “Detection of Clones form UML diagrams (Unified Modeling Language)”, International; journal for Scientific Research & Development / Vol 2, Issue 05, 2014/ISSN : 2321-0613**
8. **Kaur Balwinder, Kaur Harpreet, “”Clone Detection in UML diagrams using token based approach”, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 5, Issue5, June 2015, ISSN: (online-2277 128X) (print: 2277 6451)**
9. Rani, Ekta, and Harpreet Kaur. "Efficient Load Balancing Task Scheduling in Cloud Computing using Raven Roosting Optimization Algorithm." *International Journal of Advanced Research in Computer Science* 8.5 (2017).
10. Kaur, Gagandeep, and Harpreet Kaur. "Black Spot and Accidental Attributes Identification on State Highways and Ordinary District Roads Using Data Mining Techniques." *International Journal of Advance Research in Computer Science* 8.5 (2017).

RESEARCH GUIDANCE

| Sr. No. | Session | Thesis Entitled |
|---------|-----------|--|
| 1 | May 2012 | Evaluation of clone detection tools on the basis of clone metrics |
| 2 | May 2012 | Evaluation and analysis of clone detection tools:ConQat, SolidSDD and DupScout |
| 3 | June 2013 | To measure the complexity and enhance the performance of UML class diagram combining reverse engineering and refactoring |
| 4 | June 2013 | Comparative analysis between histogram, EBGM ,and Eigen based face recognition Methods |
| 5 | June 2013 | Detection of Clones from UML Class Diagrams |

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| 6 | June 2014 | To improve code quality by identifying bad smells using refactoring techniques and metrics |
| 7 | June 2014 | Selenium Keyword driven automation testing framework |
| 8 | June 2014 | Evaluation of AODV protocol in MANETS NS-2 |
| 9 | June 2015 | Token based approach for the detection of code similarity |
| 10 | June 2015 | Clone Detection in uml sequence diagrams using token based approach |
| 11 | June 2015 | Efficacy of metamorphic testing as a technique of program testing and debugging |
| 12 | July 2017 | Efficient Load Balancing Task Scheduling in Cloud Computing using Raven Roosting Optimization Algorithm |
| 13 | July 2017 | Black Spot and Accidental Attributes Identification on State Highways and Ordinary District Roads Using Data Mining Techniques |
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KEY DIFFERENTIATORS

- Was organizing member of National Conference on Software Engineering conference held at Thapar Institute of Engg and Technology, Patiala
- Was organizing member of National Conference on Bioinformatics conference held at Thapar Institute of Engg and Technology, Patiala
- Member of IAENG association (membership Number 101321) since 2008
- Co-coordinator of Part-Time M.tech in department (computer engineering department) since 2013(Computer Engineering)
- Co-cordinator of SAF (Student Activity Fund) management committee of department.
- Member of BOS (Board of Studies) of department in 2014.
- Member of ACD of department in 2014.
- Member of Discipline committee of girls hostels in Punjabi University
- ***Best paper Award “Developments in the Technique of Metamorphic Testing: A Review of Studies” , National conference on Advancements in Electrical and Electronics Communication Engineering (AEECE-2015), Feb 20-21, 2015, pp 5-9***
- Member of Grievance Cell: Department of Computer Engineering, PUP

