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Dr. Satwinder Singh

Assistant Professor

Centre for Computer Science Technology

School of Engineering & Technology

Central University of Punjab

Bathinda-151100

email:satwindercse@gmail.com



Education

- Ph. D in 2014 from Guru Nanak Dev University, Amritsar
- M-Tech in 2004 from Guru Nanak Dev University, Amritsar
- B-Tech in 2002 from Punjab Agricultural University, Ludhiana

Award

ISTE- Section Best Teacher Award-2014

Experience

- Working as Assistant Professor in Centre for Computer Science & Technology, Central University of Punjab, Bathinda.
- Worked as Assistant Professor in Dept. Comp. Sci. & Tech. in Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib from Aug 2006 to Dec 2015
- Worked as Lecturer in Dept. Comp. Sci. & Tech in Rayat Institute of Engineering and Info. Tech. Railmajra, NawanShahar, From July 2004 to Aug 2006

Teaching Assignment

Software Engineering, Programming languages, Compiler Design, Design and Analysis of Algorithms, Data Structures, Database Management System

Research Project

Completed Research Project sponsored By Computer Society of India Titled “ Defect Prediction Model of Static Code Features for Cross-Company and Cross-Project Software”

Area of Specialization

Re-engineering of Software System , Maintenance and Fault prediction of Object Oriented Systems, Data Mining

Publications

- 1 Singh Satvinder, Kaushal M.P. & Singh Satwinder. (2006) Augmenting Ground Water Recharge Through Surface Drain, Journal Of Agricultural Engineering, Vol 43 No. 2
- 2 MundraTanvir, Singh Satwinder&Kahlon K.S. (2006), Microcontroller Based Power Supply, Journal Of Computer Science, New York, Vol. 2 No. 8 pp. 607-61.
- 3 Singh Satwinder, Kahlon K.S. &Harmandeep Singh. (2008), Re-Engineering to Analyse Object Oriented Programming, International Review on Computer and Software, Italy, Vol 2. No 7.
- 4 Singh Satvinder, Kaushal M.P. & Singh Satwinder. (2006), Reclamation and Management of Alkali Soils-A Decision Support System, Journal of Soil and water Conservation, Soil Conservation Society of India, Vol. 7 No. 2, pp. 25-32
- 5 Kaur, Jaswinder; Singh, Satwinder; Kahlon, K. S. (2008), Comparative analysis of the software effort estimation models, World Academy of Science, Engineering and Technology, Citeseer Publisher Vol. 46, No.2, pp. 485-487.
- 6 Sharma Vandna, Singh Satwinder&Kahlon K.S. (2009), Performance Study of Improved Heap Sort Algorithm and Other Sorting Algorithms on Different Platforms, International Journal of computer Science and Network Security, Vol. 8 No. 4 pp. 101-105
- 7 Sharma Vandna, Singh Satwinder,Kahlon K.S. (2009),Comparative Performance Study of Improved Heap Sort Algorithm on Different Hardware, Journal of Computer Science Vol. 5. No. 7 pp. 476-478.
- 8 Kaur, Jaswinder, Singh Satwinder; Kahlon K.S. &Bassi, Pourush. (2010), Neural Network-A Novel Technique for Software Effort Estimation, International Journal of Computer Theory and Engineering, Vol. 2 No. 1. pp. 1793-8201.
- 9 Kaur, Amandeep, Singh, Satwinde, Kahlon, K.S. Sandhu, Parvinder S. (2010), Empirical Analysis of CK & MOOD Metric Suit, Int. Journal of Innovation, Management and Technology, Vol.1, No 5, pp. 447-452
- 10 Singh, Satwinder, Kahlon, K.S. & Sandhu, Parvinder S.(2010), Re-engineering to analyze

and measure object oriented paradigms, Information Management and Engineering (ICIME), 2010 The 2nd IEEE conference, pp. 472-478

- 11 Singh Satwinder, Kahlon K.S. (2014), Effectiveness Of Encapsulation And Object-Oriented Metrics To Refactor Code And Identify Error Prone Classes Using Bad Smells, ACM SIGSOFT SEN, Vol 36 No. 5, pp. 1-11.
- 12 Singh Satwinder, Kahlon K.S. (2012), Effectiveness of Refactoring Metrics Model to Identify Smelly and Error Prone Classes in Open Source Software ACM SIGSOFT SEN, Vol 37 No. 2, pp. 1-10.
- 13 Singh Satwinder, Mittal Punnet, Kahlon K.S. (2012), Empirical Model for Predicting High, Medium and Low Severity Faults using Object Oriented Metrics in Mozilla Firefox special issue Advanced Software Engineering and Its Applications, IJCAT, Inderscience Publication , Vol 47, No. 2, pp. 110-124.
- 14 Mittal Puneet, Singh Satwinder, Kahlon K.S. (2011), Identification of Error Prone Classes for Fault Prediction Using Object Oriented Metrics [Advances in Computing and Communications in Computer and Information Science](#) Vol 191, pp. 58-68
- 15 Singh, Pavitdeep, Singh, Satwinder & Kaur, Jatinder. (2013), Tool for generating code metrics for C# source code using abstract syntax tree technique, ACM SIGSOFT Software Engineering Notes, Vol. 38. No. 5, pp. 1-4.
- 16 Kapila, Heena & Singh Satwinder. (2013), Analysis of CK Metrics to predict Software Fault-Prone-ness using Bayesian Inference, International Journal of Computer Applications, Vol. 74, No 5, pp. 12-17
- 17 Kaur, Harshpreet, Singh Satwinder & Kaur Sarbjit. (2013), Empirical Analysis Of Open Source System For Predicting Smelly Classes, International Journal of Engineering, ESRSA Publication, Vol. 2 No. 3, pp. 1-4.
- 18 Kaur Sarbjit, Singh, Satwinder & Saberwal, H. K. (2013), A Quantitative Investigation Of Software Metrics Threshold Values At Acceptable Risk Level, International Journal of Engineering, ESRSA Publication, Vol. 2 No. 3, pp. 1-5.
- 19 Choudhary Navneet & Singh Satwinder. (2014), Enhancing CK Managerial Model of Design Effort using Object Oriented Design Metrics, International Journal of Applied Research in Computing, Vol. 2 No. 5, pp. 8-11.
- 20 Singh Mandeep & Singh Satwinder. (2014), Software Productivity Empirical Model for Early Estimation of Development, International Journal of Computer Science and Information Technologies, Tech Science Publications, Vol 5. No. 1, pp. 682-685.
- 21 Kaur Jasmeet & Singh Satwinder. (2014), Reducing Time to Market of Software with Time Duration Empirical Model, International Journal of Computer Science and Information Technologies, Tech Science Publications, Vol 5. No. 1, pp. 682-685.
- 22 Garg Ranjna & Singh Satwinder. (2014), Identifying Clone Based Refactoring with Object Oriented Metrics approach, International Journal of Computer Application and Technology,

- Techno Publications, Vol. 1 No. 1, pp. 62-66
- 23 Kanwalpreet Kaur & Singh Satwinder. (2014), Optimized Test Case Prioritization with multi criteria for Regression Testing, International Journal of Advanced Research in Computer Engineering & Technology, Vol. 3, No. 4, pp. 1469-1473.
- 24 Singh Satwinder& Kaur Raminder. (2014), Clone Detection in UML Class Models using Class Metrics, SIGSOFT Software Engineering Notes, ACM, Vol. 39. No. 3, pp. 1-4.
- 25 Kaur Raminder& Singh Satwinder. (2014), Clone Detection in Software Source Code using Operational Similarity of Statements, SIGSOFT Software Engineering Notes, ACM, Vol. 39. No. 3, pp.1-4 May 2014.
- 26 Kapila, Heena, Singh Satwinder. (2014),Bayesian Inference to Predict Smelly classes Probability in Open source software, International Journal of Current Engineering and Technology, International Press Corporation , USA, Vol. 4. No.3, pp. 1724-1728
- 27 **Kanwalpreet Kaur &Satwinder Singh, Optimized Test Case Prioritization with multi criteria for Regression Testing,International Journal of Advanced Research in Computer Engineering & Technology, Vol. 3. No. 4, pp. 1469-1473.**
- 28 **Kanwalpreet Kaur &Satwinder Singh. (2014), Regression Testing Based on Comparing Fault Detection by multi criteria before prioritization and after prioritization, International Journal of Advanced Research in Computer Engineering & Technology, Vol. 3. No. 7, pp. 2481-2487,**
- 29 **Harinder Kaur &Satwinder Singh. (2012), Maintenance Model for Open Source Object Oriented Designs, International Journal of Engineering Research and Technology, Vol.1 No. 8. 1-4**
- 30 Kumar Balwinder, Singh Satwinder&Pavitdeep Singh. (2014), Analysis of Code Clone Detection using Object Oriented System and Neural Network,International Journal of Engineering Research and Technology, Vol. 3 No. 9, pp. 1386-1391
- 31 Singh Satwinder&Kahlon K.S. (2014), Object Oriented Software Metrics Threshold Values at Quantitative Acceptable Risk Level, CSI Transaction on ICT, Vol. 2, No. 3, pp. 191-205
- 32 **Khatri Neha &Singh Satwinder. (2014), Issues of Data Security and Privacy in Cloud Computing, International Journal of Software and Web Sciences, Vol 10, No. 1 pp. 47-52**
- 33 Satwinder Singh Satwinder, Balwinder Kumar. (2015), Code Clone Detection and analysis using Software metrics and Neural Network- A Literature Review, International Journal of Computer Science Trend and technology
- 34 BawaAmandeep& Singh Satwinder (2015), Analysis of Software System to Predict Antipattern with Bayesian Inference, International Journal of Computer Science and

Communication Engineering, Vol 4 No. 3, pp. 4-6

- 35 Kaur Ashmeet& Singh Satwinder (2015), Impact of Coupling and Cohesion Metrics on Fault Tolerance Prediction, International Journal of Computer Science and Communication Engineering, Vol 4 No. 3 pp. 13-15

Workshop Attended

- Orientation Programme for Technical Teachers, June 30- July 11, 2008 at NIT Hamirpur
- MS .Net Framework & Programming Using C# from Dec 7- Dec 18, 2009 at CDAC & JNTU, Hyderabad
- Mission 10X Workshop from July 19- July 23 2010 sponsored by ISTE & Wipro held at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib
- Leveraging Open Source for Education from July 12-July 16 2010 sponsored by PTU, Jalandhar and held at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib
- Software Engineering Practices in OO Programming from June 12- June 18, 2012sponsored by PTU, Jalandhar and held at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib
- Network Simulation Using Qualnet from July 9-July 13, 2012sponsored by PTU, Jalandhar and held at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib
- Emerging Computer Trends and technologies in Industries from June 6-June 20, 2014sponsored by PTU, Jalandhar and held at RIMT-IEC, Mandigobindgarh
- Research Methodology workshop from Dec 14-Dec 18, 2015 sponsored by DST, New Delhi and held at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib