

Profile Page

Research Interests :

Software quality assessment, program comprehension, dynamic metrics, static and dynamic program analysis, software code smells and refactoring, evidence-based software engineering, Internet of Things (IoT), music technology and computer science education

Other Profile Links :

Personal Web Link :

www.pvsingh.com [Click Here](#)

Journal Publications :

Year	Journal	Publication
2017	Computers and Security (Elsevier), vol 65, pp. 344-372	Karanpreet Singh, Paramvir Singh, Krishan Kumar, "Application Layer HTTP-GET Flood DDoS Attacks: Research Landscape and Challenges"
2017	International Journal of Systems Assurance and Management (Springer), vol. 8, pp. 135-150	Prita Yadav, Paramvir Singh, "Comparative performance analysis of calling context profiling data structures"
2017	Journal of Biology and Today's World, In Press	Kawaljeet, Renu Dhir and Paramvir Singh, "Software Clustering using hybrid Flower Pollination Algorithm"
2017	International Journal of Intelligent Systems and Applications, In Press	Karanpreet Singh, Paramvir Singh, Krishan Kumar, "Fuzzy-based User Behavior Characterization to Detect HTTP-GET Flood Attacks"
2017	International Journal of Intelligent Engineering Informatics (Inderscience), vol. 5, no. 1, pp. 80-100	Karanpreet Singh, Paramvir Singh and Krishan Kumar, "Impact analysis of application layer DDoS attacks: A simulation study"
2016	Computers and Security (Elsevier), vol. 56, pp. 111-139	Karanpreet Singh, Paramvir Singh, Krishan Kumar, "A systematic review of IP traceback schemes for denial of service attacks"
2016	International Journal of Cyber-Security and Digital Forensics, vol. 5, no. 1, pp. 30-45	Harpreet Singh, Paramvir Singh, "Enhancing AES using Novel Block Key Generation Algorithm and Key Dependent S-boxes"
2015	International Journal of Intelligent Systems and Applications, vol. 4, pp. 1-17	Kawaljeet, Renu Dhir and Paramvir Singh, "Hybrid Black Hole Algorithm for Bi-Criteria Job Scheduling on Parallel Machines"
2014	ACM SIGSOFT SEN, vol. 39, no. 1, pp. 1-8	Rani Geetika, Paramvir Singh, "Empirical investigation into static and dynamic coupling metrics"
2014	ACM SIGSOFT SEN, vol. 39, no. 2, pp. 1-8	Rani Geetika, Paramvir Singh, "Dynamic coupling metrics for object oriented software systems: A Survey"
2014	International Journal of Computer Science and Engineering Technology, vol. 05, no. 06	Shelza Kapur, Paramvir Singh, "Performance analysis of DCT based digital image watermarking using color spaces effects"
2008	ACM SIGSOFT SEN, vol. 33, no. 6, pp. 1-6	Paramvir Singh, Hardeep Singh, "DynaMetrics: A runtime metric-based analysis tool for object-oriented software systems"
2007	Computer Society of India (CSI) Journal, vol. 37, no. 03.	Paramvir Singh, Hardeep Singh, "Runtime coupling metrics at various levels of abstraction"

Conference Publications :

Year	Conference	Publication
2017	Evaluation and Assessment in Software Engineering	Paramvir Singh, Karanpreet Singh, "Exploring Automatic Search in Digital Libraries – A Caution Guide for Systematic Reviewers"
2017	International Conference on Computers, Software and Applications (COMPSAC), Turin, Italy	Veena Saini, Paramvir Singh and Ashish Sureka, "SEABED: An Open-Source Software Engineering Case Based Learning Database"
2017	Evaluation and Assessment in Software Engineering, Karlskrona, Sweden	Paramvir Singh, Karanpreet Singh, "Exploring Automatic Search in Digital Libraries – A Caution Guide for Systematic Reviewers"
2017	16th International Conference on Information Technology (ICIT), to be held in Orissa, India	Sarishty Gupta, Paramvir Singh, "Comprehending Scenario-level Software Evolution using Calling Context Trees"
2017	10th Innovations in (formerly, India) Software Engineering Conference (ISEC 2017), Jaipur, India.	Arvind Mahindru and Paramvir Singh, "Dynamic Permissions based Android Malware Detection using Machine Learning Techniques"
2017	23rd Asia Pacific Software Engineering Conference (APSEC), Hamilton, New Zealand	Garima Dhaka and Paramvir Singh, "An Empirical Investigation into Code Smells Elimination Sequences for Energy Efficient Software"
2016	23rd Asia Pacific Software Engineering Conference (APSEC), Hamilton, New Zealand	Garima Dhaka and Paramvir Singh, "An Empirical Investigation into Code Smells Elimination Sequences for Energy Efficient Software"
2016	International Conference on Computational Techniques in Information and Communication Technology (IEEE), IPU, New Delhi, India	Gurpreet Kaur and Paramvir Singh, "Validating Software Evolution of Agile Projects using Lehman's Laws"
2016	International Conference on Computational Techniques in Information and Communication Technology (IEEE), IPU, New Delhi, India.	Monika and Paramvir Singh, "Modularizing software systems using PSO optimized hierarchical clustering"
2015	22nd Asia Pacific Software Engineering Conference (APSEC) (IEEE), New Delhi, India	Shallu Sarvari, Paramvir Singh and Geeta Sikka, "Efficient and scalable collection of dynamic metrics using map-reduce"

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
Book Chapter	Towards defining semi-markov dynamic conditional random fields (semi-DCRFs) / Enterprise Information Systems in 21st Century	Deep and Deep Publications Pvt. Ltd., New Delhi, India	Paramvir Singh	978-81845 01834	2009
Book Chapter	Overview of runtime coupling and cohesion metrics for object-oriented software systems / Enterprise Information Systems in 21st Century	Deep and Deep Pvt. Ltd., New Delhi, India	Paramvir Singh, Geeta Sikka and Hardeep Singh	978-81845 01834	2009

Events Organized :

Category	Type	Title	Venue	From	To	Designation
----------	------	-------	-------	------	----	-------------

Workshop	International	"Research-Teaching Exchange Excursion Workshop" sponsored partially under the program of International Co-operation Promotion, BayIntAn from the Bavarian Research and Innovation Agency, Bavaria, Germany, and co-organized by NIT Jalandhar and Technical University of Munich (TUM), Germany	NIT Jalandhar	15-09-16	24-09-16	Coordinator
Short Term Course (STC)	National	Recent Trends in Software Engineering and Knowledge Mining sponsored by TEQIP II	NIT Jalandhar	01-06-15	05-06-15	Coordinator
Short Term Course (STC)	National	Data Analysis and Soft Computing	NIT Jalandhar	09-06-14	13-06-14	Coordinator
Short Term Course (STC)	National	Advances in Software Engineering and Knowledge based Systems sponsored by TEQIP II	NIT Jalandhar	16-12-13	20-12-13	Coordinator

Professional Affiliations :

Designation	Organization
Member	Institute of Electrical and Electronics Engineers (IEEE) and IEEE Computer Society, USA
Life Member	Indian Society for Technical Education (ISTE), New Delhi, India

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Karanpreet Singh	Defending Web Services against Application Layer DDOS Attacks	Thesis Submitted	2017	Krishan Kumar

Admin. Responsibilities :

Position Held	Organization	From	To
Warden, Mega Boys Mega Hostel Block-F	NIT Jalandhar	05-03-17	till date
Coordinator, Communications	NIT Jalandhar	06-09-13	till date
MTech (Full-Time) CSE Program Coordinator	NIT Jalandhar	2013	till date