

## Faculty Profile

Name : Dr. Sangeeta  
Designation :Assistant Professor  
Qualifications : PhD , ME and BE  
Phone : 09818556721  
Email : sangeeta@msit.in



Area of Interest/Specialization: **Software Reliability Modeling, Optimization, Soft Computing, Green Computing, Natural Language Processing, Machine Translation.**

Experience : 09 years

Key Publications

1	An Ecological Space Based Hybrid Swarm-Evolutionary Algorithm for Software Reliability Model Parameter Estimation	International Journal of System Assurance Engineering and Management. ESCI/ Scopus Indexed	Springer, Vol. 11(1), 77-92, 2020/ ISSN nO 09764348, 09756809/ 1.02
2	Comprehensive Analysis of Hybrid Nature-Inspired Algorithms for Software Reliability Analysis	Journal of Statistics & Management Systems/ ESCI indexed 0972-0510 Online ISSN: 2169-0014	published, ESCI indexed. Taylor and Francis
3	Reliability Analysis and Modeling of Green Computing Based Software Systems”	Recent Patents in Computer Science, June 2019 / Scopus Indexed 18744796	Bentham Science, DOI:10.2174/2666255813666200116102406
4	A Quantitative Testing Effort Estimate for Reliability Assessment of Multi Release OSS Systems	Journal of Computational and Theoretical Nano-science/ Scopus Indexed) 1546-1955 (Print)	Vol. 16, 5089–5098, 2019
5	Magnetic Navigation based Optimizer: A New Optimization Algorithm for Software Reliability Model Parameter Estimation	Journal of Advanced Research In Dynamical and Control Systems / Scopus Indexed 1943023X	Vol. 14, 1958 – 1968, 2018,
6	New failure rate model for iterative software development life cycle process	Automated Software Engineering	Vol-28, 1-22 09288910, 15737535
7	Reliability analysis and modeling of green computing based software systems	Recent Advances in Computer Science and Communications (Formerly: Recent Patents	Vol 14, 1060--1071 ISSN No-2666-2566 (Online
8	Comprehensive survey on machine translation for English, Hindi and Sanskrit languages	Journal of Ambient Intelligence and Humanized Computing	/https://doi.org/10.1007/s12652-021-03479-0
9	An ecological space based hybrid swarm-evolutionary algorithm for software reliability	International Journal of System Assurance Engineering and Management	77-92, Vol 11, ISSN No 09756809, 09764348

	model parameter estimation		
10	REVIEW TO SOFTWARE RELIABILITY ASSESSMENT	PalArch's Journal of Archaeology of Egypt/Egyptology	Vol 17, 1813-1826, issn no-1567- 214X
11	Secured Congestion Control in WSN	IJCSMS Vol 13, March 2013	74-82, 2013, Impact Fact-2.110
12	Collision Avoidance using Hopfield Neural Network in WSN	IJEAM VOL 5, JULY 2013	24-31, 2013, Impact Fact-2.5
13	AIS in WSN: A review	IJCSMS Vol13, Issue 3, May 2013	78-84, 2013, Impact Fact-2.1
14	Sybil Attack Detection and Recovery using Immune Collaboration Model in WSN	IJESPR, Vol 5, Issue 1, June 2013	31-37, 2013, Impact Fact-2.8
15	Modified secure Congestion Aware Routing Protocol	IJESM, vol 4, Issue 1, June 2013	6-15, 2013
16	Detection of Network Layer Attacks in MANET'S using AODV	IJCSMS, vol 13, Issue 2, March 2013	19-24, 2013
17	A Distance Vector Based Approach to place Stable Link in Mobile Networks	IJS, Vol 2, Issue 3, 2012	76-79, 2012, Impact Fact-0.898
18	An Improved Leach Protocol to Enhance Network Life Time	IJS , Vol 2, Issue 2, 2012	41-44, 2012, Impact Fact-0.898
19	An Agent Based Approach to Avoid Selfish Node Dynamically in Mobile Networks	IJCSMS, Vol 12, Issue 3, 2012	49-53, 2012, Impact Fact-2.11

Papers presented in Conferences

<b>S. No</b>	<b>Date</b>	<b>Title of Conference or Institute Presented</b>	<b>Title/Subject of presentation (if made)</b>
1	April 2017	Advanced science and technology letter/144/2017-18	Exhausting Meta heuristic Nature inspired approaches for the parameter estimation analysis of software reliability growth models
2.	March 2016	IEEE sponsored conference(Computing for Sustainable Global development(Indiacom-2016)	Quality issues with big data analytics
3	March 2015	IEEE sponsored conference(Computing for Sustainable Global development(India-com-March 2015)	A statistical View of software Reliability and modelling
4	May 2011	International conference organized by RG education society	A Comparative Study of Position Based , Map Based and Topology Based Protocols In Vehicular Networks
5	May 2011	International conference organized by RG education society	Study Of Various Attacks In Wireless Sensors Networks

6	Jan 2011	International conference on Science and Engineering(ICSE-11 vol-1),R.G.education Society(Regd.,Rohtak)	"Security in different management domains of MANET"
7	Jan 2011	International conference on Advanced Computing & Communication Technology(ACCT-11),vol1,R.G.education Society(Regd.,Rohtak)	"Machine Learning: Machine Translation"
8	Oct- 2009	International conference on Wireless network and embedded systems vol-2,CIET,Punjab.	Polling overhead optimization in MAC

#### Awards and Recognitions

- 1.
- 2.

#### Patent/Copyright

1	Dr. Sangeeta	<b>System and Method for estimating reliability of software developed under latest software development lifecycle</b>	Published	202111008557	01/03/2021	05/03/2021
2	Dr. Sangeeta,	<b>IOT based smart voting system for pandemic spread mitigation</b>	Published	202141006912	18/02/2021	26/02/2021

#### Sponsored Project/Consultancy

- 1.
- 2.

#### Books published

1. Practices Towards future Software Reliability Growth Model evolution  
ISBN No-978-81-942171-8-3

#### Ph.D Supervised

#### Memberships of Professional bodies

#### Other Contributions

Others ( Specify)	<b>FDP Attended/ Refresher Course</b>
-------------------------	---------------------------------------

Sr no.	Title	Venue
1	One Week ICT FDP from Jan 13-17 2014	NITTTR Chandigarh
2	One Week ICT FDP from Jan 27-31 2014	NITTTR Chandigarh
3	Refresher Course on ICT (Three Weeks), 5 <sup>th</sup> June 2014-26 <sup>th</sup> June 2014	BPS Mahila vishwavidyalaya, Khanpur.
4	One Week FDP on advances on Information Security 2016	DTU Delhi
5	One Week FDP on "Wireless Networks through ICT", Organized by NITTR at MSIT from 22-May to 26 May - 2017	MSIT Delhi
5	One Week STTP on "Health, Human Values, Ethics and Empowerment" from April 13 to April 18, 2018.	DTU Delhi
6	One week FDP on Contemporary issues and challenges in Management, Education and Information Technology "from 5th Feb 2019 – 9th Feb 2019	Maharaja Surajmal Institute, New Delhi
7	One Week ICT FDP on planning and management for institutional excellence from Nov 18-22-2019	NITTTR Chandigarh
8	One week FDP on Machine Learning using Python from 2 <sup>nd</sup> March to 6 <sup>th</sup> March 2020.	MSIT Delhi
9	FDP on Emerging Technologies in Cloud Computing, IOT and Block-chain Technology. From 19 <sup>th</sup> June to 23 <sup>rd</sup> June, 2020.	JPIT India
10	FDP on Python from 23 <sup>rd</sup> June to 29 <sup>th</sup> June, 2020.	BPIT India