

Name: Dr. A. John Sanjeev Kumar

Designation:. Assistant Professor

Department:. Computer Applications

Date of Joining:. 8 - July - 2019

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Educational Qualification:

Degree	Subject	College / University & Place	Year Completed
B.Sc	Special Mathematics	The American College	1996
M.C.A.	Computer Applications	Thiagarajar College Of Engineering.	1999
M. Phil	Computer Science	Manonmaniam Sundaranar University, Tirunelveli	2003
Ph.D	Spatial Database	Anna University, Chennai	2010
M.B.A.	Marketing	Madurai Kamaraj University, Madurai	2013

Specialisation in Teaching: Artificial Intelligence, Data structure

Specialisation in Research:. Spatial Data Mining, Data analytics

Research Interests:. Machine Learning, Deep Learning

Other Work Experience:

Designation	Institution / Company	Year - From (month/year) To (month/year)
Lecturer	PSNA College of Engineering, Dindigul	Jan 2000 - Jul 2003
Lecturer	Thiagarajar College Of Engineering. Madurai - 15	Jul 2003 - Nov 2009
Assistant Professor	Thiagarajar College Of Engineering. Madurai - 15	Dec 2009 - June 2019

Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year - From (month/year) To month/year)
Project Co-ordinator	Nov 2019 - Till

Publications:

Journal / Conference	International / National	Number
Journal	International	20
Conference	International	13
	National	15

Articles Published in International Journals:

Sl. No.	Title	Area	Name of the Journal	National / International	Year / Vol.
1	Intelligent Transport Route Planning Using Genetic Algorithm In Path Computation Algorithms	Soft Computing	Euro Journal of Scientific Research	International	2009 Vol 25 No 3
2	Spatial Associative Clustering for Intelligent Transportation route planning using evolutionary algorithm	Spatial Data Mining	International Journal of Computing Technology	International	2010 Vol 1 No 1
3	Energy Efficient Multi-Target Tracking In Wireless Sensor Networks	Network	International Journal of Decision Making in Supply Chain	International	2011 Vol 2 No 2

			and Logistics		
4	Survey on feature selection methods in Image Information Mining	Image Processing	Elixir Journal Computer Science & Engg Journal	International	2012 Vol No . 43
5	Implementation of image processing system using handover technique with MapReduce based on big data in the cloud environment'	Cloud Computing	International Arab Journal of Information Technology	International	2014 Vol. 13, No. 3
6	Design and implementation of hdps scheduler in hadoop over rackspace cloud server for better management of data in heterogenous networks'	Cloud Computing	International Review on Computers and Software	International	2014 Vol. 9, No. 6
7	Enhancement of map function image processing system using DHRF algorithm on big data in the private cloud tool	Cloud Computing	International Journal of Innovative Research in Advanced Engineering	International	2014 Vol. 1, No. 5, pp. 162 – 168
8	Implementation of cloud computing using an open source'	Cloud Computing	International Journals of Multidisciplinary Research Academy	International	2014 Vol. 4, No. 8
9	An Improved constrast enhancement approach for Panoramic dental X-ray Images	Image Processing	ARNP Journal of Engineering and Applied Science	International	2015 Vol 10 No 4 Pp 1897 – 1901
10	Business Analytics	Cloud	Australian	International	Vol : 8

	- Web Based Tool for Medical Image Screening Using Artificial Neural Networks Over Cloud Computing	Computing	Journal of Basic and Applied Sciences		Issue : 15 Pages: 315-321 September 2014,
11	Enhancement of Map Function Image Processing System using DHRF Algorithm on Big Data in the Private Cloud Tool	Big Data	Global Journal of Computer Science and Technology: (B) Cloud and Distributed	International	Volume 14 Issue 2 Version 1.0 Pages : 24 - 32 Year 2014`
12	Hybrid Big Data Image Processing for Creating Photographic Mosaics using Hadoop and Scalding`	Big Data	Asian Journal of Information Technology, (AJIT),		2016 Vol 15 Issue 3
13	Automated test data generation for branch testing using incremental genetic algorithm	Soft computing	Sadhana-Academy Proceedings in Engineering Sciences.	International	2016 Vol 41 No9 Pp 959 - 976
14	2D matrix based indexing with color spectral histogram for efficient image retrieval	Image Retrieval	Journal of systems Engineering and Electronics	International	2016 Vol 27 No 5 Pp 1122 - 1134
15	An edge directed gabor features for efficient image retrieval	Image Processing	Advances in natural and applied science	International	2017 Vol 11 No 3 Pp 6-24
16	An Intelligent Classification System for Diagnosing MRI Brain Images using Modified FCM and SVM	Image Processing	TAGA Journal of Graphic Technology	International	2018 Vol 14 Pp 2723 - 2735
17	A Buffered Genetic Algorithm for Automated Branch Coverage in Software Testing	Soft Computing	Journal of Information Science and Engineering	International	2019 Vol. 35 No.2

18	Framework for Classificaion Streaming of Twitter Data using Sentiment Analysis	Data Mining	Caribbean journal of Science	Internatinal	2019 Vol : 53 Issue : 1
19	An Improved NAIVE BAYES With Kernel Density Estimation For OPINION MINING	Data Mining	Caribbean journal of Science	Internatinal	2019 Vol : 53 Issue : 2
20	SPDM in Social Media for the Development of Business	Datamining	International Journal of Innovative Technology and Exploring Engineering	International	2020 Volume-9 Issue-5

Conference / Seminar Presentations:

S.No	Title	Name of the Conference	National/ International	Year/ Vol.
1.	Blue tooth Host controller Interface using UML	UML based design environment for interactive Application	National	March 2004
2.	A Defensive Mechanism for Security	Hitech Trends in Emerging Computational Technology	National	Sep 2004
3.	Effective Cost optimization Method using Spatial Database.	Conference on Networking and Distributed Computing	National	March 2005
4	Optimized Approach for Intelligent Transport Route Planning using Genetic Algorithms	Conference on Computational Intelligence and Information Security	National	Jan 2007

5	Multi-Target tracking using parallel Genetic Algorithms by MPI in high performance Computing cluster	Conference on Network Security	International	Jan 2007
6	Graphical Presentation Language with B+ Tree for Transportation Model	Advances in Computer Engineering and Networking	National	March 2007
7	Intelligent Transport Route Planning using Minimum Gap Generation Genetic Algorithm	Conference on Mathematical and Computational Model	National	Dec 2007
8	Intelligent Transport Route Planning Using Parallel Genetic Algorithms and MPI in High Performance Computing Cluster	Advance Computing and Communication (ADCOM 2007)	International	Dec 2007
9	A Survey of OODB Clustering algorithms for XML Databases	Information Management	National	Dec 2007
10	A Comparative Study of Route Optimization methods in Intelligence Transportation Applications	Information Management	National	Dec 2007
11	The Issues of Spatial Data mining and the role of evolutionary computing Optimization Techniques	Computing Technologies	National	March 2008
12	A Genetic Algorithm Based Clustering for Effective Nearest Neighbour Selection	Recent Research Trends in Advance Computing	National	April 2008
13	Cost Optimization In Path Evaluation Using Spatial Database	Operation Research Applications in Engineering And Management	International	May 2009
14	A Spatial Association rule Mining algorithm for Intelligent Transportation Systems	Operation Research for Urban and Rural	International	Dec 2010

		Development		
15	A Novel Animation Scheme using Second order Markov chain model	Knowledge Discovery and Data mining	National	Aug 2011
16	A survey on ERP used in SME's Industries and Manufacturing food compaines	Knowledge Discovery and Data mining	National	Aug 2011
17	A Survey on Cloud computing in the Environment on windows Operating System.	Signal and Image Processing	National	Feb 2012
18	Wavelet based Watermarking Techniques using Principal Component Analysis and Domain	IJCA Proceedings on National Conference on Advances in Computer Science and Applicatons	International	March 2012
19	Reflection and Exploration of Interactive ERP Teaching in Colleges and Universities	IJCA Proceedings on National Conference on Advances in Computer Science and Applicatons	International	March 2012
20	Implementation of cloud computing using an open source	E-governance on cloud computing	International	Oct 2012
21	Classification Mining for Resume screening using artificial neural network	International conference on Business Analytics and Intelligence	International	Dec 2013
22	Distributed Combined Authentication and Intrusion Detection in High-Security Mobile Ad Hoc Networks to reduce the computation complexity	IJCA Proceedings on National Conference on Advances in Computer Science and Applicatons	International	March 2012

23	'An assimilated approach of concept analysis and particle swarm optimization algorithm for effective test suite minimization'	IEEE International Conference on Computational Intelligence and Computing Research, IEEE Xplore:	International	26 December 2013
24	A review of the software testing process'	National Conference on State of art Enabling Technologies of Distributed Computing (NCSEDC' 2016)	National	March 2016
25	"Business Analytics-Web Based tool for Resume Screening using Artificial Neural Networks over Cloud Computing"	International Symposium in honor of Dr. Ravi Ravindran" at Indian Institute of Science (IISc), Bangalore.	International	2016
26	Exploring Trends of Data Management on Big Data Analytics over Cloud Storage", ".	3 rd International Conference of Business Analytics and Intelligence" at Indian Institute of Management (IIM), Bangalore	International	2016
27	PROGNOSTICATE BUSINESS USING PREDICTIVE ANALYSIS WITH BITOOL, TOWARDS MOST RECOMMENDED PRODUCTS SOCIAL NETWORK USING SPATIAL DATA ANALYSIS	International Conference on Digital Transformation	International	2020
28	USING DATA MINING TECHNIQUES FOR PREDICTING TRAFFIC INCIDENT	International Conference on Digital Transformation	International	2020

Lectures / Talks given:

Topic	Area	Delivered at	Year
Learning and Planning	Artificial Intelligence	Kamaraj College of Engineering Technology, Virudhunagar	August 2004
Unix and Windows	Operating System	PSNA college of Engineering and Technology	February 2002
IBM DB2, Express C , WSAD	Database	Dr. Mahalingam college of Engineering, Pollachi	October 2006
Compiler Design	System	Thiagarajar School of Management	August 2007
File Management	Programming Language	Vellammal Engineering College, Madurai	October 2010
Grid Computing	Distributed Computing	Thiagarajar Arts College	August 2011
Spatial Database	DBMS	Sethu Institute of Technology, Kariapatti, Madurai	February 2012
Machine Learning	Intelligent Computing	Sethu Institute of Technology, Kariapatti, Madurai	December 2012
Current Trends in Computer Science	Cloud, Bigdata, analytics	Syed Hameedha Arts and Science College, Kilakarai, Ramnad	February 2015
Digital Computing	Cloud Computing	Arul Anandar College, Madurai	March 2017
Career opportunities for Computer Science	Computer Science	Fatima College, Madurai	August 2017
Data Storage	DBMS	Sri Meenakashi Govt college for Women	March 2020
Data science concept	Data science	R.V.S.College pf Engineering, Dindigul	June 2020

Awards / Fellowships:

B.Ramaswamy Prize for First Rank Holder in B.Sc Graduation	Proficiency in Mathematics	Awarded	The American College
Faculty Mentor	For guiding the students in the Great Mind Challenge contest conducted by IBM	Awarded	IBM, India
IBM Faculty Ambassador Award	Great Mind Challenge Contest 2005	Awarded	IBM, India
ICCA Faculty Ambassadors	IBM Centre of Excellence	Awarded	IBM, India

Doctoral Students**Completed:**

Name of the student	Title of the thesis
1.U. Mehraj Ali	Design and Implementation of optimized algorithms for reducing the waiting time in big data analysis.
2. T. Manikumar	Automated test data generation for branch coverage using novel genetic algorithms
3. R. Maruthamuthu	Feature descriptors and learning approaches for image retrieval

Ongoing:

Name of the student	Title of the thesis
E. Vinoth Kumar	Pursuing
S. Raja Rajeswari	Pursuing
A. Antony Anderson	Pursuing
M. Kavitha	Pursuing
D. Gandhimathi	Pursuing

Other Activities / Academic Credentials:**1. Doctoral Committee Member for**

Five Ph.D candidates in Anna university, Chennai and

Four Ph.D candidates in Sathyabama University, Chennai.

2. Additional Qualifications

IBM certified Websphere Studio Application Developer V5.0 from IBM USA

(May 2004)

IBM certified Database Associate – DB2 Universal Database V 9.0 from IBM USA (

Aug 2004)

NPTEL Certification on “Joy of computing PYTHON” (May2019)

Mathwork Certification on "Machine Learning onramp" (June 2020)

Mathwork certification on "Deep Learning onramp" (June 2020)

3. National Conference Chairperson

National Conference on Recent Research Trends in Advance Computing	Chair person for paper presentation	April 2008 April 2009	Thiagarajar School of Management, Madurai
National Conference on Hi-Tech in Emerging Computation Technology	Chair person for paper presentation	Feb 2012	Seethu Institute of Technology, Madurai

4. Details of the Conferences / Workshops Organised

S.No	Title of the Workshop	Period	Place	Remarks
1.	Data Warehousing & OLAP	2 days May 04	Thiagarajar College of Engineering	Students & Staffs
2	Foundation of Middleware Technologies	3 days Sep 06	Thiagarajar College of Engineering	Faculty & Students
3	IBM TIVOLI REACH PROGRAM	2 days Oct 06	Thiagarajar College of Engineering	Faculty & students

4	XML and Related Technologies	3 days Apr 07	Thiagarajar College of Engineering	Faculty
5	IBM DB2 using XML and SOA	1 day May 07	Thiagarajar College of Engineering	Faculty
6	Business Intelligence	2 days Sep 07	Thiagarajar College of Engineering	Faculty
7	National Conference on Information Management	1 day Dec 07	Thiagarajar College of Engineering	Faculty, Research Scholars
8	IBM TGMC Workshop	1 day Dec 09	Thiagarajar College of Engineering	Faculty and Students
9	IBM RAD Workshop	4 days Feb 10	Thiagarajar College of Engineering	Faculty and Students
10	IBM RAD Workshop	4 days Aug 10	Thiagarajar College of Engineering	Faculty and Students
11	National conference on Information and Network Management	2 days March 11	Thiagarajar College of Engineering	Faculty, Research Scholar and Students
12	IBM Lotus Domino workshop	4 days June 11	Thiagarajar College of Engineering	Faculty and Students
13	IBM TDS Workshop	4 days Dec 11	Thiagarajar College of Engineering	Faculty and Students
14	Research Methodologies in Computing Science, Information Technology and Engineering	1 day Nov 11	Thiagarajar College of Engineering	Faculty and Research Scholars
15	Recent Trends and Research issues in Business intelligence	1 day 29Nov 12	Thiagarajar College of Engineering	Faculty and Research Scholars
16	National conference on Information and Network Management	2 days 4-5 April 13	Thiagarajar College of Engineering	Faculty, Research Scholar and Students

17	One day workshop on "Analytics using Bluemix"	26 Feb 2015	Thiagarajar College of Engineering	Faculty, Research Scholar and Students
18	Cognitive Cloud Computing	13 Nov 2015	Thiagarajar College of Engineering	Faculty, Research Scholar and Students
19	Computational Intelligence for Big Data Analytics	17-18 November 2016	Thiagarajar College of Engineering	Faculty, Research Scholar and Students
20	Google android workshop	May 2016	Thiagarajar College of Engineering	Students
21	Research Issues and Challenges in Deep Learning"	Aug 2018	Thiagarajar College of Engineering	Faculty, Research Scholar and Students
22	International Conference on Digital Transformation	March 2020	The American College	Faculty, Research Scholar and Students

5. Details of the Conferences / Workshops Attended

S.No	Title Of Conference	Period	Place	Remarks
1	Modern Trends in Software Development & Marketing Management	14 days 11.11.2002 to 24.11.2002	Coimbatore Institute Of Engineering & Technology, Coimbatore	AICTE - ISTE - STTP
2	Strategic planning for Institutional development	14 days 19.11.2001 to 01.12.2001	National Engineering College, Kovilpatti	AICTE-ISTE-STTP
3	Staff Development Programme	14 days 28.04.03 to 11.05.2003	R.V.S.College Of Engineering & Technology,	AICTE-STTP

			Dindigul	
4	Neuro - Fuzzy Application	2 days 2&3.12.2000	Annamalai University	UGC - Workshop
5	UML & Extreme Programming	3 days 24 -26.10.2002	Anna University, Chennai	Workshop
6.	Application of mathematics in Engg. & Technology	1 day 10.9.2002	PSNA College of Engineering & Tech., Dindigul	Workshop
7.	Remote Sensing and GIS	2 days 5&6 .8.2005	Thiagarajar College of Engg., Madurai	Workshop
8.	Data Warehousing and Mining	2 days 18 & 19 .11.2004	Thiagarajar College of Engg., Madurai	Workshop
9.	J2EE API Technology on Server Oriented Computing	2 days 16 & 17 . 02. 2006	Thiagarajar College of Engg., Madurai	Workshop
10.	Information Intelligent Agents	14 days 24.10.2004 to 6.11.2004	PSG College of Technology, Coimbatore	AICTE-ISTE - STTP
11	Workshop on Virtual Lab	1 day 23.02.2005	Dept of CSE,TCE, Madurai	Workshop
12	E-Governance in Educational Perspective	1 day 12.10.2002	Periyar Maniammai College of Technology for women, Vallam	ISTE Annual Convention
13	Robotics and Telematics	1 day 30.11.2005	Thiagarajar College of Engg., Madurai	EU - IECCP
14	IBM TIVOLI Reach Program	2 days 22,23.04.2006	Thiagarajar College of Engg., Madurai	IBM Academic Initiative
15	IBM Great Mind Training Programme	2 days 9,10 .09. 2006	Thiagarajar College of Engg., Madurai	IBM Academic Initiative
16	Evolution of computing Towards .NET 3.0 and Allied Technologies	2 days 26-27 .02. 2007	Thiagarajar College of Engg., Madurai	Micro Soft Workshop
17	Multimedia Data types and Formats	14 days 12.11.2007 to24 .11 2007	Thiagarajar College of Engg., Madurai	AICTE - SDP

18	SDLC and Project Management- Best Practices	2 days 27,28 -07-2007	Thiagarajar College of Engg., Madurai	TCS - FDP
19	DB2 Viper	1 day 30-05-2007	Thiagarajar College of Engg., Madurai	IBM-Workshops
20	ECC for Security devices & software	1 day 11-07-2008	Thiagarajar College of Engg., Madurai	TCS - FDP
21	Data Mining Using PASW Modeler	1day 22-08- 2009	NIT , Trichy	Workshop
22	Data Mining	1 day 31-7-2012	Thiagarajar College of Engg., Madurai	FDP
23	Aakash for Education	2 days 10 & 11 - 11-2012	Indian Institute of Technology, Bombay	ISTE Workshop
24	Outcome Based Education	2 days Oct 22-23, 2013	Thiagarajar College of Engg., Madurai	TEQIP Workshop
25	Business Analytics and Intelligence	3 days Dec 11 - 13, 2013	Indian Institute of Management, Bangalore	International Conference
26	Mobile App Development through Hands on	3 days Sep 4-6, 2014	Thiagarajar College of Engg., Madurai	TEQIP Workshop
27	Databases - Learning through Activity	7 days 23.6.2014 - 27.6.2014	Thiagarajar College of Engg., Madurai	TEQIP Workshop
28	Analytics using Bluemix,	1 day 26 February 2015	Thiagarajar College of Engg., Madurai	IBM-Workshops
29	International Accreditation and Program Assessment	2 days 4-5 November 2016	Thiagarajar College of Engg.	TEQIP Workshop
30	Computational Intelligence for Big Data Analytics	2 days 17-18 November 2016	Thiagarajar College of Engg., Madurai	DST - SERB Workshop
31	Standard Operating Procedures for TCE,	1 day 22 November 2016	Thiagarajar College of Engg., Madurai	TEQIP Workshop
32	Cloud Computing Technologies	6 days Nov 29 -	Thiagarajar College of Engg.	TEQIP Workshop

		Dec 4, 2016		
33	Big Data and IoT – The Strategies for Smart Environments	5 days 17-21, Feb 2017	Thiagarajar College of Engg.	TEQIP Workshop
34	Real time Data Analytics	7days 9-15 March 2017	Thiagarajar College of Engg.	TEQIP Workshop
35	Awareness on UG Self Assessment Report (SAR) of NBA	1 day 13-oct-2017	Thiagarajar College of Engg.	TEQIP Workshop
36	Big Data Analytics for cyber securing solutions	2 days 18-19, Sep 2018	Thiagarajar College of Engg.	TEQIP Workshop
37	Foundation Program in ICT for Education FDP 101x	2 Weeks Sep13,2018 Oct 21, 2018	IIT Bombay – Online course	FDP
38	Pedagogy for online and Blended Teaching learning Process FDP 201 x	2 Weeks Oct 30, 2018 Dec 10, 2018	IIT Bombay – Online course	FDP
39	Mentoring Skills	01-11-2018	Thiagarajar College of Engg	Workshop
40	Deep Learning for Visual computing	One Week 28 Jan 2019 – 3 Feb 2019	Thiagarajar College of Engg.	AICTE QIP STC
41	Data Science for Internet of Things	One week 04 Feb 2019 - 09 Feb 2019	Thiagarajar College of Engg.	AICTE QIP STC
42	Pedagogical Innovations and Research Directions in STEM Education	One week 25 Feb 2019 - 02 Mar 2019	Thiagarajar College of Engg.	AICTE QIP STC
43	Research Issues and Challenges in Data Science and Big data Analytics	One week 18 Mar 2019 24 Mar 2019	Thiagarajar College of Engg.	AICTE QIP STC

6. Academic Research Guidance (M.Phil)

Name Of Research Scholars	M.Phil/ Ph.D.,	Area of Research Work	Status
R.Saravanan	M. Phil	Network	Completed.
J.Aruna Devi	M.Phil	High Performance Computing	Completed.
K.Vijayalakshmi	M.Phil	Image Processing	Completed

7. Industrial Training Programme:

S.No	Title	Period	Place	Remarks
1	Object oriented and Process focused implementation using C++	Phase 1 : 14.4.2008 to 19.4.2008) Phase 2: (23.6.2008 to 27.6.2008)	Honeywell Technology Solution Ltd., Madurai	Industry - Academic Interaction Workshop

8. Research :

Period		No. of Years	Designation / Nature of job	Last Pay Drawn	Institute /Organisation
Fro m	To				
Jan 2005	June 2009	4 ½	Research Scholar	---	Anna University, Chennai (part time)
Jan 2010	June 2019	9	Research Guide		Thiagarajar College Of Engg., Madurai
Jan 2015	Till	5	Research Supervisor		Bharathiyar University