

Dr. G. Vinoth Chakkaravarthy

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Educational Qualification:

Degree	Institution	University	Month & Year Of Passing	Area of Specialization	Remarks
Ph.D	Velammal College of Engineering and Technology	Anna University	November 2017	ICE (CSE)	Commented
M.E	Thiagarajar College of Engineering	Anna University	June 2006	CSE	First class with distinction
B.E	P.S.N.A college of Engineering and Technology	Madurai Kamaraj University	May 2000	CSE	First class

Experience in Years: 18 years 01 Month

Employment History:

Name of the Organization	Designation	Date of joining	Date of relieving	Years of Experience		
				Years	Months	Days
Velammal College of Engineering and technology	Associate Professor	1-12-2017	Till date	3	4	-
Velammal College of Engineering and technology	Assistant Professor	01-07-2011	31-12-2017	6	6	-
Velammal College of Engineering and technology	Lecturer	01-06-2009	31-06-2011	2	1	-
Sethu Institute of Technology	Senior Lecturer	January 2008	May 2009	1	5	-
Sethu Institute of Technology	Senior Lecturer	Aug 2006	Dec 2008	1	5	-
P.T.R College of Engineering and Technology	Lecturer	Aug 2001	Dec 2004	3	4	-

**Interested Research Areas: Network Security, IoT, Cyber Security, Cryptography,
Block chain Technology**

Funded Research Projects: 05

Name of the Faculty	Position in Project (PI/CO PI)	Title of the project	Funding agency	Amount	Status
Dr.G.VinothChakkaravarthy	CO PI	Efficient e-waste management through coordinated Web Service using WS-Dependable Space	DST, India	16.09 Lakhs	Completed
	CO PI	CST System for Process Heat / Heat Applications	MNRE, India	56.25 Lakhs	On Going
	CO PI	Intelligent Kart for Queueless and Effortless Billing	DST –IEDC , India	1 Lakh	Completed
	CO PI	Development of Ground Station with Wireless Telemetry	Institutions of Engineering, India.	Rs.50,000	Completed
	CO PI	Development and Designing An Ergonomic Computer Mouse	Institutions of Engineering, India.	Rs. 20,000	Completed

Appreciations for students Projects:

- Guided a project titled “ **Intelikart for shopping malls**” and won the second prize in MADURAI DISTRICT LEVEL SKILL SUMMIT 2017" Conducted by Department of Employment and Training, Tamil Nadu skill Development corporation, Government of Tamil Nadu on 10-10-2017 and won "SECOND PRIZE".
- Guided a project titled “ #FARM2HOME” and won "SILVER MEDAL" in the Project Competition Conducted by Department of Electronics and Communication Engineering, Government college of Engineering, Salem on 28-02-2018 and won "SILVER MEDAL"

- Guided a project titled “SMART KART FOR QUEUE LESS BILLING using RFID” and won the first prize of INR 5,000 in the Project Contest conducted by Velammal Institute of Technology on 09-09-2017
- Mentoring a student team from II year CSE in online Hackathon and the team has secured 27th rank among 1554 teams in D2C online Hackathon Festival conducted by National Institute of Technology(NIT), Sikkim and the same team has secured 44th rank among 1568 teams in D2C online Hackathon Festival conducted by Kalinga Institute of Industrial Technology(KIIT), Bhubneshwar.
- Guided a student Project titled “**Accident Prevention using Eye blink Sensor and alcohol sensor**” won the first prize in the AICTE sponsored Project competition conducted by Sethu Institute of Technology on 7th to 11th October 2013.
- Guided a student Project titled “**Greenome**” won the first prize in the state level technical project competition conducted by Mahindra College of Engineering.

Publications Details:

1. International Journal Publication Details: 12

- Vinoth Chakkaravarthy, G, Alli, P & Raja Lavanya 2016, ‘Cost- effective polynomial-based multicast– unicast key distribution framework for secure group communication in IPv6 multicast networks’, **IET Information Security, The Institution of Engineering and Technology 2016, doi: 10.1049/iet-ifs.2015.0398 Impact factor : 1.013**
- G Vinoth Chakkaravarthy, Dr.P.Alli& Raja Lavanya 2016, ‘Cost effective multicast - unicast based key management for secure group communication’, **Advances in Natural and Applied Sciences, September 2016, vol. 10 (13): pp. 9-21. Impact factor : 0.35**
- Vinoth Chakkaravarthy, G & Ambiga, P 2014, ‘Dynamic key management schemes: A survey’, **Advances in Natural and Applied Sciences, vol. 8, no. 17, pp. 1-7. Impact factor : 0.35**
- Vinoth Chakkaravarthy, G, Ambiga, P & Grace Shalini, T 2015, ‘Energy efficient multicast and unicast approach for rekeying in IPV6’, International Journal of Applied Engineering Research, ISSN 0973-4562, vol. 10, no. 55.
- Vinoth Chakkaravarthy, G, Alli, P & Raja Lavanya “Energy efficient rekeying approach for dynamic membership changes in Group key management” published in the “European journal of Scientific Research, Volume 82 Issue2, 2012”
- Vinoth Chakkaravarthy, G “Talking Assistance about Location Finding both Indoor and Outdoor for Blind People” International Journal of Innovative Research in Science, Engineering and Technology, February 2014
- Vinoth Chakkaravarthy, GI. Jayandi, V.Sujitha and S.Mathangi “Schematization of bio- degradable waste in rural city of Tamil Nadu” International Journal of Creative Research Thoughts, Volume 6, Issue 2 April 2018 | ISSN: 2320-2882

- Vinoth Chakkaravarthy, GJ.Swathi, K.PriyaTharsini and S.Suganya Janani “Training and Placement Cell Application” International Research Journal of Engineering and Technology, Volume: 05 Issue: 03 | Mar-2018 e-ISSN: 2395-0056
- Vinoth Chakkaravarthy, Induja C, Kajal Shinde U, Shrinisha S “design, development and evaluation of a grading system for peeled pistachios” International Research Journal of Engineering and Technology, Volume: 05 Issue: 03 | Mar-2018 e-ISSN: 2395-0056
- Vinoth Chakkaravarthy, T.S.ShakthiPriya, V.Nandhini, S.Srishtti, “Auto – off water level sensing compressor ” Elysium Journal of Engineering Research And Management, April 2018, Volume-5, Issue-2. E-ISSN: 2347-4734
- Vinoth Chakkaravarthy, P. Jothimalar “ Smart Chair Tele-medicine Based Health Monitoring System” SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – Special Issue ICTER Mar 2019
- Vinoth Chakkaravarthy “Image Encryption for Secure Internet Transfer using DCT with Triple DES Algorithm”, International Journal of Innovative Research in Computer and Communication Engineering, Volume 8, Issue 5, May 2020

2. International Conference Presentation Details: 04

- Presented a paper titled "BLOCK CHAIN BASED KEY MANAGEMENT USING TREE BASED DATA PROCESSING ALGORITHM FOR VANET" in the International Conference on Science, Computers, Technology and Engineering (ICSCTE -2018) conducted by Shree Velagapudi Ramakrishna Memorial College , Andhra Pradesh, India on 26 th and 27 th October 2018.
- Presented a paper titled “An Integrated GIS and Knowledge based system for Precision Agriculture” in the International Conference on Recent Trends in Engineering, Computers, Information Technology and Applications (ICRTECITA - 2018) conducted by PSNA College of Engineering and Technology on 23rd March 2018.
- Presented a paper titled “Communication efficient distributed decentralized Key management framework for Message authentication in VANET” in the International Conference on Computer Networking and Communications (CNC) conducted by IDES on Feb 24th and 25th 2012 and the same is published in the “Springer Digital Library”
- Presented a paper titled “ Dynamic key management for reducing communication latency in group communication” G.VinothChakkaravarthy and Dr.P.Alli and R.Deepalakshmi “International Conference on Computers, communication and Intelligence” Organized by Velammal college of Engineering and Technology, July 22nd and 23rd 2010

3. National Conference Presentation Details:

- Vinoth Chakkaravarthy, G, Alli, P & Raja Lavanya 2016, ‘A cost effective decentralized subgroup key management framework for secure IPv6 multicast communications’, Conference proceedings of national conference on Research challenges in social, mobility, analytics and cloud (NCSMAC).
- “Dynamic key management for authentication in group communication” G.VinothChakkaravarthy , Krishna Kumar and Jai Sakthi Raman ,organized by Bannari Amman Institute of Technology, Sathyamangalam, on 9th and 10th April 2010.

4. Google Scholar report:

<https://scholar.google.com/citations?user=StAcZSIAAAAJ&hl=en>

5. Book / Book Chapter Publications details: 02

Title	Publishers	Year
IoT and WSN Applications for Modern Agricultural Advancements Title Chapter: An Integrated GIS and Knowledge-Based Automated Decision Support System for Precision Agriculture Using IoT	IGI – Global DOI: 10.4018/978-1-5225-9004-0.ch006	2019
C# AND .NET Programming	VSRD Publications, kanpur ISBN-13 : 978-93-87610-34-7	2019

Programs Organized:

- Organizing Secretary for Five day FDP on “**Next Generation Computing – Machine Intelligence**” from 17.08.2020 to 21.08.2020
- Organizing Secretary for workshop on “**Two day Hands on Session on Applied Machine Learning Practices in industry**” on 10.09.2020 and 11.09.2020
- Organizing Secretary for webinar on “**Exploring JAVA 8**” on 24.09.2020 and 25.09.2020.
- Organizing Secretary for webinar series on “**5 Days Webinar Series on Experience the Uncommon**” from 07.10.2020 to 11.10.2020.
- Organizing Secretary for webinar on “**COVID 19’s impact on CYBER SECURITY**” on 07.08.2020
- Organizing Secretary for webinar on “**Carrier options and Road Map for placement in MNC**” on 15.09.2020.

- Organizing Secretary for webinar on “**Online Assessment Tools**” on 01.08.2020.
- Organizing Secretary for **ISTE National level Interdisciplinary Project Competition -3IDIOTS 2018-on 16-March-2018**
- Organizing Secretary for two days **Two day Workshop on “Android Technologies” between 24-Feb-2018 and 25-Feb-2018**. The resource person is Mr.Santhosh Vijaya Baskar, Senior Software Consultant, Fidelity Investments, Chennai
- Staff Coordinator for the “**Interactive Session on Research Scopes in Computer Science and Engineering**” on 23-11.2017. The resource person is Dr.P.ShanthiThilagam, Associate Professor and HOD /CSE, NIT-Surathkal.
- Organizing Secretary for one day workshop on “ **Mongo -DB**” on 16th September 2017. The resource person is Mr.Santhosh Vijaya Baskar, Senior Software Consultant, Fidelity Investments, Chennai
- Organizing Secretary for oneday National Seminar on “**Knowledge Discovery: best practices with WEKA**” on 29th September 2012.
- Organizing Secretary for One day workshop on “**Network Simulator-2**” on 19th January 2012.

Membership : CSI, ACM

Additional Courses: CCNA (Instructor course).