Name of Faculty **Dr.Vinodh Kumar Minchula** Associate Professor Designation Date of Joining 16th Feb 2021 vinodhkumarm_ece@cbit.ac.in E-mail vinodh.edu@gmail.com **Education Qualifications** Name of the Degree Class Awarded Doctor of Philosophy (ECE) Ph.D. (Regular Full Time) Andhra University (UGC NRF) M.Tech (Communication Engineering) Distinction PG VIT University (University 3rd Rank) B.E (ECE) UG First Anna University Diploma in Japanese Language Distinction Other (Foreign Language) 13yr 9m Work Experience 11yr 4m Teaching 2yr 5m (UGC JRF & SRF) Research Industry Others Wireless Communications and Signal processing (LTE-OFDM, mmWave MIMO, Area of Specialization Channel modelling, 5G sub 6GHz Antenna design etc.) i. Senior Member of IEEE (SM- 93979993) since 2021, USA. Member of IEEE (M- 93979993) since 2019, USA. Graduate Student Member of IEEE (GSM- 93979993) since 2016, USA. Life Fellow Member of IETE (F-502564), INDIA. Life Member of Sakura Science Club (SSP ID: 17104180), Japan Science & Technology, Japan since 2017. Life Member of Institution of Engineers, INDIA. vii. Member of IEEE Young Professionals since 2016, USA. Member of IEEE Communication Society since 2016, USA Member of IEEE Information Theory Society since 2016, USA. **Professional Memberships** Member of IEEE Signal Processing Society since 2018, USA. Member of IEEE Microwave Theory and Techniques Society since 2021, USA. xii. Member of IAENG (International Association of Engineers) since 2018. Senior Member of IRED (20210711178 The Institute of Research Engineers and Doctors), NY USA. xiv. Alumnus of AFS (American Field Service) is an international youth exchange organization AFS Japan & AFS INDIA since 2022. Alumnus of CSSTEAP (Centre for Space Science and Technology Education in Asia and the Pacific) Affiliated to the United Nations since 2014. Alumnus of VIT Alumni Association since 2009 (07MCE023). Coordination Committee member for NAAC peer team visit on 24th & 25th May 2022. Member in NAAC mock team and audited the CSE and EEE departments on 9th May 2022. NAAC SSR 2022-23 R&D Committee Core member Responsibilities held at Institution Industrial academic SPOC for TCS Tech. Business Unit in conducting TCS industrial telecom projects to TCS selects from four major departments (ECE, CSE, Level EEE, IT) for the year 2014-15 & 2015-16 at MVGR College of Engg.(A). v. Central level Training & Placement Coordinator for at MVGR College of Engg.(A) vi. Nominated as Vice President (3rd time) for Toyama Sakura Club of Andhra University Jointly formed by Toyama prefecture, Japan & Andhra University, Andhra Pradesh, INDIA. Dept. Research Coordinator.

Responsibilities held at Department

Level

CBIT.

Scientific staff member, Navigation & Communication Research Centre (NCRC) of

iii. In-charge of Green Opto Nano Energy Lab (DST funded Lab).

iv. Chairman, Communications-Course Expert Group.v. Member, RF & Microwave Course Expert Group.

- vi. Member, N/W, Instrumentation and Controls Course Expert Group.
- vii. Member, Seminars, Project and Internships Course Expert Group.
- viii. Member, M.E (CE) Communications Course Expert Group.

Research Guidance

Guided 6 M.E Projects

- i. Received "International Scholarship Award" Japan-East Asia Network of Exchange for Students and Youths (JENESYS) - 2021 program from Ministry of Foreign Affairs Japan, initiative from Government of Japan under 70th Anniversary of JAPAN INDIA friendship ties program 2022 and is facilitated by AFS intercultural program Japan & India in year 2022
- ii. Received Best research paper award in ICAESCT-2022 (AICTE sponsored)
- iii. Received "International Fellowship in Japan"-Asia youth exchange program in science under Sakura Science program sponsored by Japan Science and Technology, Japan in year 2017-18.
- iv. Received "UGC-National Research Fellowship" for 5 years under UGC- NFOBC, Govt. of INDIA in the year 2016-17.
- Received "Medal of Honor" for PhD in 5G Communications from Andhra University presented by correspondent MANSAS, principal MVGR college of Engineering (A) in 2019.
- vi. Received "University rank 3rd" for Academic Excellence in M.Tech with a GPA of 9.04 from VIT University Vellore in year 2009.
- vii. Received "Merit Scholarship" in M.Tech 1st year for GPA of 9.19 VIT
- viii. University Vellore in year 2008.

5G Communication, Mobile Cellular Communication, Satellite Communication, Optical Communication, Network Theory, Digital Data Communications, Radar Systems, Communications, Digital Communications, Computer networks, Telecommunication switching systems and networks, Professional Ethics and Human values, Analog Communication Lab, Digital Communication lab, Communication and Signal processing lab Microwave and Optical communication lab.

Orcid: https://orcid.org/%200000-0002-9042-6413

Scopus: https://www.scopus.com/authid/detail.uri?authorId=5720145

Publon: https://publons.com/researcher/2062342/drvinodh-minchulakumar/

Google Scholar:

https://scholar.google.co.in/citations?user=Cr2YdKYAAAAJ&hl=en LinkedIn: https://www.linkedin.com/in/dr-vinodh-kumar-m/

National Journals -

International Journals – 16

National Conference - 02

International Conference - 08

Sponsored R&D Projects

Principal Investigator of the recently sanctioned DST, SERB project titled "Machine Learning based Intelligent Indian vehicle network with Relay assisted mmWave BS system for 5G NR-V2X communications" under SURE Scheme. The total funding of the project is Rs.21 Lakhs (approximately) for a duration of 3 years (2023-2026).

Technology Transfer

- i. A Technical session for 40 Indian Navy personnel under AU-Defense R&D program to Naval HQ Wireless Equipment unit, Visakhapatnam in 2019.
- ii. A Lecture on "Laser properties & limitation with longitudinal and transverse modes experimental demonstration" on 02-04-2019 organized by MRPG college, Vizianagaram.
- iii. Reviewer & Technical Program Committee (Associate Editor) of International Journal of Electrical and Computer Engineering (Scopus Journal)-2021
- iv. Reviewer of Elsvier ICT express, PIER.Journal, IEI: Series B journal
- v. Reviewer of various IEEE conferences.

No. of Books/Chapter Published with details

SI. No.	Name of Authors	Reference details of book chapter and the book in which this appears	Name of the publisher & ISSN/ISBN	Page Nos.
1.	Dr.Vinodh Kumar	Chapter title-" Performance analysis of Multiple		
	Minchula,	Antenna Systems with New Capacity Improvement		19-35
	Sr. Prof G.	Algorithm for MIMO based 4G/5G Systems",	978-1-83968-	
	Sasibhushana rao	Book title- "Antenna Systems", Editor Prof.	829-4	2022

Awards Received

Courses Handled at Under Graduate / Post Graduate Level.

No. of Papers Published

Research IDs/Links:

Patents

Invited Speaker

		Hussain Al-Rizzo, Intech Open		
2.	Dr.Vinodh Kumar	Chapter title-" Investigation of SAC Channel		
	Minchula,	Effects on MIMO System Capacity and Optimal	978-1-80356-	doi:
	Sr. Prof G.	coherence distance estimation under different	168-4	10.5772/intechopen.106865
	Sasibhushana rao	Angular Dispersions for Next-Gen Networks",		-
		Book title- "5G and 6G Enhanced Broadband		
		Communications", Editor Dr. Isiaka Alimi and Dr.		
		Jide Popoola, Intech Open		
		https://www.intechopen.com/online-first/83598		

- One Week National Level Online STTP III on "Trends and Challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication", 14-19th Sep 2020 organized by VR SIDDHARTHA ENGINEERING COLLEGE, Vijayawada, AP
- One Week National Level Online STTP IV on "AI-MIMO Millimeter (mm) Wave And Massive MIMO Applications For 5G Wireless Networks Using AI", 26th Apr-1st May 2021 organized by GRIET, Hyderabad.
- One Week National Level Online STTP III on "Trends and Challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication", 14-19th Sep 2020 organized by VR SIDDHARTHA ENGINEERING COLLEGE, Vijayawada, AP.
- One Week AICTE Training And Learning (ATAL) Academy Online FDP on "Design thinking", 7-11th Sep 2020 organized by College of Engineering Trivandrum.
- Two-week Online Faculty Development Programme on "Demystifying 5G RF ASICs", 24th Aug to 4th Sep 2020 organized by Electronics and ICT Academies, Indian Institute of Technology Guwahati.
- AICTE Sponsored One Week Online Short Term Training Program(STTP- II)
 On "Electromagnetics, Microwave, RF & Antenna Design Using Ansys HFSS",
 24-29th Aug 2020 organized by Shri Vishnu Engineering college for
 women, Bhimavaram.
- One week AICTE-MHRD sponsored online STTP phase II on "Design of Miniature Antenna for 5G and IoT Applications", 10-15th Aug 2020 organized by MVGRCE, Vizianagaram.
- AICTE Sponsored One Week Online Short Term Training Program(STTP- I)
 On Trends and Challenges in Design and Implementation of Reconfigurable
 Antennas for Increased Spectrum Access in Cognitive Radio Communication",
 20-25th Jul 2020 organized by VR SIDDHARTHA ENGINEERING
 COLLEGE, VIJAYAWADA, AP.
- 9. Five day online STC on "Antenna Design Techniques and software Simulations using HFSS", 13-17th Jul 2020 organized by ECE NITTTR, Chandigarh.
- 10. One month Online Industrial Internship on RF & Antenna Design Using ANSYS HFSS, 22nd Jun–14th Jul 2020 organized by Entuple technologies in association with ANSYS, IEEE Bangalore section, MTTS.
- Five day online AICTE-MHRD sponsored online STTP Phase I on "Design and Simulation of Miniature Antenna for IOT Applications", 29th Jun- 4th Jul 2020 organized by MVGRCE, Vizianagaram.
- Three day online FDP on RF Design/VNA & Its Applications, 16-18th Jun 2020 organized by Entuple & Anritsu
- 13. Web of Science Journal Citation Reports South Asia Training & Certification Program 2020, 5th,12th,25th & 27th May 2020 organized by Web of Science-Clarivate Analytics company
- Five day online FDP on Design Thinking, 01-05th Jun 2020 organized by MITS School of Business, Madanapalle.
- 15. One week AICTE-MHRD sponsored online FDP on Evaluation & Setting of Question Papers 25-29th May 2020 organized by NITTTR, Chandigarh.
- 16. Five day online FDP on Technological Interventions Using Wireless communication, 18-22th May 2020 organized by NITTTR, Chandigarh.
- 17. One week online FDP on "OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE" under Margdarshan Scheme of AICTE, New Delhi during 11-15th May 2020 organized by Government College of Engineering, Karad.
- 18. One week National FDP training on Latex, 27th Apr to 2nd May 2020 organized by Spoken tutorials Project IIT Bombay, Sanjay Ghodawat University.
- 19. One week short course on Massive MIMO Cooperative Communication and Cognitive Radio for 5G, 6-11th Jan 2020 organized by Department of Electrical Engineering, IIT Kanpur in association with ECE department Andhra University.

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Oth er Trainings (Attended and/or Organized).

- 20. Participated in IEEE workshop on Channel Coding in 5G, 24th & 25th Aug 2019 organized by IEEE Hyderabad section at MVGRCE.
- 21. One week Electronics and ICT Acadamy FDP on ARTIFICIAL NEURAL NETWORKS AND DEEP LEARING, 3-8th Jun 2019 organized by E&ICT Academy, NIT Warangal at MVGRCE.
- 22. Short course on MU-MIMO, Massive MIMO and OFDM Technologies for 5G Networks, 27-30th Mar 2019 organized by Department of Electrical Engineering, IIT Kanpur.

Octails of FDPs/STTPs/Workshops/Seminars/Other Training Event	Host	Duration
		(Days)
INGR Webinar Series: Advanced Solutions for 5G and Beyond Satellite Systems	IEEE Future Network	15-12-2021
2021 IEEE Global Communications Conference	IEEE Communication Society	07-12-21 to 11-12-21
RECENT TRENDS IN ANTENNA DESIGN AND APPLICATIONS	E&ICT Academy, NIT Warangal in association with Vasavi College of Engineering	06-12-21 to 15-12-21
International conference on High Performance Big Data and Intelligent Systems (Physical & Online)	IEEE Computer Society, Macau China	05-12-21 to 07-12-21
Wireless Networks Operating in Terahertz Frequencies: What are the Challenges	IEEE PDH Continuing Education	03-12-2021
NeTS-VO panel with Ana Garcia Armada, Shalinee Kishore, Angel Lozano and Ted Rappaport on "Future Directions for Communications Engineers."	NeTS-VO future directions for Communication Engineers	18-11-2021
Performance analysis of RF system using SystemVue tools	Department of ECE in association Vasavi College of Engg.(A) with Keysight Technologies, Hyderabad	07-10-21 to 09-10-21
Swedish 6G workshop 2021 - 6G for Society	Sweden Section Jt. Chapter IEEE	06-10-21 to 07-10-21
5G-AI-IoT: Technology Convergence	IEI	26-09-2021
RF Propagation, Ray Tracing and Wireless Scenario Modeling in MATLAB	MathWorks Webinars	21-09-2021
Silicon-Based Millimeter-Wave Phased Arrays for 5G: Fundamentals to Future Trends, IEEE MTTS webinar	Buffalo Section Jt Chapter,AP03/MTT17 Buffalo Section, Buffalo, New York United States	Start time: 18 Sep 2021 12:00 PM End time: 18 Sep 2021 02:30 PM
SPS Seasonal School on Signal Processing and Communication Systems for 5G	Long Island Section Chapter,SP01 Vizag Bay Section Jt. Chapter,COM19/SP01 Finland Section Jt. Chapter, SP01/CAS04	13-09-21 to 18-09-21
IEEE MTT-S online Workshop on ADVANCES IN MICROWAVES AND ANTENNA TECHNOLOGY	Department of Electronics and Communication Engineering, at MJCET	11-09-21 to 13-09-21
IEEE MTT-S one-week online Workshop on "Design and Analysis of Advanced Antenna Systems"	Department of Electronics and Communication Engineering, at Vardhaman College of Engineering	23-08-21 to 28-08-21
IEEE Authorship and Open Access Symposium: Best Practices to Get Published to Increase the Exposure and Impact of Your Research	IEEE Team	26-08-2021
Wireless Over-the-Air Testing using SDRs	MathWorks Webinars	25-08-2021 1 Hour
Recent Trends in Nanotechnology and Signal Processing	Dept. of ECE, GMRIT, Rajam, AP	23-08-21 to 29-08-21

Sparklers Summit 2021	IEEE Region 10(Asia-Pacific) Young Professionals	07-08-2021 & 14-08-2021
Master Class Ep 1 Guidance on Recruitment process of Servicenow	IEEE student branch, R & D Cell of CBIT	31-07-2021
Study and Work in Japan Session 16	Ministry of education culture sports science and technology (MEXT), Japan	25-07-2021
Study and Work in Japan Session 15	Ministry of education culture sports science and technology (MEXT), Japan	24-07-2021
INGR Webinar Series: Roadmap Towards Federated Testbeds for Future Networks	IEEE Future Networks webinar series	21-07-2021
Hands on Workshop patents, copyrights and trademarks	organised by ACIC-CBIT and IIC- CBIT	17-07-2021
Study and Work in Japan Session 14	Ministry of education culture sports science and technology (MEXT), Japan	18-07-2021
Study and Work in Japan Session 13	Ministry of education culture sports science and technology (MEXT), Japan	17-07-2021
Asia Tech x Singapore (ATxSG)	virtual event	14-07-21 to 16-07-21
Elsevier Scopus Integrating Scopus in Research Workflow	Dr Shubhra Dutta, Customer Consultant, Elsevier	14-07-2021
IOT–5G AN <mark>D BEYO</mark> ND WITH DEEP LEARNING:DEMO <mark>NSTRA</mark> TIONS AND HANDS-ON TRAINING	MAHINDRA UNIVERSITY ECOLE CENTRALE SCHOOL OF ENGINEERING HYDERABAD	07-07-21 to 11-07-21
TCA Recommended 5G SIM: Unlocking the full potential of 5G networks	TCA	08-07-2021
Essentials of Academic Research Tools in Paper Writing	PACE Institute of Technology & Sciences (Autonomous), Ongole. A.P, India	08-07-2021
Study and Work in Japan Session 10	Ministry of education culture sports science and technology (MEXT), Japan	03-07-2021
Study and Work in Japan Session 9	Ministry of education culture sports science and technology (MEXT), Japan	02-07-2021
AICTE-Quality Initiative Schemes	AICTE	02-07-2021
5G Standalone: Why, How, and How Fast?	The Light Reading team	30-06-2021
Keysights Virtual 5G Innovations Day 1: EMULATE ANY PART OF O-RAN Day 2: MAXIMIZE 5G PERFORMANCE	Online Live event	29-06-21 to 30-06-21
AWS Village at Mobile World Congress	Online Live event	28-06-21 to 01-07-21
2nd Alumni Meeting (on-line) of the Sakura Science Club Alumni Association	Sakura Science Club Alumni Association, Japan	26-06-2021
SPS webinar Learning the MMSE Channel Estimator	IEEE Signal Processing Society	24-06-2021
Webinar on "Entrepreneurship & Career Opportunities"	Department of Mechanical Engineering in association with IIC	21-06-2021
The Digital Dialogues on occasion of World Wi-Fi Day	Broadband India Forum	18-06-2021
Meet the ComSoc Leaders Networking session with various experts and leaders from IEEE Communications Society	Virtual / Montreal, Special sessions at ICC 2021 IEEE ComSoc YP	23-06-2021
22 June 12 PM EST Present Your Science Melissa Marshall, TED Speaker	Virtual / Montreal, Special sessions at ICC 2021 IEEE ComSoc YP	22-06-2021

21 June 12 PM EST Meet the Engineers Lola Awonity-Oteri, Principal Engineer, Qualcomm Anna Zakrzewska, Principal Engineer, Dell Technologies	Virtual / Montreal, Special sessions at ICC 2021 IEEE ComSoc YP	21-06-2021
18 June 12 PM EST Fireside Chat with Ted Rappaport and Robert Heath Ted Rappaport, NYU Wireless Robert Heath Jr., NC State University	Virtual / Montreal, Special sessions at ICC 2021 IEEE ComSoc YP	18-06-2021
17 June 12 PM EST Planning your research with Public Organizations Deep Medhi, Program Manager, National Science Foundation Tom Rondeau, Program Manager, DARPA Andrzej Jajszczyk, Vice President, European Research Council	Virtual / Montreal, Special sessions at ICC 2021 IEEE ComSoc YP	17-06-2021
16 June 12 PM EST Early Career Faculty Applications: Best Practices Yasaman Ghasempour, Assistant Professor, Princeton University Stefan Schwarz, Assistant Professor, TU Vienna Francesco Restuccia, Assistant Professor, Northeastern University	Virtual / Montreal, Special sessions at ICC 2021 IEEE ComSoc YP	16-06-2021
15 June 12 PM EST What starts here changes the world of communications Xingqin Lin, Master Researcher, Ericsson Selina Milstam, VP & Global head of talent, Ericsson	Virtual / Montreal, Special sessions at ICC 2021 IEEE ComSoc YP	15-06-2021
Five day online FDP on "Challenges & Advances in Communication System for 5G"	LBRCE, AP	14-06-21 to 18-06-21
3rd Indian Sakura Science Alumni Meet (On-line)–2021	Sakura Science Club, Japan	29-05-2021
Study and Work in Japan Session 3	Ministry of education culture sports science and technology (MEXT), Japan	21-05-2021
Talk on Magic of Motivational Leadership	AICTE on 360 Degree Feedback	28-04-2021

Details of FDPs/STTPs/Workshops/Seminars/Other Training Programs attended in the AY: 2022-23

Event	Host	Duration (Days)
Fast Solvers for Electromagnetics-Based Analysis and Design of Integrated Circuits and Systems	TEC IEEE MTTS PDH	09-08-2022
5G Wireless Communication Technology	nication Technology IEEE India Council	
Keysight 5G Technology Conclave India 2022	Avasa Hotel, Hyderabad	27-07-2022
Advanced Solutions for 6G Satellite Systems	7 9 IEEE Future Network	19-07-22 to 21- 07-22
SSP Online University Visit - Hokkaido University	Sakura Science Exchange Program, Japan Scienece and technology	16-07-2022
Accelerate automotive ADAS validation with hardware-in- the-loop radar testing	Rohde & Schwarz	13-07-2022
Ensure Base Station Conformance with 5G NR Rel 16	Keysight	19-05-2022
Matlab Expo 2022	Math Works	17-05-22 & 18- 05-22
East Africa Com 2022	5G Events	10-05-22 & 11- 05-22

Scope for Interdisciplinary Research	Research & Development Centre and Department of Information Technology, Chaitanya Bharathi Institute of Technology (A), Hyderabad	06-05-2022
IEEE Faculty Conclave	AP/MTT-S joint chapter, Bangalore	01-05-2022
Two days Faculty In-house training program	CBIT	23-04-22 & 30 04-22
A Framework of Robust Transmission Design for IRS- Aided MISO Communications with Imperfect Cascaded Channels	IEEE SPS	27-04-2022
Advanced Testing of 5G mmWave RF Systems	Rohde & Schwarz	26-04-2022
Model-Driven Deep Learning for MIMO Detection	IEEE SPS	12-04-2022
How Technical Standards Shape My Career	IEEE Virtual Events	08-04-2022
Modeling and Simulating Otava mmWave Beamformer IC	MathWorks, online	29-03-2022
Japan-East Asia Network of Exchange for Students and Youths (JENESYS) - 2021 program	Ministry of Foreign Affairs Japan, initiative from Government of Japan under 70th Anniversary of JAPAN INDIA friendship ties program 2022	27-02-22 to 0 03-22
2nd Japan-ASEAN Multi-Stakeholder Strategic Consultancy Forum on the theme of: Sustainable Water Resource Management	Department of Science and Technology (the Philippines), Ministry of Education, Culture, Sports. Science and Technology (Japan), Japan Science and Technology Agency (Japan)	21-02-22 to 2 02-22
IETE Knowledge sha <mark>ring sess</mark> ion "Digital document analysis applued to palm leaf character recognition"	IETE Hyderabad centre	20-02-2022
Wireless Over-the-Air Testing using SDRs	MathWorks Webinars	16-02-2022
IEEE FNI Webinar Series: How 6G is Reshaping the 5G World	IEEE Future Network	16-02-2022
Brainstorming and Bootstrapping a Startup by Sri. Kalyan Gudladana	Coordinated the webinar of R&D Centre and ECE Department CBIT(A)	12-02-2022
Virtual IEEE Future Networks Testbed Requirements, Challenges, and Opportunities Workshop	IEEE Future Network	07-02-22 to 0 02-22
IEEE SPS SAM TC Webinar on "Signal Processing for THz Communications"- Sundeep Rangan	IEEE Signal Processing Society	27-01-2022
Technology Enablers for 21st Century Applications in mm- wave Communications and Nanomedicine	IEEE Continuing Education	11-01-2022
npers published in International Journals	79	

Sl. No.	Complete reference details of the paper (names, paper title, issue etc.)	ISSN/ISBN/DOI	Publishing group [(like Elsevier, Springer, IEEE etc)]	Page Nos.
1.	Dr.Vinodh Kumar Minchula et.al. "Characterization of Proposed Iterative Hyperbolic Localization Solution using Statistical Studies", Vol. 70, Issue. 6, 2022 10.14445/22315381/IJETT-V70I6P223	E-ISSN: 2231-5381 P-ISSN: 2349-0918	SCOPUS INDEXED & UGC CARE, Q4 SSRG International Journal of Engineering Trends and Technology, SJR 0.14 Cite score 1.1	pp. 209- 220
2.	Dr.Vinodh Kumar Minchula et.al. "Evaluating the Efficiency of Non-Orthogonal MU-MIMO Methods in Smart Cities Technologies & 5G Communication". 2022, 15, 236. https://doi.org/10.3390/su15010236	ISSN: 2071-1050 (Print), ISSN: 1937- 0695.	MDPI SCIE & Scopus Indexed, UGC Care – Q1 Sustainability SJR 0.664, Impact Factor 3.899, Cite score 5.7	1-13

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3.	Dr.Vinodh Kumar Minchula et.al. "Applying ML enabled Myriad Fragment Empirical modes in 5G Communications to Detect Profile Injection Attacks". Wireless Networks (2023). https://doi.org/10.1007/s11276-023-03301-z	ISSN: 1022-0038 E-ISSN:1572-8196	Springer SCIE & Scopus Indexed - Q2 Wireless Networks - The Journal of Mobile Communication, Computation and Information SJR 0.657, Cite score 4.3, Impact Factor 2.71	1-14
4.	Dr.Vinodh Kumar Minchula et.al. "MaReSPS for Energy Efficient Spectral Precoding Technique in Large Scale MIMO-OFDM", Physical Communication, 2023, 102057, ISSN 1874-4907 https://doi.org/10.1016/j.phycom.2023.102057.	ISSN:1874-4907 Article-in-press, Journal Pre-Proof	Elsevier & SCIE, Scopus, Q2 Physical Communication, SJR 0.614, Cite score 4.1, Impact Factor 2.379	Available online 21st March 2023
5.	Dr. Vinodh Kumar Minchula et.al. "IoT-Enabled Wireless Sensor Networks for Controlled and Safe Routing" Vol. 12, Issue 2, 2021	ISSN: 2008-8019	Thomson Reuters Indexed (ISI) Journal International Journal of Aquatic Science,	pp. 1712- 1718
6.	Dr.Vinodh Kumar Minchula et.al. "Performance Analysis of Real-Time SDR OFDM System". Vol. 15, Issue 9, 2021	ISSN:1001-2400	UGC care Journal Xi'an Dianzi Keji Daxue Xuebao/Journal of Xidian University	pp. 434- 439
7.	Vinodh Kumar Minchula, G. Sasibhushana Rao, "SVD-based IWFA for next generation wireless MIMO communication" Vol. 4, Issue 3, 2018	ISSN 2405-9595	Elsevier & SCIE, Scopus, Korea Citation Index Q1 Information & Communication Technology Express, published by the Korean Institute of Communications and Information Sciences (KICS), SJR 1.398, cit score 9.9, Impact Factor 4.754	pp. 171- 174
8.	Vinodh Kumar Minchula, G. Sasibhushana Rao, Ch Vijay, "SAC channel effects on MIMO wireless system Capacity", Vol. 521, 2019	ISSN:1876-1100 E-ISSN:1876-1119	Springer & Scopus Indexed Q4 Microelectronics, Electromagnetics and Telecommunications. Lecture Notes in Electrical Engineering,	pp. 759- 765
9.	Ch Vijay, G. Sasibhushana Rao, Vinodh Kumar Minchula*, "Carrier Frequency Offset impact on LTE-OFDM systems", Vol. 521, 2019 * Corresponding Author	ISSN:1876-1100 E-ISSN:1876-1119	Springer & Scopus Indexed Q4 Microelectronics, Electromagnetics and Telecommunications. Lecture Notes in Electrical Engineering	pp. 401- 408
10.	Vinodh Kumar Minchula, G. Sasibhushana Rao, Ch Vijay, "Multi-Antenna system Performance under ICSIT and ICSIR channel conditions", Vol. 695, 2018	ISSN: 2194-5357	Springer & Scopus Indexed upto 2021. Published in 2018 Q4 till Sep 2021* Scimago list attached as proof Intelligent Engineering Informatics. Advances in Intelligent Systems and Computing,	pp. 505- 511
11.	Ch Vijay, G. Sasibhushana Rao, Vinodh Kumar Minchula*, Investigation of Optimal Cyclic Prefix length for 4G fading channel", Vol. 695, 2018 * Corresponding Author	ISSN: 2194-5357	Springer & Scopus Indexed upto 2021. Published in 2018 Q4 till Sep 2021* Scimago list attached as proof	pp. 429- 435

			Intelligent Engineering Informatics. Advances in Intelligent Systems and	
12.	Y Merlin, Minchula Vinodh Kumar "High- Performance of Domino Logic Circuit for Wide Fan- In Gates Using Mentor Graphics Tools", Volume 5, Issue 6, 2015	e-ISSN: 2319 – 4200, p-ISSN No.: 2319 – 4197 DOI: 10.9790/4200- 05620615	Computing, UGC Care Journal IOSR Journal of VLSI and Signal Processing,	pp. 06-15
13.	Md.Rameez, M.Vinodh Kumar, "Pipelined processor with reduced hardware overhead", Volume 5, Issue 4, 2014	IJECT/54/1/A-240 ISSN: 2230 – 7109 (Online) ISSN: 2230 – 9543 (Print)	International Journal of Electronics & Communication Technology	pp. 18-22
14.	Giddi Srinivasa rao, M. Vinod Kumar "Leakage Power Reduction in CMOS Circuits Using Leakage Controlled PMOS Technique in Nano Scale", Volume 4, Issue 3, 2013	IJECT/43/1/C-788 ISSN: 2230 – 7109 (Online) ISSN: 2230 – 9543 (Print)	International Journal of Electronics & Communication Technology	pp. 83-87
15.	M. Vinodh Kumar, K. Pruthvi Raj, Md. Amina Tabassum "Design and Fabrication of Meander Line Antennas for WLAN and Dual Band Applications", Volume 4, Issue 3, 2013	ISSN(Online):2249- 071X	International Journal of Electronics Communication and Computer Engineering	pp. 688- 691
16.	Ch.Suryanarayana Implementation of Open Core Protocol for the On-Chip Bus",2012	ISSN 0975 - 9646	International Journal of Computer Science and Information Technologies	pp. 4275 - 4278

Papers published in Conferences (National or International)

	Complete reference	ISSN/ISBN/DOI			
Sl.	details of the paper		Name of the	Conference	Date
No.	(names, paper title,		Conference	organized by	/
	issue etc.)				
	Analysis of Spatial	9789356803497	AICTE sponsored	ANITS	4th & 5th Nov
	Antenna Correlated		International	Visakhapatnam	2022
	Channel Effects for		Conference on		
1.	MIMO system		Advancement in		
1.	capacity		Electronic Systems		
	INIST	TITUTE (and Communication	JOLOGY	
	Received Best		Technologies	CLOGI	
	Research paper		(ICAESCT-2022)		
	award				<i>y</i>
	Design of Y-shaped	Scopus Springer	5th International	ECE, MNIT	14th -16th Oct
2.	multiband antenna	Conference	Conference on VLSI,	Allahabad	2022
2.	using the parametric	0.5	Communication and		
	approach for wireless		Signal processing		
	networks		1070		
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