

Curriculum Vitae

Prof. Dr. PERUMALLA NAVEEN KUMAR

Professor

BE(ECE) M.Tech(ECE) Ph.D(ECE) Specialization : Global and Regional Navigation
Satellite Systems, GPS, Indian NavIC and GAGAN



Email : drnaveenkumarp9@gmail.com

Mobile : 9985701254

Office

Department of Electronics & Communication
Engineering, University College of Engineering,
Osmania University, Hyderabad, Telangana -
500007

Home

H.No: 3-16-8, Nehru Nagar, Ramanthapur,
Hyderabad, Telangana- 500013

Education

S.No	Degree	Year	Subject	University/Institution
1	B.E	1999	Electronics & Communication Engineering	Osmania University, Hyderabad, Telangana, India
2	M.Tech	2003	Electronics & Communication Engineering (DSCE)	Jawaharlal Nehru Technological University, Hyderabad, India
3	Ph.D	2014	Electronics & Communication Engineering (GPS and GAGAN)	Osmania University, Hyderabad, Telangana, India

Work Experience - 22 years

S. No	Positions Held	Name of the Institute	From	To
1	Professor	Dept. of ECE, University College of Engg., Osmania University,	11-06-2018	Till date

		Hyderabad,Telangana, INDIA		
2	Associate Professor	Dept. of ECE, University College of Engg., Osmania University, Hyderabad, Telangana, INDIA	11-06-2015	10-06-2018
3	Assistant Professor	Dept. of ECE, University College of Engg., Osmania University, Hyderabad,Telangana, INDIA	11-06-2007	10-06-2015
4	Assistant Professor	Dept. of ECE, MVSR Engineering College, Hyderabad, INDIA	01-03- 2000	10-06-2007
5	Engineer	M/s Electronics and Controls Power Systems Limited, Sec'bad., INDIA	01-05- 1999	29-02-2000

Research

Fellowship

1.Fellow of Institution of Electronics and Telecommunication Engineers, India

Projects

S.No.	Title	Duration	Cost(in Lakhs in Indian Rupees)	Funding Agency	Brief Achievements
1	Investigation of Atmospheric Effects on Future Ground Based Augmentation for GPS System.	2010-2013 (3 Years)	34.33	Dept. of Science and Technology (DST), Govt. of India	Successfully Completed , (Co-Principal Investigator) Published work in refereed Journals/Conferen ces.
2	Investigation of Ionospheric Total	2015-2016 (1 Year)	1.00	World Bank funded Project ,	Successfully Completed

	Electron Content using Single Frequency GPS receiver data for low-latitude			Technical Education Quality Improvement Program (TEQIP)-Phase-II,UCE,OU, India	(Principal Investigator) Published work in National and International Conferences.
3	Investigation & analysis of Ionospheric Time Delay Effects using NavIC data for Civilian Navigation Applications	2017-2020 (3 Years)	19.81	Space Application Center, Indian Space Research Organization (ISRO), Dept. of Space, Govt. of India, India	Successfully Completed (Principal Investigator) Published work in refereed Journals/Conferences.
4	IRNSS Navigation Receiver Field Trail and data collection	15-09-2016 to 14-09-2021 (5 Years)	56 Lakhs	MoU project between Osmania University and Space Application Center , Indian Space Research Organization (ISRO), Dept. of Space, Govt. of India, India.	In Progress (Principal Investigator) Published work in refereed Journals/Conferences.

Ph.D. Scholars under my Guidance

S.No	Project Title	Roll No	Student Name	Status
1	Investigation & analysis of Ionospheric Time Delay Effects at	100520174030	D. Kavitha	Full time (Pipeline in

	low latitude region for Civilian Navigation Applications			submission of Thesis) (ISRO Project JRF)
2	Investigation of Interoperability of IRNSS with Other GNSS under Various Conditions for Future Civilian Navigation Applications	100520174045	N. Santhosh	Full time (Pipeline in submission of Thesis) (CSIR Fellowship)
3	Navigation Parameters Enhancement Techniques Using Multi Constellation Satellite Signals	100520174062	Devadas Kuna	Full time (Pipeline in submission of Thesis) (UGC SRF Fellowship)
4	Investigation of methods for improving the performance of modern navigation systems in India	10052017404	Madhu Krishna	Part time
5	Performance analysis of Indian Regional Navigation Satellite System (IRNSS) and Development of Error Mitigation Techniques	10052017431	T. Sridhar	Part time
6	Investigation of various methods for improvement in position using NavIC/GNSS data over Indian subcontinent	100520174074	R Anil Kumar	Full time (RGNF FELLOWSHIP)
7	Evaluation of the Performance of Satellite Navigation signals in the context of marine environments	10052018401	R.P. Naraiah	Full Time
8	GNSS/IRNSS	10020184061	S. Srikanth	Full Time
9	Investigation of Ionospheric Scintillation using GNSS/IRNSS data over Indian region	100520184062	G.Chandra Shekar	Full Time
10	Investigation of performance improvement of GNSS/IRNSS for	100520184064	S.Krishna	Full Time

	civilian navigation Applications			
11	GNSS/IRNSS	100520194001	N. Koteswara Rao	Part time

Seminars Organized

S.No.	Details	Year
1	Organized a Short-Term Course on “Hardware and Software aspects of Computers” at Dept. of ECE, Osmania University, as a part of Community Service Development Program.	October 2008
2	Organized an Intensive Course on “PC Assembling and Maintenance” at Dept. of ECE, Osmania University, as a part of Community Service Development Program.	March 2008
3	Organized a IEEE workshop on “GNSS and its Applications”, at Dept. of ECE, Osmania University, as a part of Community Service Development Program.	19 th October 2016
4	Organized One-week FDP Training program on “Principles of GNSS, Applications and Research Areas” at Advanced GNSS Research Laboratory (AGRL), Department of ECE, University College of Engineering(A), Osmania University	4 th -9 th June 2018
5	Organized One day seminar on “Research Methodologies and Opportunities in Communication Engineering” at ECE, University College of Engineering(A), Osmania University	25 th April 2018
6	Organized One day seminar on “Acquisition of GNSS signals”, at ECE, University College of Engineering(A),	9 th September 2019

	Osmania University	
7	Organized One day seminar on “Single frequency GNSS Receiver”, at Department of ECE, University College of Engineering(A), Osmania University	9 th November 2019
8	Organized One day seminar on “Decode Your career” at Department of ECE, University College of Engineering(A), Osmania University	4 th September 2019
9	Organized Guest lecture on “Near Earth Space: Challenges and Achievements”, at ECE, University College of Engineering(A), Osmania University	24 th February 2020
10	Organized Guest lecture on “Challenges in the Development of Scientific Payloads for Space Mission: Lessons Learnt” at ECE, University College of Engineering(A), Osmania University	24 th February 2020
11	One-week Short term training program on “Recent Research Developments and Challenges in Communication and Navigation Technologies”	25-29 February, 2020

Others

<p>Establishment of New Research Laboratory: Established a new State of the art-Advanced GNSS Research Laboratory (AGRL) in the Department of Electronics and Communication Engineering, Osmania University in collaboration with Space Applications Center, ISRO, Ahmedabad. This lab is equipped with the State of the art equipment related to Global and Regional Satellite Navigation Systems, which includes Dual and Triple frequency GRNSS receivers (received from ISRO and TEQIP Project), which can receive real-time satellite signals from United States’ Global Positioning System (GPS), Russian’ Global Navigation Satellite System (GLONASS), European Union’ GALILEO, Chinese’ Beidou, Japanese’ Quazi Zenith /Satellite System (QZSS) and Indian’ IRNSS/NavIC and Indian Satellite Based, GPS Aided GEO Augmented Navigation System (GAGAN) systems. These satellite receivers can receive Satellite signals at an altitude from 36,000Kms and 20,000Kms. In this research lab, the ‘Performance Evaluation of Indian Regional Navigation Satellite System (IRNSS) receivers under various conditions”and also IRNSS Navigation Receiver Field Trip and Data Collection is being carried out. PhD Scholars, M.Tech and BE students are pursuing/carrying out their Research/Projects/Internships in this advance research laboratory.</p>			
Guest Lectures / Invited Talks			
S.No.	Title of the	Title of	Organized

	Lecture/Academic Session	Conference/Seminar	
1	Presented a Webinar on "Indian NavIC and other GNSS Research Analysis and Challenges"	Webinar	ACS College of Engineering, Department of Aerospace Engineering, Bengaluru, Karnataka, 05 th June, 2021
2	Delivered a Guest lecture on "Indian Space Program"	Discover India Program of Higher Defense Management Course (HDM-16)	College of Defense Management , Higher Defense Management Course, Secunderabad,17 th February 2021
3	How to become successful	One week Orientation Program	Dr. B. R. Ambedkar Institute of Management and Technology, Hyderabad. 4-8 January,2021
4	Keynote Address and chief guest	AICTE sponsored national e-conference "Technology for Impactful and Sustainable Development of the Society", TISDS-2020.	G Pullaiah College of Engineering and Technology, on 16-12-2020
5	Delivered a Guest lecture on "Marine Navigation"	AICTE Sponsored One-Week Short Term Training Program (Online Mode) On "Current Trends and Emerging Advances in Marine Navigation and Communication"	Chaitanya Bharathi Institute of Technology Department of ECE On 11 th December 2020
6	Delivered a talk on "Global Navigation Satellite Systems and its Augmentation systems"	AICTE Sponsored STTP on Signal Processing Technologies for Advanced Wireless Communication Technologies.	Jayamukhi Institute of Technological Science, Warangal, on 25 th November 2020.

		(Online Mode)	
7	Delivered a talk on "Global Navigation Satellite System (GNSS) and its Applications"	Webinar	KL University, Department of Electronics & Communication Engineering" on 28 th August 2020
8	Delivered a talk on "Innovation, Design Thinking and Entrepreneurship (IDTE)"	FDP	Dept. of ECE, 1 st -6 th June 2020, SNIST, Hyderabad
9	Delivered webinar on "GNSS, its Applications and Research Trends"	Webinar	G. Pullaiah College of Engineering and Technology, Dept. of ECE, on May 15 th 2020
10	Delivered a Guest lecture on 'India's Space Program'	Higher Management Defense Course	College of Defense Management on 19 th February 2020
11	Delivered a Guest lecture on Global Positioning System	Guest lecture	ACE Engineering College On 30th Jan 2020
12	Delivered a guest talk on Global and Regional Navigation Satellite Systems	Seminar	VSSUT, Burla, Odisha During 5-7 December 2019
13	Delivered a lecture on	Refresher Course in	UGC-HRDC (Academic

	Global Navigation Satellite System	Earth Sciences	Staff College), Osmania University, Hyderabad from 5-12 Dec 2019
14	Delivered a talk and had technical discussion related to NavIC	NavIC GAGAN Utilization Programme	17-21 September 2019 Space Application Centre (SAC), Indian Space Research Organization (ISRO),
15	Technical discussion on Military and Civilian Applications of NavIC	8 th International Conference on Innovations in Electronics and Communication Engineering, ICIECE-2019	Gurunanak Technical Institutions, Hyderabad, India. On 2 nd and 3 rd August 2019
16	Galileo and IRNSS	Delivered an invited talk on Galileo and IRNSS	OTH University, Amberg, Germany on 11 th July 2019
17	Osmania University and Research activities in Advanced GNSS Research	Delivered an invited talk on Osmania University and Research activities in Advanced GNSS Research	OTH University, Amberg, Germany on 10 th July 2019
18	IRNSS/NavIC	One Week Faculty Development program on "5G and GNSS Positioning"	Organized by Department of ECE, Geethanjali College of Engineering and Technology June 21 st , 2019.
19	INDIAN IRNSS/NavIC and its Applications	Talk on INDIAN IRNSS/NavIC and its Applications	MIT-ADT University, School of Engineering, Pune, Maharashtra Jan 30 th , 2019.
20	GPS/GNSS	2-Day Workshop on "GIS Concepts for Remote Sensing Applications"	BVRIT HYDERABAD College of Engineering for Women in association with IEEE CIS/GRSS Joint Chapter Hyderabad Section. Jan 8 th 2019
21	Global & Regional Satellite Navigation Systems	International Conference On "Innovations in Electronics & Communication	Gurunanak Technical Institutions, Hyderabad India. (Invited Talk)/Keynote address)

		Engineering” (ICIECE – 2018)	
22	Space Communications	NASA Program	Ravindrabharathi International School, Hyderabad, India
23	Indian Regional Navigation Satellite Systems (IRNSS) and its Applications	International Conference On “Innovations in Electronics & Communication Engineering” (ICIECE – 2017)	Gurunanak Technical Institutions, Hyderabad India. (Invited Talk)/Keynote address)
24	Career opportunities for Electronics Engineers	Career opportunities in Engineering	Education and Career Guidance Cell, Hyderabad
25	Electronic Measurements and Instrumentation	Seminar on Electronic Instrumentation	Bharat College of Engg. And Technology, Hyderabad
26	GPS and its Applications	Seminar on Advanced Communication Systems	Aizza College of Engg. And Technology, Mancherla, Andhra Pradesh
27	Global Positioning System	Advanced Wireless Communication Systems	Sri Vanajari Seethai College of Engg. And Technology, patancheru.
28	Industrial Electronics and Instrumentation	One week Short term course on skill up gradation.	DRDL, Hyderabad
29	Global Positioning Systems and its Applications	IEEE Regional Students Professional Awareness Congress-2010	IEEE and SR Engg. College, Warangal
30	GPS and its Applications	A Two day National Level Technical Workshop on “Surge for Technical Excellence and Proficiency”. STEP-2011	Dept. of Electronics & Comm. Engg, Deccan College of Engg and Tech, Hyderabad

Awards/ Achievement

Awards

S.No	Name of Award	Awarding Agency	Year
1	Award for Excellence in Research	Initiative Global Research and Development Awards-21, Record Owner-Home of World Records, India	2021
2	CHSN-2020: Young Researcher Award	Andhra Pradesh State Council for Higher Education (APSCHE) and JNTU Kakinada, Andhra Pradesh, India	2020
3	Sir C V Raman Memorial Award-2019	Telangana Citizens Council, Telangana State, India	2019
4	Research day Best paper award, 23 August 2019, CBIT, Hyderabad	Research Day 2019, Chaitanya Bharathi Institute of Technology , Telangana, India	2019
5	Best paper award in International Journal of Advanced Research Trends in Engineering and Technology , UGC Approved Journal, Thomson's Router Indexed.	Thomson's Router	2017
6	M.C. Vaithalingam Best paper National award in the 36 th National Systems Conference, Dec 6-8, 2012, Tamilnadu	Springer Series Lecture Notes in Electrical Engineering	2013

Achievements

1. Letter of appreciation from Convener, TS **EAMCET -2020** for successfully discharging duties as **Regional Coordinator** (South East Zone, Hyderabad, Telangana State).
2. Letter of appreciation from Convener, TS EAMCET -2020 for successfully discharging duties as **Member in Confidential Work/Result processing of TS EAMCET-2020**.
3. PI/Instrumental in signing of MoU between Space Applications Center, **ISRO**, Ahmedabad and UCE, OU and (2016-2018) and Extension of MoU (2019 to 2021: Active till September 2021)(Performance Evaluation of Indian NavIC under different conditions)

4. Instrumental in signing of MoU between OTH University and OU, Amberg, Germany (pending 2021)
(Already signed by Registrar, OU and pending sign from OTH University Germany)

Corporate/Administrative Experience

1. Coordinating Officer(MoU between University College of Engineering, Osmania University and Space Applications Centre, Indian Space Research Organization (**ISRO**)).(2016 to till date)
2. Vice-President of Osmania University, ECE Alumni Association.
3. Member BOS (Global), Dept of ECE, OU (2014 to till date)
4. **Assistant Controller of Examination** (Coordination, PGCDE, EDP& P-I) (Examination Branch, OU) 2011 to 2016.
5. Member in Dept. Research Committee (**DRC**), Dept of ECE, OU
6. Member in **PhD. Admission Committee**, Dept of ECE, OU
7. Member in **Anti-ragging Committee**, Dept of ECE, OU
8. **Additional Director** (Central Computing Center, UCE,OU).(2011-2015).
9. Worked as **Special Officer**(Central Internet Lab) (2007-2011).
10. Member of **Governing body** for OU affiliated colleges
11. Member of Committee for **preparing HandBook** 2012-2013, UCE, OU.
12. Member BOS (Autonomous) in Dept of ECE, UCE, OU (2014 to till date)
13. Member of Committee in Media Coverage in Annual Academic Awards function, UCE,OU
14. Member of the Assessment Committee in **CCMB** and **NRSC**.
15. Member of Telangana State Government Vigilance Committee for Engineering Colleges inspection in 2016.
16. Member of the Assessment Committee (**Andra Pradesh Public Service Comission**).
17. Member of the Assessment Committee to assess (Technical Officers) **CSIR-NGRI**.
18. External expert for conduct of DRTC Special review boards 2011, 2012 & 2013 and assessment board 2013 held at **RCI Defense Research Development Organization**, INDIA.
19. Honorary Membership of OUECE Alumni Association.
20. Member of Governing body for Osmania University affiliated Colleges.
21. **Director (Infrastructure)**, Osmania University, From August, 2021.

Trainings and Other Programs Attended

Workshops Attended:

S.No	Name of the Course	Academic Staff College / University	Duration	Sponsoring Agency
1	A Two day ISRO Webinar on “ Continuously	Webinar	April 21-22. 2021	ISRO Head Quarters, Bengaluru

	Operating Reference Station (CORS) in India –prospects on NavIC			
2	A Webinar Series on “Satellite Navigation and NavIC Applications for the Common Man”	Webinar	February 6-9, 2021	Institution Engineers(I), Delhi State Center and Indian Space Industries Exhibitors (ISIE),, Ahmedabad.
3	National Webinar on “ The Role of Electronics Engineering Fraternity in Craving a Super Techno Power India”	Webinar	26 th July 2020	VSSC, ISRO, Trivendrum
4	International Live Webinar on “ISS-ABOVE: the story of a 6+ adventure bringing space station inspiration to the world”	Webinar	6 th May 2020	Nizam College, Hyderabad
5	Webinar on “Satellite Navigation- past, present and Future”	Webinar	8 th June 2020	ACS college of Engineering, Bengaluru, Karnataka.
6	Five days “Professional Development Program”	IIM Raipur, Chhattisgarh	23-27 th September 2019	TEQIP-III
7	Two Days Workshop on Satellite Navigation & Applications of GNSS/NavIC	National Atmospheric Research Laboratory Department of Space, Govt. of India, Gadanki-517 112, A.P.	5 th -6 th April 2018	National Atmospheric Research Laboratory (NARL) Department of Space, Govt. of India,
8	One day workshop on “Positioning Intelligence”	Hexagon Capability Center India Private Limited, DivyaSree Trinity Campus, Plot No. 5, Phase 2,HITEC City, Hyderabad, Telangana	3 rd October 2018	Hexagon Capability Center India Private Limited,
9				

	Five Days course on "Opportunities Challenges and Research Trends in Wireless Sensor Networks"	Organized by the Department of ECE, University College of Engineering, Osmania University, Hyderabad-500007. Telangana, India.	11 th -15 th December 2017	Ministry of Human Resource Development (MHRD) Govt. of India under the scheme of (GIAN) Global Initiative for Academic Networks.
10	Five Days course on Theory and Application of Correlation Filters for Computer vision	Organized by the Department of ECE, University College of Engineering, Osmania University, Hyderabad-500007. Telangana, India.	13 th - 17 th November 2017	Ministry of Human Resource Development (MHRD), Govt. of India under the scheme of (GIAN) Global Initiative for Academic Networks.
11	One-week course on Advanced Electromagnetic Engineering	Organized by the Department of ECE, University College of Engineering, Osmania University, Hyderabad-500007. Telangana, India.	02 nd - 08 th November 2017	Ministry of Human Resource Development (MHRD), Govt. of India under the scheme of (GIAN) Global Initiative for Academic Networks.
12	Two Days training on Satellite Navigation	Department of Space Indian Space Research Organization National Remote Sensing Centre, Hyderabad	30 th -31 st October 2017	Indian Space Research Organization, India.
13	Three Days International Conference/Workshop on MARS SUMMIT	ACS College of Engineering	21 st - 23 rd February 2017	ACS College of Engineering, Bengaluru-560 074.
14	One day Workshop on Fundamentals of GNSS/IRNSS and Applications on Atmospheric Science	National Atmospheric Research Laboratory, Department of Space, Govt. of Indian	26 th February 2016	National Atmospheric Research Laboratory, Department of Space, Govt. of Indian
15	Two Days workshop on Communication intelligence	Jointly organized by Department of ECE, CBIT & DLRL, DRDO.	25 th – 26 th October 2016	Defense R &D Organization, DRDO, DLRL

	(COMINT) Systems			Hyderabad.
16	Two Days Intensive Course on "Electronic Intelligence (ELINT) Systems"	Jointly organized by Department of ECE, Defense Research and Development organization (DRDO) and CBIT.	12 th -13 th December 2014	University College of Engineering, Osmania University.
17	Two Weeks Faculty Development Programme (FDP) in "Entrepreneurship"	Entrepreneur Development Cell, Osmania University	30 th December 2013 – 10 th January 2014	NSTEDB, Department of Science & Technology (DST), Govt. of India.
18	Three Weeks Science & Engineering Research Council (SERC) School on "GPS Applications and Atmospheric Constraints"	SERB and Research and Training Unit for Navigational Electronics, Osmania University	13 th June – 3 rd July 2012	Science and Engineering Research Board (SERC), Department of Science & Technology (DST), Govt. of India.
19	Science and Engg Research Council School (SERC) on "GPS Applications and Atmospheric Constraints"	SERB and Research and Training Unit for Navigational Electronics, Osmania University	13 th June to 3 rd July 2012 (3 Weeks)	Dept. of Science and Technology (DST), Govt. of India
20	Science and Technology initiatives in Atmospheric Science for Engineering Staff.	National Atmospheric Research Laboratory (NARL)	25 th – 26 th November 2010 (2 days)	Dept. of Space, Govt. of India and UGC-SVU Centre for MST Radar Applications, Sri Venkateshwara University, Tirupathi.
21	Science and Engg Research Council School (SERC) on "Atmospheric Effects on GPS and LAAS"	SERB and Research and Training Unit for Navigational Electronics, Osmania University	17 th June to 7 th July 2009 (3 Weeks)	Dept. of Science and Technology (DST), Govt. of India

22	High Impact Presentation Skills	Wipro Technologies and University College of Engineering, Osmania University	11 th Feb to 15 th Feb 2008 (1 Week)	WIPRO Technologies and UCE, OU
23	Science and Engg Research Council School (SERC) on "Atmospheric Effects on GAGAN"	SERB and Research and Training Unit for Navigational Electronics, Osmania University	14 th Nov to 4 th Dec 2007 (3 Weeks)	Dept. of Science and Technology (DST), Govt. of India
24	Faculty Orientation Program	Osmania University Center for International Programs	2 nd July to 12 th July 2007 (2 Weeks)	Osmania University Center for International Programs

Memberships in Professional/Scientific Bodies

S.No.	Details
1	Member of Institute of Electrical and Electronics Engineers (M.No. 91140906)
2	Member of "International Association of Computer Science and Information Technology (IACSIT), Singapore (M.No: 80332542).
3	Life Member of Instrumentation Society of India (ISOI), India (LM 1785)
4	Life Member of Indian Society for Technical Education (ISTE) India (LM 28535).
5	Life Member of <i>Broadcast Engineering Society</i> (BES), India
6	Life Member of Institution of Engineers (MIE)
7	Life Member of Indian National Cartographic Association (ICA)
8	Member of IEEE, USA

List of Publications

Peer-Reviewed Papers

International Journals:

1. Devireddy K, Narsetty S, Ramavath AK, **Perumalla NK.**, “Validation of the IRI-2016 Model with Indian NavIC data for Future Navigation Applications”, ET Radar Sonar Navig. volume 1, Issue 15, pp. 37-50, 2021.. <https://doi.org/10.1049/rsn2.12013> (**Expanded SCI Journal**)
2. Kavitha Devireddy, Noor Ul Abedin, Devadas Kuna and **Dr. P. Naveen Kumar**, “Analysis of Various Parameters of L5 and S1 NavIC Signals over Low Latitude Region”, **Elsevier Journal of Procedia Computer Science**, Volume 171, pp. 2704–2712, 2020. <https://doi.org/10.1016/j.procs.2020.04.293>.
3. Kavitha D., **Naveen Kumar P.**, Praveena K., “Comparison of VTEC Due to IRI-2016 Model and IRNSS over Low Latitude Region”, **Springer Nature Switzerland AG** 2020, Learning and Analytics in Intelligent Systems, Volume 4, Spp. 320–326, 2020. https://doi.org/10.1007/978-3-030-24318-0_39.
4. **Dr P Naveen Kumar**, D Kavitha, “GNSS Ionospheric Scintillation Monitoring Using GPStation-6 at Low Latitude Ground Station” International Journal of Electronics, Electrical and Computational System (IJEECS), ISSN 2348-117X Volume 6, Issue 8 August 2017. (**UGC Listed DOAJ, EBSCOHOST, MENDELEY**)
5. Kaitha Praveena, **Perumalla Naveen Kumar**, D. Krishna Reddy, N. Santhosh “Analysis of Ionospheric Scintillations of NavIC L5 and S band Signals over Low Latitude Indian Region”, **Elsevier Journal of Procedia Computer Science**, Volume 171, 2020, pages 989-998. <https://doi.org/10.1016/j.procs.2020.04.106>
6. Devadas Kuna, N. Santhosh, **Naveen Kumar Perumalla**, “Preliminary Analysis of Standalone Galileo and NavIC in the context of Positioning Performance for Low Latitude Region”, **Elsevier Journal of Procedia Computer Science**, Volume 171, 2020.
7. K Madhu Krishna, **P Naveen Kumar**, R Naraiah, “Prediction of Differential GPS Corrections Using AR and ARMA Models”, **Springer Nature Switzerland AG**, ICETE 2019, LAIS 4, pp. 290–298, 2020. <https://link.springer.com/chapter/10.1007%2F978-3-030-24318-035>
8. K. Devdas, **P. Naveen Kumar**, R. Anil Kumar “Positioning parameters for stand-alone and Hybrid modes of the Indian NavIC System: Preliminary Analysis”, **Springer**, International Conference on Emerging Trends in Engineering, during 22-23 March 2019, University College of Engineering, Osmania University, Hyderabad, Telangana, India.
9. **P Naveen Kumar**, Pedda Naraiah, “Analysis of Selected Parameters of Single Frequency Receiver in GPS and GAGAN modes” International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), ISSN 2394-3785, Volume 4, Issue 12 (Dec-2017), Page No.11-14. (**Best Research Paper award**), (**UGC Approved Journal, Thomson’s Router Indexed**).
10. **P Naveen Kumar**, Pedda Naraiah, “Comparative Analysis of Accuracy of Distance Measured using GPS and Indian SBAS for Single Frequency Applications” International Journal of Emerging Technology and Advanced Engineering (IJETA), SSN 2250 – 2459 Volume 7, Issue 11, Published in November 2017, Page No:409-412. (**UGC Approved**).
11. **Naveen Kumar**, A. D.Sarma and A.Supraja Reddy, “Modeling of ionospheric time delay of Global Positioning System (GPS) signals using Taylor series expansion for GPS Aided Geo Augmented Navigation applications,” in IET Radar, Sonar & Navigation, vol. 8, no. 9, pp. 1081-1090, 12 2014. (**Expanded SCI Indexed**)
12. KC.T Swamy, A.D.Sarma, V.SatyaSrinivas, **P.Naveen Kumar**, PVD Somasekhar, “Accuracy Evaluation of Estimated Ionospheric Delay of GPS Signals based on Klobuchar and IRI-2007 Models in Low Latitude Region”, **IEEE Geoscience and Remote Sensing Letters**, USA, Vol. 10, Issue 6,

November,2013. **(SCIE Indexed)**

13. **P.Naveen Kumar**, “Operational Satellite Navigation Systems ”International Journal of Advanced Research Trends in Engineering and Technology , ISSN 2394-3785, Volume 4, Issue 12 (Dec-2017), Page No.26-30, **(UGC Approved Journal, Thomson’s Router Indexed)**.
14. **P Naveen Kumar**, N.Santhosh, “Analysis of Ionospheric TEC using Indian SBAS data for various storm conditions” International Journal of Advance and Innovative Research, Volume 4, Issue 4(III),October-December, 2017. **(SCOPUS indexed)**
15. S. Ravi Kumar, **P. Naveen Kumar**, “Hardware-software co-design for various Parallel applications using the Concept of Dynamic Partial Reconfiguration at FPGA Partitions”, International Journal on Futuristic Computer Applications, 2010. **(SCOPUS Indexed)**
16. Ramesh G., Dwivedi P.N., **Naveen Kumar P.**, Padhi R. (2013) “Effect of Choice of Basis Functions in Neural Network for Capturing Unknown Function for Dynamic Inversion Control. In: Malathi R., Krishnan J. (eds) Recent Advancements in System Modelling Applications. Lecture Notes in Electrical Engineering, vol 188. Springer, India. **(SCOPUS indexed)**
17. **Naveen Kumar P**, “Investigation of TEC Using YOUTHSAT RaBIT Payload Data for Low Latitude Regions”, World Academy of Science, Engineering and Technology, International Journal of Electronics and Communication Engineering, Volume:8, Issue No:6,2014. **(Science indexed)**
18. **Perumalla Naveen Kumar**, Nayab Rasool, K. Madhu Krishna, A. D. Sarma, Mridula N, Tarun Kumar Pant, Sreelatha. P, Rosmi J., Santosh Koli, Praveen Kumar and R. Sharma, “Ionospheric Variability of Low and Equatorial Latitude Regions over India – A Study using RaBIT Onboard Youthsat”, Indian Journal of Radio and Space Physics”, Vol. 42, June 2013, National Institute of Science and Communication, **CSIR Journal**, India. **(SCOPUS Indexed)**
19. **P Naveen Kumar**, P. Naga Sahitya, “Comparative Analysis of Accuracy Using Stand-alone GPS and GAGAN Systems for Indian Region” International Journal of Electronics, Electrical and Computational System, ISSN 2348-117X Volume 6, Issue 7 July 2017. **(UGC Approved)**.
20. Deepthi N and **Naveen Kumar**, “Revenue Maximization via Optimal Resource Rationing in Wireless Networks”, The **IUP Journal** of Operations Management, Vol. VIII, Nos.3 & 4,pp 21-40, August & November 2009.

Conferences

International Conferences:

1. Kavitha Devireddy, **Naveen Kumar P**, “Performance Evaluation of Global ionospheric models using Indian NavIC signals”, 43rd COSPAR Scientific Assembly 2021, 28th January-4th February, **International Convention Centre, Sydney Australia.**
2. Kavitha, K Sreeteja , Yaseen and **P Naveen Kumar**, “Comparison of GPS Vertical Total Electron Content and GIM TEC assimilation of the IRI-Plas model at two Low Latitude Indian regions during the Storm Condition” URSI Regional Conference on **Radio Science 2020**, IIT (BHU), Varanasi, India, 12 - 14 February, 2020.
3. R P Naraiah, **P Naveen Kumar**, A D Sarma, Joshna, T S N Murthy “ Preliminary Performance Evaluation of IRNSS in Sea Environment”, 20th International Conferences Beacon Satellite Symposium- 2019, Sponsored by Boson College, International Union of Radio Science (**URSI**), National Scientific Committee (NSF), on Solar Terrestrial Physics (SCOSTEP), Andrzej Krankowski, University of Mazury and Olsztyn, Poland, August 19th – 23rd 2019.
4. Kavitha Devireddy, **Naveen Kumar P**, “Performance Evaluation of Global ionospheric models using

Indian NavIC signals”, **43rd COSPAR Scientific Assembly 2021**, 28th January-4th February, **International Convention Centre, Sydney Australia.**

5. Devireddy, S. K. Veerlapati, K. C. C and **N. K. Perumalla**, "Variations of TEC based on GPS data during descending phase of 24th solar cycle, 2017 year over low latitude Indian station," **2020 IEEE Bangalore Humanitarian Technology Conference (B-HTC)**, Vijiyapur, 2020 pp. 1-4, doi: 10.1109/B-HTC50970.2020.9297868.
6. D Kavitha, **P Naveen Kumar**, N Santhosh , “Estimation and Preliminary analysis of Ionospheric delay due to IRNSS L5 and IRI-2016 model for various Seasons” , 20th International Conferences Beacon Satellite Symposium- 2019, **University of Mazury and Olsztyn, Poland**, August 19th – 23rd , 2019.
7. D Kavitha, **P Naveen Kumar**, N Santhosh , “Preliminary Performance Evaluation of IRI-2016 Model Using IRNSS data over Low Latitude Stations:”, IRI 2019 workshop at **Frederick University in Nicosia, Cyprus**, September 9-13, 2019.
8. D Kavitha, **Dr P Naveen Kumar**, A D Sarma, “Performance Evaluation of IRNSS over Low Latitude Station” Preliminary Results”, IEEE International Conference on Innovative Technologies in Engineering 2018 (ICTTE).
9. P. Naraiah, **Perumalla Naveen Kumar**, Kaitha Praveena and Chandra Shekar “Analysis of position accuracy of NavIC Satellites - Preliminary Results”, **IEEE International Conference for Emerging in Technology (INCET-2020)** at JCE, during 5-7, June 2020, Belgaum, India.
10. Sony, JB Farheen, D Krishna Reddy and **P. Naveen Kumar**,” Integrity Monitoring of GNSS using Ztest” , "**International Conference On Emerging Trends In Circuit-Branch Technologies And Applications-2021**, 3rd-4th April 2021.
11. Sony, S.Chandravardhan, D. Krishna Reddy, **P. Naveen Kumar**,” Satellite Selection Algorithm for RAIM Application”, "**International Conference On Emerging Trends In Circuit-Branch Technologies And Applications-2021**, 3rd-4th April 2021.
12. Sony , Dr.D. Krishna Reddy and **Dr.P.Naveen Kumar** , “Statistical Characterization of IRNSS Satellite Clock Error for Receiver Autonomous Integrity” , “**Springer Third International Conference Soft Computing and Signal Processing**” (ICSCSP-2020), 21st-22nd August 2020,
13. Sony , V. Satya Srinivas , **P. Naveen** and D. Krishna Reddy, “IRNSS User Range Accuracy (URA) Evaluation for Receiver Autonomous Integrity”, 2019 **URSI , Asia Pacific Radio Science Conference (AP-RASC)** , New Delhi, 9-15th March 2019.
14. Praveena, A. Supraja Reddy, D. Krishna Reddy, Dr. **P. Naveen Kumar**, “Estimation of GNSS Receiver bias using Fitted Receiver Bias (FRB) Method”, 80th Anniversary of Suan Sunandha Rajabhat University (SSRU) Organized International Conference on Innovation Smart Culture and Well-Being (ICISW-2018), Sponsored by International Council of Associations for Science Education (ICASE), Swinburne University of Technology, National Research Council of Thailand (NRCT), **Griffith University**, University Putra Malaysia (UPM), Thailand during November 8, 2018, pg.no 495-463.
15. Sridher, A. D. Sarma, **P. N. Kumar** and K. Lakshmana, "Results of Indoor Localization using the Optimum Pathloss Model at 2.4 GHz," **2020 XXXIIIrd General Assembly and Scientific Symposium of the International Union of Radio Science, Rome, Italy**, 2020, pp. 1-4, doi: 10.23919/URSIGASS49373.2020.9232019.
16. Sridher , N.V. Koteswara Rao, Tarun Kumar Pant, A.D.Sarma, **P.Naveen Kumar** “Indoor Propagation of IRNSS Signals:Preliminary Results” 2018 International CET Conference on Control, Communication, and Computing (IC4) | July 05 – 07, 2018 | Trivandrum, 978-1-5386-4966-4/18/\$31.00 ©2018 IEEE 230.
17. Kaitha Praveena, **Perumalla Naveen Kumar**, D. Krishna Reddy and P. Naraiah “Indian NavIC

- Ionospheric Scintillation during Partial Solar Eclipse in December,2019”, **IEEE International Conference for Emerging in Technology (INCET-2020)** at JCE, during 5-7, June 2020, Belgaum, India.
18. Gatta Sambasiva Rao, **P.Naveen Kumar**, P.Swetha and G.Bhanu Kiran” Security assessment of computer networks -an ethical hacker’s perspective”, **International Conference on Computing and Communication Technologies**, Hyderabad 2014.
 19. **Naveen Kumar**, K. C. T. Swamy, A.Swetha and A. D. Sarma, ”Investigation of Ionospheric VTEC using Taylor Series Expansion Model for Indian SBAS Applications”, International Conference on Computing and Communication Technologies, 11-13 December 2014,Hyderabad, India
 20. R Srinivas, L. Nithyanandan, P. V. V. Subba Rao, **P. Naveen Kumar**, G. Uma Devi, “Advanced High Speed Parallel Frame Synchronizer for High Data Rate Indian Remote Sensing Satellite Series”, 5th International Conference on Computers and Devices for Communication”, (CODEC -2012), Sponsored by **IEEE MTS** and Photonics society, INSA, BARC, CSIR, December 17-19, Kolkata, India.
 21. **Naveen Kumar**, Nayab Rasool, K. Madhu Krishna and T K Pant, “Preliminary TEC Results due to Youthsat RaBIT Payload Signals for Low Latitude Regions”, Pearl Jubilee International Conference on Navigation and Communication (NAVCOM-2012), sponsored by **DRDO** and technically sponsored by **IEEE**, December 20-21, 2012.
 22. **Naveen Kumar**, K. C. T. Swamy, A. Swetha and A. D. Sarma,” VTEC Estimation with Taylor Series Expansion Model using GPS data for Low Latitude Region”, **IEEE Conference – INDICON 2012**, December 7-9, 2012. Kochi, Kerala, India.
 23. Srinivas, **P. Naveen Kumar**, G. Umadevi, P. V. V. Subba Rao, “Design and Development of S-Band SPS Data Simulator for Indian Remote Sensing (IRS) Satellite Series”, The **IEEE Applied Electromagnetics Conference – AEMC 2011**, sponsored/supported by IEEE Microwave Theory and Techniques Society and International Union of Radio Science (**URSI (Commission-B)**), December 18-22, 2011 in Kolkata, India.
 24. Srinivas, **P. Naveen Kumar**, P.V.V. Subba Rao, “Design and Validation of Online BER Measurement of Satellite Data Channel for IRS Series Satellites” **The Biennial IEEE Applied Electromagnetics Conference – AEMC 2009**, sponsored/supported by IEEE Antennas and Propagation Society, IEEE Microwave Theory and Techniques Society and International Union of Radio Science (**URSI**), December 14-16, 2009 in Kolkata, India.
 25. **Naveen Kumar**, A.D. Sarma and Rameshwar Rao, “Effects of Ionospheric Time Delay on Future Air Navigation Systems in Low Latitude region”, “International Seminar on System Design (ISSD 2009)”, Tokyo Metropolitan University, **Tokyo 4-6, Japan**, November 2009.
 26. Satyanarayana, **P. Naveen Kumar**, D. G. Ramnath, “Implementation and Applications of Dynamic Reconfiguration Techniques”, International Conference on Recent Advances in Communication Engineering, 20-23 December 2008, Department of ECE, University College of Engineering, Osmania University, Hyderabad.
 27. **Naveen Kumar**, S. Rajitha Rani, G. Aparna, P. Swetha, “Analysis of MRI Brain Image Segmentation Techniques for Medical Applications”, International Conference on Recent Advances in Communication Engineering”, 20-23 December 2008, Department of ECE, University College of Engineering, Osmania University, Hyderabad.
 28. Ravi Chandra, **P. Naveen Kumar**, A.D. Sarma, “Analysis of TEC estimation due to IRI-2007 model for GAGAN applications “, International Conference on Recent Advances in Communication Engineering”, 20-23 December 2008, Department of ECE, University College of Engineering, Osmania University, Hyderabad.

National Conferences:

1. Kavitha Devireddy, **Naveen Kumar P**, "Estimation of Ionospheric delay due to NavIC signals over Indian region during descending phase of 24th solar cycle 2017 year phase of 24th solar cycle 2017 year", **AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society(TISDS-2020)"** during 15th-16th December, 2020, GPCET, Kurnool, A.P.
2. D Kavitha, **Dr P Naveen Kumar**, "Comparative Analysis of ionospheric TEC due to multi constellation navigation signals with IRI-2016 Model Over Indian Region" **AP Science Congress-2018**, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh, 9th – 11th November, 2018.
3. **Dr P Naveen Kumar**, D Kavitha, "Estimation of TEC using IRNSS Data over Indian Sub-Continent " 39th NAGI- **Indian Geographical Congress-2017**, Organized by Department of Geography, Osmania University, Hyderabad, Telangana , 5th – 7th December 2017.
4. **P.NaveenKumar**, Devadas kuna, D.Vyshali, "Analysis of Experimental reception of Dual frequency IRNSS Signal" 39th NAGI- **Indian Geographical Congress-2017**, Organized by Department of Geography, Osmania University, Hyderabad, Telangana, 5th – 7th December 2017.
5. Devadas, **Dr. P. Naveen Kumar**, K. Praveena "Investigating the Horizontal Accuracy of Standalone-Galileo System Over a Low Latitude region", 2nd Triennial Congress on Geosciences for sustainable development goals, Jointly organized by Association of Exploration Geophysicists, Indian Geophysical Union & **CSIR-National Geophysical Research Institute(NGRI)**, held at NGRI, Hyderabad, during 13-16 October 2019.
6. Devdas, N. Santhosh, **Dr. P. Naveen Kumar** "Comparative Performance analysis of GALILEO and NAVIC at low latitude station", 20th National Space Science Symposium (NSSS – 2019), Sponsored by **ISRO**, during January 29-31, 2019, Savithribaiphule Pune University, Pune, Maharashtra, India.
7. Devadas Kuna , K.Madhu Krishnab , **Naveen Kumar Perumalla** "Analysis of European Galileo satellite position determination using broadcast ephemeris" in **AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020)** at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
8. K Madhu Krishna, Devadas Kuna, **P Naveen Kumar**, "Analysis of Differential Corrections using L5 Code and Carrier phase measurements of IRNSS", **AICTE sponsored e-conference on Technology for Impactful and Sustainable Development of the Society (TISDS 2020)**, GPCET, Kurnool, 15-16 December 2020.
9. K Madhu Krishna, Devadas Kuna, P Naveen Kumar, "Comparative Analysis of the Differential NavIC Corrections using Code and Carrier Phase Measurements", **AICTE sponsored e-conference on Technology for Impactful and Sustainable Development of the Society (TISDS 2020)**, GPCET, Kurnool, 15-16 December 2020.
10. Pedda Naraiah.R, **P.Naveen Kumar**, G.Suresh, G.Chandra Shekar" Anaysis of Selected Paramaters for Indian Navic Signals" in **AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020)** at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
11. P. Naraiah, **Perumalla Naveen Kumar**, Kaitha Praveena and Chandra Shekar "Preliminary Analysis of various parameters of NaVIC signals for marine Applications". National Conference Earthquake : Investigation and Instrumentation, September 23-24, 2019.
12. Sony , D. Krishna Reddy, **P. Naveen** , and V. Satya Srinivas, "IRNSS and GPS Satellite User Range Accuracy Analysis for Receiver Autonomous Integrity Monitoring", 2019 -**ISRO National Space**

Science Symposium (NSSS 2019) , Savitri Bhai Phule Pune University, Pune, January 2019.

13. Devadas kuna, **Dr. P Naveen Kumar**, “Preliminary Analysis of IRNSS L5 and S1 Signals for Indoor and Outdoor Environments” **AP Science Congress-2018**, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh, 9th – 11th November 2018.
14. P.Naveen Kumar, R.P.Naraiah, T.Shiva Prathap “IRNSS 1A: Specific Issues and Applications” **AP Science Congress-2018**, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh, 9th – 11th November 2018.
15. Praveena, **Dr. P. Naveen Kumar**, Dr. D. Krishna Reddy and R.P. Naraiah “Receiver Bias Estimation of Indian GAGAN system using FRB technique for Equinox days: Preliminary results”, Andhra Pradesh Akademi of Sciences Amaravati organized jointly with Yogi Vemana University, **Andhra Pradesh Science Congress-2018 (APSC-2018)** Kadapa, on November 9-11,2018.
16. Praveena, **Dr. P. Naveen Kumar**, Dr. D. Krishna Reddy and K. Devadas “Estimation of GLONASS Receiver bias using Fitted receiver Bias method”, 2 Triennial Congress on Geosciences for sustainable development goals sponsored by Ministry of Earth Sciences, New Delhi, **SERB-Department of Science and Technology**, New Delhi, National Centre for Earth Science Studies, Thiruvananthapuram, Wadia Institute of Himalayan Geology, Dehradun, **CSIR-Central Institute of Mining and Fuel Research**, Dhanbad at CSIR-National Geophysical Research Institute, Hyderabad on 13-16 October 2019.
17. Praveena, **Dr.P.Naveen Kumar**, Dr.D.Krishna Reddy “Analysis of GPS and GAGAN for Sunny day and Rainy day Using Single Frequency Receiver over Low Latitude Region”, **AICTE** Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
18. Praveena, **Dr.P.Naveen Kumar**, Dr.D.Krishna Reddy “Preliminary Performance Analysis of GPS and GAGAN under selected conditions for Single Frequency Applications”, **AICTE** Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) at GPCET on 15-16 Dec 2020, Kurnool, Andhra Pradesh.
19. Devdas, **P. Naveen Kumar** and Chandra Shekar “Analysis of Positioning accuracy parameters of Standalone-Galileo system for Indian region”, Research Day 2019, Chaitanya Bharathi Institute of Technology (A), 23rd August 2019.
20. Noor UI Abedin, Kavitha Devireddy and P. Naveen Kumar, “VTEC Estimation for GPS and NavIC” Research Day 2019, Chaitanya Bharathi Institute of Technology (A), 23rd August 2019.
21. Praveena, **P. Naveen Kumar**, Dr. D. Krishna Reddy and G. Suresh Kumar “GLONASS Receiver Bias Estimation Using FRB Method”, Research Day 2019, Chaitanya Bharathi Institute of Technology (A), 23rd August 2019.
22. Santosh, **P. Naveen Kumar** and R. Anil Kumar, “The preliminary performance evaluation of Beidou Navigation Satellite System over Indian Region”, Research Day 2019, Chaitanya Bharathi Institute of Technology (A), 23rd August 2019.
23. **Naveen Kumar**, S. Radharani, C. Vani, “Preliminary Investigation of Generation of US-Bases GPS Signal”. Innovations in Electronics and Communication Engineering, **Springer** Lecture notes in Networks & Systems, Pg.no.271-278, Jan, 2019.
24. Anil Kumar, **Dr. P. Naveen Kumar** “A Brief Review on Satellite Navigation Systems “AP Science Congress-2018, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh, 9th – 11th November 2018.
25. Santhosh, **Dr. P Naveen Kumar**, T. Shiva Prathap “Tracking and analysis of IRNSS and GPS Satellite

using IGS Receiver for Rainy and Sunny days” **AP Science Congress-2018**, Jointly Organized by Andhra Pradesh Akademi of Sciences and Yogi Vemana University, Kadapa, Andhra Pradesh, 9th – 11th November 2018.

26. **P Naveen Kumar**, Pedda Naraiah, “Indian Regional Satellite Navigational System” 39th **NAGI**- Indian Geographical Congress-2017, Organized by Department of Geography, Osmania University, Hyderabad, Telangana, 5th – 7th December 2017.
27. **P.NaveenKumar**, Devadas kuna, D.Vyshali, “Analysis of Experimental reception of Dual frequency IRNSS Signal” 39th **NAGI**- Indian Geographical Congress-2017, Organized by Department of Geography, Osmania University, Hyderabad, Telangana, 5th – 7th December 2017.
28. **P Naveen Kumar**, N. Santhosh, Y. Ranjith Kumar, “Tracking of IRNSS Satellites over Hyderabad region” 39th **NAGI**- Indian Geographical Congress-2017, Organized by Department of Geography, Osmania University, Hyderabad, Telangana, 5th – 7th December 2017.
29. **P Naveen Kumar**, D. Kavitha, “Estimation of TEC using IRNSS Data over Indian Sub-Continent” 39th **NAGI**- Indian Geographical Congress-2017, Organized by Department of Geography, Osmania University, Hyderabad, Telangana , 5th – 7th December 2017.
30. **P. Naveen Kumar**, CH Vijaya Basker “Analysis of Experimental Data obtained using GNSS Receivers for Low Latitude Region” **X International Geographical Union (IGU)** Conference on Urbanization, Health and Well-being and Sustainable Development Goals”, on March 17th-19th, 2017, Hyderabad.
31. **P. Naveen Kumar**, Simhasini Tikko, Mahmood Khan, P. Sruthi “Analysis of User Position for Various Conditions Using GPS/GAGAN Single Frequency Receiver for Low Latitude Regions”. **X International Geographical Union (IGU)** Conference on Urbanization, Health and Well-being and Sustainable Development Goals”, on March 17th-19th, 2017, Hyderabad.
32. **Perumalla Naveen Kumar**, Seelam Ch. Vijaya Bhaskar, “Analysis of Ionospheric Time Delay Effects on Navigation Systems using GAGAN Data”, 19th National Space Science Symposium (NSSS–2016), sponsored by **ISRO**, in association with **Vikram Sarabhai Space Centre (VSSC)**, Thiruvananthapuram, Kerala, February 9-12, 2016.
33. **Naveen Kumar**, “Investigation of Indian LEO Satellite- YOUTHSAT’s RaBIT payload data for Low-latitude regions”, 18th National Space Science Symposium (NSSS – 2014), Sponsored by **ISRO**, Dibrugarh University, Dibrugarh, Assam, India, January 29-1 February, 2014.
34. Gatta Sambasiva Rao, **P. Naveen Kumar**, “Investigation of Computer Networks using Open Source Tools”, 44th **Mid-Term Symposium** on ICT in Space, Defense and Industrial Applications, 21st -22nd April, 2013, Organized by **IETE**, Hyderabad, India.
35. C. T. Swamy, C. Praveen Kumar Reddy, **P. Naveen Kumar** and A. D. Sarma, “Analysis of Low Latitude Ionosphere using Youthsat data”, 17th National Space Science Symposium (NSSS – 2012), Sponsored by **ISRO**, during February 14-17, 2012, Sri Venkateswara University, Tirupathi, Andhra Pradesh, India
36. **Naveen Kumar** and A. D. Sarma, “Modeling of Ionospheric VTEC using Taylor Series Expansion for GAGAN Applications”, 17th National Space Science Symposium (NSSS – 2012), Sponsored by **ISRO**, during February 14-17, 2012, Sri Venkateswara University, Tirupathi, Andhra Pradesh, India.
37. **Naveen Kumar**, “Analysis of TEC due to GPS Signals during Geomagnetic Storm Conditions for Indian GAGAN Applications”, National Conference on Emerging Trends in Communications and Signal Processing, Sponsored by Board of Research in Nuclear Science, **BARC**, Mumbai and **DRDO**, New Delhi, Organized at Hyderabad, 12th – 13th October 2011.
38. **Naveen Kumar**, K. C. T. Swamy and A. D. Sarma, “Estimation of Ionospheric delay of GPS Signals of

- Space Bound Objects”, National Workshop on Atmospheric and Space Sciences (NWASS-2010), 23-24 November 2010, Organized by University of Calcutta and **URSI Commission ‘F’**.
39. **Naveen Kumar**, A. D. Sarma and K. C. T. Swamy “Analysis of Ionospheric Time Delay of EM signals due to IRI-2007 and Klobuchar Models for Indian Region”, the Third IETE Conference on RF & Wireless – 2010 (Icon RFW -10), 07-09 October 2010 at IETE Bangalore centre, Karnataka, India, Co-sponsored by IETE Bangalore network, **IEEE MTT/AP-S** Bengaluru chapter and ISM special training program.
 40. R. Deepthi, **P. Naveen Kumar**, P. Swetha, “Implementation of Scalable Encryption Algorithm for various parameters”, National Conference on “Mathematical Modelling in Engineering and Technology”, February, 13 & 14, 2010, Hyderabad.
 41. D. Sarma, D. Venkata Ratnam, **P. Naveen Kumar**, G. Praveen, “Investigation of Magnetic Storm Effects on GAGAN System Using MMSE model”, 16th National Space Science Symposium (NSSS – 2010), sponsored by **ISRO**, in association with the Astronomical Society of India, during February 24-27, 2010, Saurashtra University, Rajkot, Gujarat.
 42. Renu Pratap, **P. Naveen Kumar**, “Design of L-band Front end for Software Defined Radio for increased accessibility of Wireless Technology”, 41st **IETE Mid-Term Symposium** on “Taking Telecom & IT Revolution to Rural India-Bridging the Digital Divide”, 9-10 April 2010, Sri Venkateshwara University, Tirupathi, Andra Pradesh, India.
 43. Srikanth, **P. Naveen Kumar**, “Multilevel-Huffman Test Data Compression with Multiple Scan Chain Method”, National Conference on “Recent Trends in Computer Science and Information Technology (**RTICSIT-09**)”, 8-9 May, 2009 at Department of CSIT, Guru Nanak Dev Engineering College, Mailoor Road, Bidar, Karnataka.
 44. **Naveen Kumar**, Sri Giri, G. Aparna, S. Rajitha Rani, P. Swetha, “Design and Implementation of Selective Huffman Coding for Vector Compression”, **International Conference** on Recent Advances in Communication Engineering, 20-23 December 2008, Department of ECE, University College of Engineering, Osmania University, Hyderabad.
 45. **Naveen Kumar P**, “Secured Group Communication in MANETS using Proactive Secret Sharing Along with Threshold Cryptography” was presented at National Workshop on “Mobile Computing” organized by Govt. Institute of Electronics and Dept. of CSE, OU during 5th – 7th June 2008, CSED, OU.
 46. **Naveen Kumar P**, “Intelligent Vehicle Tracking System for Indian Sub-Continent” was presented at National Workshop on “Mobile Computing” organized by Govt. Institute of Electronics and Dept. of CSE, OU during 5th – 7th June 2008, CSED, O
 47. **Naveen Kumar P**, “Re-Engineering Minds” has been presented at National Workshop on “Igniting the Spirit of Innovation in Engineering Students” organized by EDC, SNIST, Hyderabad, during January 24th – 25th January 2008.
 48. P. Naraiah, Perumalla **Naveen Kumar**, Chandra Shekar “Preliminary Analysis of various parameters of NaVIC signals for marine Applications”. National Conference Earthquake : Investigation and Instrumentation, September 23-24, 2019.

Books

S.No	Title	Author's Name	Publisher	Year of Publication
1	Applied Electronics	Dr P. Naveen Kumar	SURE Publications, Hyderabad,Telangana, INDIA	2006

2	Electronic Measurements & Instrumentation	Dr P. Naveen Kumar	SURE Publications, Hyderabad, Telangana, INDIA	2006
---	---	--------------------	--	------

Other Info

1) Reviewer for High Quality Peer Reviewed Journal/Conferences/Symposia

Reviewer for **IEEE Transactions** on Industrial Electronics, IET Radar Sonar and Navigation International Journal (UK), ACM Computing Survey (International Journal), IEEE Antennas and Propagation Magazine and many other IEEE/International/National Conferences/Symposia etc.

2) International Assignments/Visits

1. Visited **Tokyo Metropolitan University (TMU), Tokyo, Japan** in connection with the presentation of research paper at the International Seminar organized by TMU.

2. Presented a research paper at ICCIT-2014 at Newyork, USA during June 2014 and visited three Universities- **Newyork State University, George Washington University and Syracuse University**.

3. Visited Kula Lumpur, Malaysia in connection with Educational Policies in February 2018.

4. Visited **Suan Sunandha Rajabhat University (SSRU)**, Thailand, on November 2018 and had technical discussion and chair in International Conference on Innovation Smart Culture and Well-Being" (ICISW2018) and presented research paper.

5. Visited **Muscat University, Muscat, Oman** in connection with MOU discussions and knowledge transfer on 8th July 2019.

6. Visited **OTH University, Amberg, Germany** in connection with MOU discussions and knowledge transfer on 11th July 2019.

7. Visited **Italy, Vatican city and Czech Republic**

3) Training Programs Organized by Dr.P.NaveenKumar in the Advanced GNSS Research Laboratory, Dept of ECE, UCE, OU

1. One day Training program on "GPStation-6 Ionospheric Scintillation and TEC monitor "organized on 10th August 2016.
2. One day Training program on "Indian Regional Navigation Satellite System (IRNSS) SPS Receiver" (make Data Patterns Pvt Ltd.) organized on 9th March 2017.
3. One day Training program on "IRNSS/GPS/SBAS Receiver" (make Accord Softwares and Systems Pvt.Ltd.) organized on 6th April 2017.
4. One day Practical Training program for ME MRE (PTPG) students on "GNSS/IRNSS Station" organized on 17th June 2017.
5. One day Training Program on "IRNSS/ GPStation 6" for ME MRE regular students organized on 21st June 2017.

6. One day Training program on “Single frequency GNSS/SBAS Hand held Receiver Instrument” organized on 28th June 2017.
7. One-week FDP Training program on “Principles of GNSS, Applications and Research Areas” organized on 04-09, June 2018 at “Advanced GNSS Research Laboratory (AGRL)”, at the Department of Electronics and Communication Engineering, University College of Engineering(A), Osmania University, Hyderabad-500007, Telangana, India.

Place : Hyderabad

Date : 11-08-2021

(Prof. Dr. PERUMALLA NAVEEN KUMAR)