

Name: Dr. Devanaboyina Venkata Ratnam

Designation: Professor

Department: Electronics and Communications Engineering

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Research Areas: Satellite navigation systems, radio wave propagation effects, GPS, Global Navigational Satellite systems and wireless communications.

Ongoing/Completed Sponsored Research Projects:



S. No.	Project Title	Sponsoring Agency	Budget	Status
1.	Investigation of the spatiotemporal variability of thunderstorms from ground-based and geostationary satellite data using Deep-Learning techniques	SERB-CRG	Rs. 21.13 Lakhs	Ongoing
2.	Mitigation of ionospheric scintillation noise effects on Indian Satellite Navigation System (NAVIC) signals using software defined radio GNSS receiver	AICTE-RPS	Rs. 22.37 Lakhs	Ongoing
3.	Development of machine learning based ionospheric scintillations forecasting algorithms using GNSS observations	SERB-CRG	Rs. 20.46 Lakhs	Ongoing
4.	Implementation of Deep Learning Algorithms to develop Web based Ionospheric Time Delays Forecasting System over Indian Region using ground based GNSS and NAVigation with Indian Constellation (NAVIC) observations	ECR-SERB	Rs. 17.97 Lakhs	Completed
5.	Development of Ionospheric TEC Data Assimilation Model based on Kalman Filter using Ground and Space based GNSS and Ionosonde observations	DST-SERB	Rs. 17.50 Lakhs	Completed
6.	Development of single frequency ionospheric correction and plasma bubble detection algorithms using GAGAN and IRNSS TEC observations	SAC-ISRO	Rs. 16.00 Lakhs	Completed

Awards / Honours:

- **DST Young Scientist Award (Govt. of India) (2012-2015).**
- **UGC Research Award (2015-17)**
- **SERB, Early Career Research Award (2017-2020)**
- **Best Teacher Award from KL University (2012)**
- Reviewer: IEEE GRSL, IET Radar Sonar Navigation, IEEE JSTARS, IJRSP, Advances Space Research, Wireless Personal Communications.
- Reviewer: DST-SERB project proposal reviewed in 2013 and 2016.

Professional Memberships: Senior Member IEEE, Member of IE.

Number of Publications: In SCI Journals-86, In SCOPUS Indexed Papers 61, National and International Conferences:27

Links: <https://www.scopus.com/authid/detail.uri?authorId=57219613742>

<https://scholar.google.co.in/citations?user=WmOLREUAAAAJ&hl=en>

Number of PhDs: 10 (Completed), 8 ongoing, **Number of M.Tech Theses:** 10

Invited Lectures: 5, **Seminars/workshops/Conferences:** 4 As a **Co-Convener**

Visits Aboard: Japan, Singapore, Taiwan and Thailand

National and International Research Collaborations: Asian Institute of Technology, Thailand; Space Applications Centre (SAC), ISRO, Ahmedabad; Osmania University, Hyderabad; Korea Advanced Institute Of Science and Technology, Republic of Korea; Tripura Central University, Tripura.