SUHAIL FARHAAN SHAIK

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in suhail-farhaan-shaik

Suhail Farhaan Shaik

INTERNSHIP

Research Internship at NIT Tiruchirapalli

Training and Skill Internship on OTFS for high mobility applications in B5G and 6G wireless communications

J June 2023 - July 2023

• Developed mathematical models to analyze IRS-assisted OTFS systems, evaluating performance gains and limitations for improved wireless communication in future networks.

PROJECTS

Relay assisted Communication(Academic Project) Matlab, Overleaf

🗖 January 2023 - May 2023

- Analyzed the performance of a two hop communication system equipped with AF relay in Rayleigh/Rician fading environments.
- Studied the effect of Relay selection due to outdated channel estimates on DF relays, when operating over Nakagami-m fading channels.

Practical Pulse-Shaping Waveforms for Reduced-Cyclic-Prefix OTFS

Matlab.Overleaf

August 2022 - December 2022

• Analyzed and compared the error performance of OTFS with rectangular and prolate spheroidal waveforms using a block-circulant matrix decomposition, showed a tradeoff between out-of-band radiation and BER.

Plant Disease Detection using Matlab and Arduino Matlab, Arduino

🗖 January 2022 - June 2022

• Developed a Digital Image Processing based technique with the help of K-means Clustering and multi-SVM algorithm for fast and accurate disease detection of plant using MATLAB, and an additional hardware is developed in order to spray corresponding pesticide for the diseased

PUBLICATIONS

Conference Proceedings

S. F. Shaik, S. Soujanya, P. Singh, and E. Sharma, "Two-Fold Physical Layer Security for OTFS-aided RIS communication," in Proceedings of the 25th Wireless Communications and Networking Conference(WCNC), Dubai UAE, 2024.

RELEVANT COURSEWORK

- Mathematics for Machine Learning
- Mobile Computing
- Wireless Communication
- Fundamentals of Radar Sensing
- Detection and Estimation Theory
- Applied Optimization for Wireless Communication

EDUCATION

Masters by Research in NCSP International Institute of Information Technology Bangalore

Aug 2022 - Present

CGPA: 3.28/4.0

B.Tech in Electronics and Communication

Mahamtma Gandhi Institute of Technology

J June 2018 – July 2022 CGPA: 7.28/10

Intermediate (MPC) **Ideal Junior College**

 June 2016 - May 2018

PER: 96.30%

Class X in SSC

Sri Chaithanya Techno School

April 2016 CGPA: 10/10

TECHNICAL SKILLS

Matlab C/C++ Python

Windows

Linux

CERTIFICATION

- 5G for Everyone Coursera(Qualcomm academy)
- Microelectronics NPTEL

STRENGTHS

Hard-working

Problem-solving

Teamwork

Adaptability

LANGUAGES

English Hindi Telugu



ACHIEVEMENTS

Awarded with the student travel grant from IEEE ComSoc to present a paper at its flagship conference IEEE WCNC 2024.