Dr. Salman Raju Talluri

Assistant Professor (Senior Grade)

Department of Electronics and Communications Engineering

Jaypee University of Information Technology, Solan, India

Email: salmanraj7@gmail.com

Contact Number: +917807067978

EDUCATION

Degree	University/Institute	Specialization	Year	Percentage
Ph.D	JUIT, Solan, HP	Non-linear Transmission lines	2017	-
M.Tech	IITK, Kanpur, UP	Microwave Engineering	2009	9.0 CGPA out of 10
B.Tech	ANITS-AU, Vishakhapatnam, AP	Electronics and Communications	2006	76.25 % Distinction
Intermediate	Aditya Junior College, Bhimavaram, AP	Maths, Physics and Chemistry	2002	92.1 %
Secondary School	Surya Public School, Jangareddy Gudem, AP	-	2000	83.17 %

Gate(2007) All India Rank : 313

PROFESSIONAL EXPERIENCE

2006-2007:   Trainee, Astra Microwave Products Limited Hyderabad, A.P, India.

2009-2010:   Engineer, Tejas Networks, Bangalore, India.

2010-2012:   Assistant Professor(Grade-I), Jaypee University of Information Technology, Solan, India.

2012-2017:   Assistant Professor(Grade-II), Jaypee University of Information Technology, Solan, India.

2017-Conti: Assistant Professor(Senior Grade), Jaypee University of Information Technology, Solan, India.

EXPERTISE

Design of dual and multi wide band-pass and band-reject filters

Wideband phase shifters

Waveform synthesis for pulse compression

Optimal beamforming techniques

AREAS OF INTEREST

Microwave Engineering

Radar and Sonar Signal Processing

Microwave Components and Devices

Antenna Theory and Radio Wave propagation

Advanced Digital Signal Processing

MY THESES

Ph.D :

Analysis of transmission line models with non-linear elements for opposite phase and group velocities. Prof. Sunil Bhooshan

M.Tech:

Application of particle swarm optimization for antenna arrays. Prof. Sachidananda and Dr.A. R. Harish

PH. D THESIS UNDER MY GUIDANCE

Robust beamforming algorithms. Diksha Thakur (On going)

M.TECH THESIS UNDER MY GUIDANCE

Analysis of components of Butler Matrix with arbitrary gains and phase shifts. Diksha Thakur, 2018

Design, analysis and mathematical modeling of wideband phase shifters. Vishaka Thakur, 2018

Design of dual bandpass filter using parallel coupled lines. Neelam Kumari, 2017

Design of dual bandpass microwave filters. Maneesh Kumar, 2017

Sidelobe level reduction in pulse compression with classical orthogonal polynomials and Woo filters. Ankur Thakur, 2016

SOFTWARE EXPERTISE

CST Microwave Studio

Autocad

Autodesk Eagle

Matlab

OrCad-Cadence

JOURNAL PUBLICATIONS

(1) Talluri, Salman Raju. "Design of dual band-reject filter based on short circuited parallel couple lines structure at S-band." International Journal of Advances in Microwave Technology 3 (2018): 180-184.

(2) Talluri, Salman Raju. "Design of Wide Band Rejection Filter using All-stop Parallel Coupled Line Canonical Form along with Transmission Line." International Journal of Advances in Microwave Technology 3 (2018): 165-169.

(3) Kumari, Neelam, and Salman Raju Talluri. "A Simple Novel Method of Designing Dualband And Multi-bandpass Filters." International Journal of Advances in Microwave Technology 2 (2017): 131-135.

(4) Talluri, Salman Raju. "Analysis on phase properties of a transmission line model with non-linear elements." Ain Shams Engineering Journal 7.1 (2016): 185-189.

(5) Talluri, Salman Raju. "Effects of highpass filtering on transmitted signals of non-linear frequency modulated radar systems." International Journal of Advances in Microwave Technology 4 (2019): 190-193.

(6) Thakur, Ankur, and Salman Raju Talluri. "Comparative analysis on pulse compression with classical orthogonal polynomials for optimized time-bandwidth product." Ain Shams Engineering Journal 9.4 (2018): 1791-1797.

(7) Diksha Thakur, Vishakha Thakur, Salman Raju Talluri. "A Novel Crossover Design Based on Parallel Coupled Lines Structure." International Journal of Electronics Engineering 2 (2018): 614-623.

(8) Talluri, Salman Raju, and Prabhat Thakur. "Improvement in Time-Bandwidth Product in Pulse Compression with Chebyshev Polynomials of Fourth-Kind." International Journal of Applied Engineering Research 20 (2015): 41394-41399.

(9) Talluri, Salman Raju, and Sunil Vidya Bhooshan. "Effect of a relatively small non-linear capacitor in the unit cell of transmission line model on scattering parameters and propagation constant." International Journal of Applied Engineering Research 16 (2016): 3795-3798.

(10) Talluri, S. R. "Delay properties of a transmission line model with non linear miller loading." International Journal of Applied Engineering Research 14 (2015): 34985-34988.

(11) Thakur, Ankur, and Salman Raju Talluri. "Comparative analysis on an exponential form of pulse with an integer and non-integer exponent to use in pulse compression with better resolution in range and velocity", International Journal of Engineering Research and Applications 11(2015): 104-110.

(12) Diksha Thakur, Vikas Baghel, Salman Raju Talluri. "Design of an Efficient Wideband Beamfomer using OPSO" International Journal of Innovative Technology and Exploring Engineering 2 (2019): 2144-2152.

(13) Thakur, Ankur, and Salman Raju Talluri. "Comparative analysis on an exponential form of pulse with an integer and non-integer exponent to use in pulse compression with better resolution in range and velocity", International Journal of Engineering Research and Applications 11 (2015): 104-110.

CONFERENCES

(1) Talluri, Salman Raju. "(UPCON) A novel distributed T-equivalent circuit model of a microstrip interdigital capacitor." 2018 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON). IEEE, 2018.

(2) Talluri, Salman Raju. "Envelope Modification of the Hyperbolic Frequency Modulated Signal with LC-Filters in order to have a Better Range Resolution in Radar Systems." 2018 International Conference on Communication and Signal Processing (ICCSP). IEEE, 2018.

(3) Talluri, Salman Raju. "Envelope Modification of Non-Linear Frequency Modulated Signals to obtain narrow auto-correlation function with reduced sidelobe levels." 2018 International Conference on New Trends in Engineering and Technology(ICNTET). IEEE, 2018.

(4) Thakur, Ankur, and Salman Raju Talluri. "A novel pulse compression technique for side-lobe reduction using woo filter concepts." 2017 International Conference on Communication and Signal Processing (ICCSP). IEEE, 2017.

(5) Thakur A., Talluri S.R, Kumar S. (2020). "Radial velocity Distortion reduction for NLFM-Based radar system using a Notch filter." In: Singh Tomar G., Chaudhari N., Barbosa J., Aghwariya M.(eds) International Conference on Intelligent Computing and Smart Communication 2019. Algorithms for Intelligent Systems. Springer Singapore.

(6) Thakur A., Talluri S.R, Verma P.K.. (2020). "Chebyshev Polynomial-Based Pulse Compression Waveform for Modern Microwave Radars." In: Singh Tomar G., Chaudhari N., Barbosa J., Aghwariya M.(eds) International Conference on Intelligent Computing and Smart Communication 2019. Algorithms for Intelligent Systems. Springer Singapore.

(7) Kumari, Neelam, Salman Raju Talluri, and Meenakshi Sood. "Multi Bandpass Asymmetrical Filter Design with Parallel Coupled Line Stub." 2019 IEEE 5th International Conference for Convergence in Technology (I2CT). IEEE, 2019.

(8) Thakur, Ankur, Salman Raju Talluri, and Davinder Singh Saini. "Signal generation employing Chebyshev polynomial for pulse compression with small relative side-lobe level." 2017 Third International Conference on Sensing, Signal Processing and Security (ICSSS). IEEE, 2017.

PERSONAL INFORMATION

- Father's Name: Joshi Rao Talluri (Retd. Teacher)

- Date of Birth : 12 July 1985

- Marital Status: Married and have a son of four years

- Religion : Christian

- Personal traits: Soft spoken, Hard working with honesty and integrity.

- Hobbies: Watching news and playing keyboard

- Siblings: Two elder and Two younger sisters

- Permanent Address: Door No. 11-8-26, Gullanki Vari Street Gunipudi, Bhimabvarm West Godavari Dist. Andhra Pradesh. PIN: 534201

DECLARATION

I here by declare that the particulars furnished above are true to the best of my knowledge.

Salman Raju Talluri

Date: 15 July 2020

Place: Waknaghat