

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
Gandipet, Hyderabad 500 075

FACULTY PROFILE

1. JNTUH REGISTRATION ID: **52150404-201425**
2. Name of Faculty: **Dr. T. D. Bhatt**
3. DATE OF BIRTH: **10/11/1962**
4. DESIGNATION: **PROFESSOR**
5. YEARS OF EXPERIENCE: **35 YEARS**
6. EMAIL ID: **tdbhatt_ece@mgit.ac.in**
7. UG DEGREE: **AMIE(I)**
8. PG DEGREE: **M.E. –(SSP)**
9. PH.D : **Radar Signal Processing**
10. SUBJECTS TAUGHT: **RADAR SYSTEMS, OPTICAL COMMUNICATIONS, EMTL, AWP, PDC, EDC, BEEE.**
11. PAPER PUBLICATIONS IN INTERNATIONAL JOURNALS:



1. **T. D. Bhatt**, Rajan, E. G., and Somasekhar Rao, P. V. D., “Design of High-Resolution Radar Waveforms for Multi-Radar and Dense target environments” *International Journal of IET (UK), Radar, Sonar and Navigation*, vol. 5, no. 7, August 2011, pp. 716-725.
2. **T. D. Bhatt**, Rajan, E. G., and Somasekhar Rao, P. V. D., “Design of Frequency Coded Waveforms for Target Detection” *International Journal of IET (UK), Radar, Sonar and Navigation*, vol. 2, no. 5, October 2008, pp. 388-394
3. **T. D. Bhatt**, Rajan, E. G., and Somasekhar Rao, P. V. D., “Target Detection and High Delay Doppler Resolution Measurement Using Adaptive Waveform Radar”, *International Journal of Systemics, Cybernetics and Informatics*, Jan 2008, pp. 62-65.
4. **T. D. Bhatt**, Rajan, E. G., “Electronic Support Measures-An Introduction”, *International Journal of Systemics, Cybernetics and Informatics*, April 2007.
5. B. Krishna Kumari, T. M. Praneeth Naidu, **T. D. Bhatt**, “ SELECTIVE VIDEO COMPRESSION BASED ON ROI USING GAZE LOCATION PREDICTION” *International Journal of IJESR/December 2014/ Vol-4/Issue-12*, pp. 787-793.

6. M.Mounika Yadav , T. M. Praneeth Naidu, **T. D. Bhatt**, "FACIAL RECOGNITION SYSTEM FOR SECURE E-MAIL ACCESS" International Journal of IJESR/December 2014/ Vol-4/Issue-10, pp. 767-770.
7. B. Manohar, **T. D. Bhatt**, " Image Retrieval System using Color and Texture Features using Wavelet Transforms" International Journal of Scientific Engineering and Technology Research, Vol.03, Issue.42 November-2014, Pages:8575-8578.
8. R. Lavanya, S P Singh, **T D Bhatt**, "Polyphase Codes Sidelobe Supression" IJECE, Vol-2, Issue4, Oct-Dec 2014, pp. 47-50
9. **T. D. Bhatt**, S. P. Singh "High-Resolution Adaptive Waveform Radar" International Journal of Advanced Electronics and Radar Technology, 2014, Volume 2, Issue 1, pp. 21-31

12. PAPER PUBLICATIONS IN INTERNATIONAL CONFERENCES:

1. E. N .V. Puran Chandra Rao, S P Singh, **Bhatt T. D.**, **Binary-Codes Sidlobes Reduction Techniques**, International Radar symposium 2015 (IRSI-15) 15-19 Dec, 2015 Bangalore, India
2. E. N .V. Puran Chandra Rao, S P Singh, **Bhatt T. D.**, Orthogonal Forty eight Sequences design using MGA, International Conference on Innovations in Electronics and Communication Engineering (ICIECE-14), 18-19 July 2014, Hyderabad, India
3. E. N .V. Puran Chandra Rao, S P Singh, **Bhatt T. D.**, One Twenty phase code design with good discrimination factor, International Radar symposium 2013 (IRSI-13) 12-14 Dec, 2013 Bangalore, INdia
4. S P Singh, **Bhatt T D**, Sushant Chaudhary "Ninety-phase signal design for Good Merit Factor" Accepted for presentation in International Symposium on Microwaves (ISM-12), Bangalore, India, 11-14 Dec, 2012.
5. E. N. V. Puran Chandra Rao, S P Singh, **Bhatt T D**, E G Rajan "Orthogonal Sixty -phase Sequence Sets Design using MSAA" presented in International Conference ICSCI-2012, Hyderabad, India, 15-18 February 2012.
6. S Babu Rao, S P Singh, **Bhatt T D**, "Sixty-four phase Code Design with Good Ambiguity function" International Conference on Computing, Communications, Systems and Aeronautics (ICCCSA-2012), Hyderabad, 30-31 March 2012, pp. 114-117.
7. **Bhatt, T. D.**, Somasekhar Rao, P. V. D., and Rajan, E. G., "Radar Signal Design for Enhanced Delay-Doppler Resolution for Multi-user and Dense Target Environments", presented in International Radar Symposium India-2011 (IRSI-11) Bangalore, India, 30 Nov - 4 Dec, 2011.
8. **Bhatt, T. D.**, Somasekhar Rao, P. V. D., and Rajan, E. G., "Effects of Amplitude Weighting in Performance Characteristics of Frequency Coded Waveforms", *Proc. of International Conference on ASECI -10*, Vijayawada, India, Jan 2010, pp. 15-18.

9. **Bhatt, T. D.**, Rajan, E. G., and Somasekhar Rao, P. V. D., "High Delay Doppler Resolution Measurement Using Adaptive Waveform Radar", *Proc. of ICSCI - 2008*, Hyderabad, India, 2-5 Jan 2008, pp. 625-629.
10. **Bhatt, T. D.**, Rajan, E. G., and Somasekhar Rao, P. V. D., "Electronic Support Measures and Counter Support Measures", *Proceedings of ICSCI-2007*, Jan 2007, Hyderabad pp. 860-664.
11. Singh S. P., **Bhatt T. D.**, "Moving Target detection using Real-Time Signal Processing on DSP Processor", *Proceedings of ICSCI-2004*, Feb 12-15, Hyderabad, pp. 5-8.
12. Singh S. P., **Bhatt T. D.**, Nageswara Rao M. V., "A Direct digital Frequency Synthesizer using an IIR Resonator Implemented with a DSP TMS 320 C5X", *Proceedings of ICSCI-2004*, Feb 12-15, Hyderabad, pp. 9-13.
13. Nageswara Rao M. V., **Bhatt T. D.**, Singh S. P., "Extraction of Linear and Curvilinear Road Segments from Satellite Images", *Proceedings of ICSCI-2004*, Feb 12-15, Hyderabad, pp. 348-353

13. PAPER PUBLICATIONS IN NATIONAL CONFERENCES:

1. **Bhatt T. D.**, Singh S P, "Radar Signal Identification Using Real Time Processing" on DSP TMS 320 C5X" presented in the seminar on State of Art Technologies (SAT-03) held in September 2003 in IETE, Viskhapatnam.
2. Singh S P, **Bhatt T. D.**, Roy D P, "Radar Signal Processing For Detection Of Target Embedded In Clutter " presented in the seminar on State of Art Technologies (SAT-03) held in September 2003 in IETE, Viskhapatnam.
3. **Bhatt T D.**, Soni N B., "Extremely Low Frequency (ELF) Radiation from Electrical Power Lines and the Genetic Effects of Power Frequency Fields" National seminar on power systems and new challenges, Institution of Engineers (India), Hyderabad, July 2003.

14. RESEARCH PROJECTS UNDERTAKEN WITH NAME OF THE SPONSORING AGENCY: "Moisture Level Monitoring" Institution of Engineers (India)

15. RESEARCH GUIDANCE: Guiding 01

16. CONTRIBUTIONS AT THE DEPARTMENTAL LEVEL:

- (a) Coordinator NBA, NAAC
- (b) Faculty In-charge for I -Year
- (c) Member Academic Council ECE Department.

17. CONTRIBUTIONS AT THE COLLEGE LEVEL:

- (a) Additional In-charge AES for 4 years

(b) Transport In-charge – 2.5 Years

(c) Security In-charge MGIT

18. REFRESHER COURSES/ WORKSHOPS/CONFERENCES ATTENDED: 14

19. WORKSHOPS/ CONFERENCES/SEMINARS/FDP's ORGANIZED: 03

20. INVITED LECTURES DELIVERED: 11

21. MEMBERSHIP OF PROFESSIONAL BODIES: Fellow IETE and Life Member if ISTE

22. ANY OTHER CONTRIBUTION:

(a) Reviewer of International Journal "IET Radar Sonar & Navigation"

(b) Member BOS "Malla Reddy College of Engg. & Technology"