

### ***Personal Information***

Name	Mr.Thottempudi Pardhu
Years of Experience	Teaching: 9 Years 10 Months
Email Id	<a href="mailto:pardhu.t@bvrithyderabad.edu.in">pardhu.t@bvrithyderabad.edu.in</a>
Areas of Specialization	RADAR Signal Processing



### ***Educational Qualifications***

Doctoral Degree	Ph.D.	ECE – RADAR Signal Processing (Pursuing)
PG Degree	M.Tech.	Embedded Systems
UG Degree	B.E.	Electronics and Communications Engineering

### ***Patent Filed/Published/ Granted***

#### ***1.Power Efficient Compressor Using Full Adder Circuit***

***Inventor: Thottempudi Pardhu***

***Status: Published on 29/08/2014 pp:60***

***Application Number:3975/CHE/2014***

#### ***2. WEED IDENTIFYING ROVER***

***Inventor: Thottempudi Pardhu***

***Status: Issued06/10/2021***

***Design Number: 347292-001***

#### ***3.ARTIFICIAL INTELLIGENCE BASED HUMANOID ROBOT FOR SURVILLANCE AND SECURITY***

***Inventor: Thottempudi Pardhu***

***Status: Applied (Replied to FER)***

***Application Number:377792-001***

### ***Papers Published***

#### ***International Journal Publications***

- 1 Thottempudi Pardhu, Vijay Kumar, “HUMAN MOTION CLASIFICATION USING IMPULSE RADIO ULTRA WIDE BAND THROUGH WALL RADAR MODEL”** Accepted for Publication in Multimedia Tools and applications Journal (**Accepted ( SCI Expanded, Scopus Indexed).** (**Impact Factor: 2.577**))
- 2 Thottempudi Pardhu, Vijay Kumar, “EXPERIMENTAL STUDY OF THROUGH THE WALL IMAGING FOR THE DETECTION OF VITAL SIGNS USING SFWR”** published in Indonesian Journal of Electrical Engineering and Computer Science (IJECS), Vol-24, Issue, 2, PP:825-830 in November 2021(**Scopus Indexed**).
- 3 Thottempudi Pardhu, Vijay Kumar, “NOVEL IMPLEMENTATIONS OF CLUTTER AND TARGET DESCRIMINATION USING THRESHOLD SKEWNESS METHOD”** published in Traitment Du Signal, Vol-38, Issue, 4, PP:1079–1085 in August 2021(**SCI Expanded, Scopus Indexed**). (**Impact Factor: 2.589**)

- 4 **Thottempudi Pardhu**, D.V.S.ChandraBabu, E.Amareshwar “DESIGN OF OBSTACLE DETECTION SYSTEM FOR VISUALLY CHALLENGED PEOPLE” In *International Journal of Recent Technology and Engineering (IJRTE)* , V-8, I-5 ,Jan2020, PP-5-8.
- 5 **Thottempudi Pardhu**, R.Sateesh, K.Naveen, K.ManiRaj“IMPLEMENTATION OF STEGANOGRAPHIC ALGORITHMS BASED ON EXACT HISTOGRAM MATCHING AND COLOUR VISUAL CRPTOGRAPHY” In *International Journal of Engineering and Advanced Technology. (IJEAT)*, V-9, I-2, Dec2019, PP-519-522.
- 6 **Thottempudi Pardhu**, Vijay Kumar, “AN INVESTIGATION ON HUMAN IDENTIFICATION BEHIND THE WALL” in *Journal of Advance Research on Dynamically and Control Systems (JARDCS)*, June 2018, V-10, I-3 (**Scopus Indexed**).
- 7 **Thottempudi Pardhu**, Jyothi Kalyan, R.Karthik “SEPERATION OF MUSIC AND VOICE USING REPETIVE PATTERN” In *International Journal of Civil Engineering and Technology (IJCIET)* 2017(**Reflecting in Scopus**)
- 8 K.Jyothi, E. Amareshwar, T.Vijetha, **Thottempudi Pardhu**, R.Karthik “ATE FOR ACTIVE PHASE ARRAY RADAR – MINI REVIEW “ in *International Journal of Mechanical Engineering and Technology (IJMET)* 2017 (**Reflecting in Scopus**)
- 9 R.Karthik, K.Jyothi, T.Vijetha, **Thottempudi Pardhu** “IMPLEMENTATION OF AUTOMATIC TEST EQUIPMENT FOR LINE REPLACABLE UNITS OF ACTIVE PHASED ARRAY RADAR” in *International Journal of Mechanical Engineering and Technology(IJMET)*2017(**Reflecting in Scopus**)
- 10 **Thottempudi Pardhu**, Vijay Kumar “REDUCTION OF CLUTTER USING TWI ULTRA WIDEBAND RADAR IMAGING” in *International Journal of Ultra-Wide band Communications and Systems (IJUWBCS)*, V-3, I-2 June-2016. (**Reflecting in Scopus**)
- 11 **Thottempudi Pardhu** “MEDICAL IMAGE RETRIVAL USING DISCRETE WAVELET TRANSFORM” in *IOSR Journal of Electronics and Communication Engineering (IOSRJCE)*V-10, i-3, Jun-2015, PP:26-30
- 12 **Thottempudi Pardhu**, N.Alekhya Reddy “FPGA DESIGN OF CLUTTER GENERATOR FOR RADAR TESTING” in *Circuits And Systems: An International Journal (CSIJ)* V-2, Issue-1, Jan-2015, PP:13-24
- 13 **Thottempudi Pardhu**, A.KavyaSree ,K.Tanuja “DESIGN OF MATCHED FILTER FOR RADAR APPLICATIONS” in *Electrical And Electronics Engineering: An International Journal (ELELIJ)* V-3,Issue-4,Nov-2014,pp:1-11
- 14 **Thottempudi Pardhu**, Usha Rani Neelakuditi, P.Suresh “NOVELCHARACTARIZATION AND GENERATION OF RADAR VOLUME CLUTTER USING FPGA” in *International Journal of Applied Engineering Research (IJAER)*V-9,Issue-21,Sep-2014,pp:8523-8532(**Reflecting in Scopus**)

- 15 **Thottempudi Pardhu**, K.N.Bhushan, HarshaVardhanReddy“IMPLEMENTATION OF LEAST MEAN SQUARE ALGORITHM FOR SPEECH ENHANCEMENT USING FPGA”in *American Journal of Engineering research( AJER)*.V-3, Issue-2, Feb-2013,pp:90-95
- 16 **Thottempudi Pardhu**, Thottempudi Nagateja, K.N.Bhushan, N.Usha Rani “GENERATION OF CRYPTOGRAPHICALLY SECURED PSEUDO RANDOM NUMBERS USING FPGA” in *International Journal of Electronics And Communication Engineering And Technology (IJECE)*.V-5,Issue-2,Feb-2014,pp:21-29
- 17 **T.Pardhu**, K.RamBabu, B.Nagi Reddy “IMPLEMENTATION OF A FULLLADDER CIRCUIT WITH NEW FULL SWING EX-OR / EX-NOR GATES” in *International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE)*, V-2,Issue-12, Dec-2013, pp: 1000-1005.
- 18 **T.Pardhu**, B.Nagi Reddy , K.Chakravaradhan Reddy “ A CO-ORDINATIONCONTROL OF A NEW HYBRID MICRO GRID SYSTEM FOR AC/DC WITH REDUCED MULTIPLE CONVERSIONS” in *International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE)*, V-2, Issue-12,Dec-2013, pp:927-934
- 19 **Thottempudi Pardhu** “DESIGN OF RECTANGULAR PATCH MICRO STRIP ANTENNA FOR APPLICATIONS IN X-BAND” Communicated to *International Journal of Signal and Imaging Systems Engineering (IJSISE)*.**(Under Review)**
- 20 **Thottempudi Pardhu**, Dr.Vijay Kumar “TARGET DETECTION USING ADVANCED SEA CLUTTER MODELS” Communicated to *International Journal of Adaptive Control and Signal Processing*. **(Under Review)**
- 21 **Thottempudi Pardhu**, Vijay Kumar, “UWB RADAR BASED HUMAN POSTURE BEHIND THE WALL” Communicated to *Journal of Information Science and Engineering (JISE)***(Under Review)** ( *SCI Expanded, Scopus Indexed*).
- International Conference Publications*
1. **T.Pardhu**, D.V.S.C.Babu, S.V.S.Prasad “RECOGNITION OF MOVING HUMAN TARGETS BY THROUGH THE WALL IMAGING RADAR USING RAMA AND SIA ALGORITHMS” in *6<sup>th</sup> International Conference on Emerging Applications of Information Technology 2021 (EAIT 2021)*Organized by Kalyani University.**(Reflecting in Scopus)**
  2. D.V.S.C.Babu, **T.Pardhu** ,Ch.Babaiah ,G.Kaushik, “DESIGN AND IMPLEMENTATION OF AUTOMATIC HAND SANITIZER DISPENSER USING AURDINO AND ULTRASONIC SENSOR” IN *4<sup>th</sup> Intentional Conference on Advancements in Aero Mechanical Materials for Manufacturing 2021 (ICAAMM 2021)*
  3. D.V.S.C.Babu, **T.Pardhu** ,Ch.Babaiah ,G.Kaushik, “SELF ADAPTIVE TLC USING VERILOG HDL” IN *4<sup>th</sup> Intentional Conference on Advancements in Aero Mechanical Materials for Manufacturing 2021 (ICAAMM 2021)*

4. K.Jyothi, **T.Pardhu**, R.Karthik “DESIGN METHODOLOGY TO CHECK THE QUALITY OF THE IMAGE IN A MOBILE ENVIRONMENT –STATE OF THE ART” in the proceedings of *IEEE International Conference on Intelligent Sustainable Systems (ICISS 2017)*.
5. P.ChandraSekhar, R.Karthik, **T.Pardhu** “DESIGN AND IMPLEMENTATION OF CMOS VOLTAGE CONTROLLED OSCILLATOR (VCO) WITH MINIMUM TRANSISTORS” in the proceedings of *IEEE International Conference on Intelligent Sustainable Systems (ICISS2017)*.
6. **T.Pardhu**, R.Karthik “NOVEL STEGANOGRAPHIC ALGORITHMS BASED ON COLOUR VISUAL CRYPTOGRAPHY /EXACT HISTOGRAM MATCHING” in *World Summit on Advances in Science, Engineering and Technology 2018* Organized at Cambridge University, London.
7. **T.Pardhu**, Vijay Kumar,” IMPLEMENTATION OF TWI USING UWB RADAR SIGNALS” in the proceedings of *International Conference on Recent Trends in Engineering, Science & Technology 2016 (ICRTEST2016)*, (**Reflecting in IET Digital Library**).
8. **Thottempudi Pardhu**, P.Bhaskara Rao “DIGITAL IMAGE WATERMARKING IN FREQUENCY DOMAIN” in the proceedings of *IEEE International Conference on Communication and Signal Processing 2016(ICCSP2016)*.(**Reflecting in Scopus**)
9. **Thottempudi Pardhu**, P.Bhaskara rao “A DESIGN AND ANALYSIS OF LINEAR FEEDBACK SHIFT REGISTER USING GATE CLOCK” in the proceedings of *IEEE International Conference on Electronics and Communications Systems 2016(ICECS2016)*.
10. **Thottempudi Pardhu**, N.Alekhya Reddy “DESIGN OF ULTRA LOW POWER MULTIPLIERS USING HYBRID ADDERS” in the proceedings of *IEEE International Conference on Communication and Signal Processing 2015(ICCSP2015)*.(**Reflecting in Scopus**)
11. **Thottempudi Pardhu**, N.Alekhya Reddy “FPGA BASED DESIGN AND IMPLEMENTATION OF ARITHMETIC CODER” in the proceedings of *IEEE International Conference on Electronics and Communications Systems 2015(ICECS2015)*.
12. **Thottempudi Pardhu**, S.Manusha, K.Sirisha “A LOW POWER FLASH ADC WITH WALLACE TREE ENCODER” in the proceedings of *IEEE International Conference on Wireless And Optical Communication 2014(WOCN2014)*(**Reflecting in Scopus**)
13. **Thottempudi Pardhu**, S.Manusha, K.Sirisha “LOW POWER VLSI COMPRESSOR FOR BIOMEDICAL APPLICATIONS” in the proceedings of *International Conference on VLSI 2014(VLSI2014)*pp:111-120
14. **Thottempudi Pardhu**, Sunkara Harshitha “DESIGN OF DIGITAL FREQUENCY METER USING VHDL” in the proceedings of *IEEE International Conference on Communication and Signal Processing 2014(ICCSP2014)* pp:465-469(**Reflecting in Scopus**)

15. **Thottempudi Pardhu**, Usharani Neelakuditi, Suresh Pampana “GENERATION AND VALIDATION OF GAUSSIAN NOISE USING GAUSSIAN SEQUENCE” in the proceedings of *IEEE International Conference on Electronics and Communications Systems 2014(ICECS2014)* pp:271-275.(Reflecting in Scopus)
16. Anil Kumar Komari, **T.Pardhu**, R.Ashok “MONITORING PATIENTS SIGNS WIRELESSLY” in the proceedings of *International conference on Communications Networking And Signal Processing (ICCNASP-2013)* pp:338-341
17. **Thottempudi Pardhu**, Usha Rani Neelakuditi, P.Suresh “NOVEL RANDOM SEQUENCE GENERATION AND VALIDATION USING FPGA” in the proceedings of *International conference on Communications Networking And Signal Processing (ICCNASP-2013)* pp:295-298

#### ***FDP's Attended***

1. Attended One-week FDP on **Neural Networks and CNN** organized by **National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh** from 11/05/2020 to 15/05/2020.
2. Attended Online Training Program on **OMNI DIRECTIONAL ANTENNA USING HFSS**, Jointly organized by IEEE, Entuple technologies on 15/05/2020.
3. Attended Online Training Program on **RECONFIGURABLE ANTENNAS** organized by **Narasaraopet Engineering College** on 26/05/2020.
4. Attended ATAL FDP on **Role of AI and Machine Learning in Electronics Engineering** organized by **Bhilai Institute of Technology, Durg** from 08/11/2021 to 12/11/2021
5. Attended ATAL FDP on **Artificial Intelligence in Teaching and Learning** organized by **CENTRAL UNIVERSITY OF TAMILNADU** from 22/11/2021 to 26/11/2021

#### ***Professional Memberships:***

- 1 Member of IEEE from 2015 onwards (93233837)
- 2 Life Member of ISTE from 2015 onwards (LM102251)
- 3 Associate Member of IETE From 2015 onwards (AM237484)
- 4 Member of IAENG from 2018 onwards (214834)

#### **Monographs:**

1. **Thottempudi Pardhu** “A RESEARCH BOOK ON GENERATION AND SIMULATION OF CLUTTER FOR RADAR TESTING USING FPGA” in **LAMBERT ACADEMIC PUBLISHERS, Germany**. ISBN:978-3-659-75129-5
2. **Thottempudi Pardhu** “DESIGN AND IMPLEMENTATION OF 4X2 COMPRESSORS USING NEW XNOR MODULES” in **LAMBERT ACADEMIC PUBLISHERS, Germany**. ISBN:978-3-659-85160-5
3. **Thottempudi Pardhu** “NOVEL APPROACH FOR DETECTION OF OBJECTS IN SURVEILLANCE VIDEOS” in **LAMBERT ACADEMIC PUBLISHERS, Germany**. ISBN:978-620-2-09261-6

4. **Thottempudi Pardhu** “ESTIMATION OF MULTIPLE CHANNEL PARAMETERS IN MIMO ENVIRONMENT “in *LAMBERT ACADEMIC PUBLISHERS, Germany*.ISBN:978-620-0-27421-2
5. **Thottempudi Pardhu** “PORTRAYAL AND SPECTRAL ANALYSIS OF WATER BODIES FROM SATELLITE IMAGES “in *LAMBERT ACADEMIC PUBLISHERS, Germany*.ISBN:978-613-7-43108-5
6. **ThottempudiPardhu** , Sandeep Kumar Kavuru “CONTROLLING OF ROBOTIC VEHICLE BASED ON BCI “in *LAMBERT ACADEMIC PUBLISHERS, Germany*.ISBN:978-620-5-51145-9

#### **Review Responsibilities:**

1. Reviewer of “**International Journal of Advance Research in Science and Engineering (IJARSE)**”
2. Reviewer of “**Computer Applications: International Journal (CAIJ)**”.
3. Editor of “**MAT JOURNALS**”
4. Editorial Board Member of “**WSEAS Publications**”

#### **Research Memberships & Identifiers:**

1. ORCID: [orcid.org/0000-0002-9653-1951](https://orcid.org/0000-0002-9653-1951)
2. Scopus Author Id: [56352510500](https://scopus.com/authid/detail.uri?authorId=56352510500)
3. Resercher Id :[G-4161-2014](https://orcid.org/G-4161-2014)
4. Google Scholar link :<https://scholar.google.co.in/citations?user=TxMg8-AAJ&hl=en>
5. Research Gate link: [https://www.researchgate.net/profile/Pardhu\\_Thottempudi](https://www.researchgate.net/profile/Pardhu_Thottempudi)

#### **Awards:**

1. Winner of **India Independence Awards 2019 Young Scientist Award** by IARDO
2. Winner of **Indo Thai Best Research Scholar Award** by Kasetsart University, Thailand
3. Winner of **Young Scientist Global Education Award 2020** by Prime Time Research supported by CNN and NEWS18
4. Winner of **India Star Golden Award 2020** by India Star Book of Records.
5. Winner of **Young Researcher of the Year 2020** in Asian Education Awards.
6. Winner of **Young Researcher of the Year 2021**in Education Excellence Awards.
7. *Winner of Bharath ke Sitare Young Researcher of the year 2022*