

# Linga Reddy Cenkeramaddi

## List of Publications by Year in descending order

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80  
papers

817  
citations

687363

13  
h-index

610901

24  
g-index

81  
all docs

81  
docs citations

81  
times ranked

506  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Bollard Segmentation and Position Estimation From Lidar Point Cloud for Autonomous Mooring. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.           | 6.3 | 8         |
| 2  | Spectrum cartography techniques, challenges, opportunities, and applications: A survey. Pervasive and Mobile Computing, 2022, 79, 101511.                                | 3.3 | 11        |
| 3  | Embedded Sensors, Communication Technologies, Computing Platforms and Machine Learning for UAVs: A Review. IEEE Sensors Journal, 2022, 22, 1807-1826.                    | 4.7 | 42        |
| 4  | Design and Implementation of Density Sensor for Liquids Using Fiber Bragg Grating Sensor. IEEE Photonics Journal, 2022, 14, 1-6.   | 2.0 | 3         |
| 5  | Radio Frequency Spectrum Sensing by Automatic Modulation Classification in Cognitive Radio System Using Multiscale Deep CNN. IEEE Sensors Journal, 2022, 22, 926-938.    | 4.7 | 12        |
| 6  | Improving Quality-of-Service in Cluster-Based UAV-Assisted Edge Networks. IEEE Transactions on Network and Service Management, 2022, 19, 1903-1919.                      | 4.9 | 11        |
| 7  | Enhanced User Grouping and Pairing Scheme for CoMP-NOMA-based Cellular Networks. , 2022, , .   |     | 4         |
| 8  | Low resolution thermal imaging dataset of sign language digits. Data in Brief, 2022, 41, 107977.   | 1.0 | 4         |
| 9  | Updating thermal imaging dataset of hand gestures with unique labels. Data in Brief, 2022, 42, 108037.   | 1.0 | 3         |
| 10 | Lightweight deep convolutional neural network for background sound classification in speech signals. Journal of the Acoustical Society of America, 2022, 151, 2773-2786. | 1.1 | 5         |
| 11 | GPS Spoofing Detection and Mitigation for Drones Using Distributed Radar Tracking and Fusion. IEEE Sensors Journal, 2022, 22, 11122-11134.                               | 4.7 | 39        |
| 12 | Reinforcement Learning Based Fault-Tolerant Routing Algorithm for Mesh Based NoC and Its FPGA Implementation. IEEE Access, 2022, 10, 44724-44737.                        | 4.2 | 7         |
| 13 | SIC-RSRA for Massive Machine-to-Machine Communications in 5G Cellular IoT. , 2022, , .   |     | 0         |
| 14 | Video Hand Gestures Recognition Using Depth Camera and Lightweight CNN. IEEE Sensors Journal, 2022, 22, 14610-14619.   | 4.7 | 24        |
| 15 | Reward criteria impact on the performance of reinforcement learning agent for autonomous navigation. Applied Soft Computing Journal, 2022, 126, 109241.                  | 7.2 | 8         |
| 16 | Design and Implementation of Deep Learning Based Contactless Authentication System Using Hand Gestures. Electronics (Switzerland), 2021, 10, 182.                        | 3.1 | 32        |
| 17 | Angle and Height Estimation Technique for Aerial Vehicles using mmWave FMCW Radar. , 2021, , .   |     | 6         |
| 18 | Object Classification Technique for mmWave FMCW Radars using Range-FFT Features. , 2021, , .   |     | 10        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Current Modulation Induced Stability in Laser Diode Under High Optical Feedback Strength. IEEE Access, 2021, 9, 49537-49546.   | 4.2  | 4         |
| 20 | Anam-Net: Anamorphic Depth Embedding-Based Lightweight CNN for Segmentation of Anomalies in COVID-19 Chest CT Images. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 932-946.              | 11.3 | 95        |
| 21 | A Novel Angle Estimation for mmWave FMCW Radars Using Machine Learning. IEEE Sensors Journal, 2021, 21, 9833-9843.   | 4.7  | 22        |
| 22 | Deep Learning-Based Sign Language Digits Recognition From Thermal Images With Edge Computing System. IEEE Sensors Journal, 2021, 21, 10445-10453.  | 4.7  | 33        |
| 23 | Mini-COVIDNet: Efficient Lightweight Deep Neural Network for Ultrasound Based Point-of-Care Detection of COVID-19. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2023-2037. | 3.0  | 50        |
| 24 | Localization and Activity Classification of Unmanned Aerial Vehicle Using mmWave FMCW Radars. IEEE Sensors Journal, 2021, 21, 16043-16053.   | 4.7  | 39        |
| 25 | LTE-based passive radars and applications: a review. International Journal of Remote Sensing, 2021, 42, 7489-7518.   | 2.9  | 4         |
| 26 | Classification of Targets Using Statistical Features from Range FFT of mmWave FMCW Radars. Electronics (Switzerland), 2021, 10, 1965.  | 3.1  | 13        |
| 27 | Target Classification by mmWave FMCW Radars Using Machine Learning on Range-Angle Images. IEEE Sensors Journal, 2021, 21, 19993-20001.   | 4.7  | 30        |
| 28 | A Velocity Estimation Technique for a Monocular Camera Using mmWave FMCW Radars. Electronics (Switzerland), 2021, 10, 2397.  | 3.1  | 4         |
| 29 | Flexible Spare Core Placement in Torus Topology Based NoCs and Its Validation on an FPGA. IEEE Access, 2021, 9, 45935-45954.   | 4.2  | 9         |
| 30 | Fault-Tolerant Application-Specific Topology-Based NoC and Its Prototype on an FPGA. IEEE Access, 2021, 9, 76759-76779.  | 4.2  | 3         |
| 31 | Joint Resource Allocation and UAV Scheduling With Ground Radio Station Sleeping. IEEE Access, 2021, 9, 124505-124518.  | 4.2  | 5         |
| 32 | Robust Hand Gestures Recognition Using a Deep CNN and Thermal Images. IEEE Sensors Journal, 2021, 21, 26602-26614.   | 4.7  | 28        |
| 33 | Cyber-Physical Systems for Smart Water Networks: A Review. IEEE Sensors Journal, 2021, 21, 26447-26469.  | 4.7  | 4         |
| 34 | Architectural Implementation of a Reconfigurable NoC Design for Multi-Applications. , 2021, , .  |      | 0         |
| 35 | Recent Advances and Future Directions of Microwave Photonic Radars: A Review. IEEE Sensors Journal, 2021, 21, 21144-21158.   | 4.7  | 28        |
| 36 | Localization of Multi-Class On-Road and Aerial Targets Using mmWave FMCW Radar. Electronics (Switzerland), 2021, 10, 2905.   | 3.1  | 2         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Rate-Splitting Random Access Mechanism for Massive Machine Type Communications in 5G Cellular Internet-of-Things. , 2021, , .   |     | 5         |
| 38 | RAMAN: Reinforcement Learning Inspired Algorithm for Mapping Applications onto Mesh Network-on-Chip. , 2021, , .  |     | 5         |
| 39 | Hand Gesture Classification Using Grayscale Thermal Images and Convolutional Neural Network. , 2021, , .  |     | 1         |
| 40 | Face Recognition using mmWave RADAR imaging. , 2021, , .  |     | 2         |
| 41 | A Self-Powered Long-range Wireless IoT Device based on LoRaWAN. , 2020, , .   |     | 2         |
| 42 | Message from the Technical Program Chairs iSES 2020. , 2020, , .  |     | 0         |
| 43 | Autonomous Mooring towards Autonomous Maritime Navigation and Offshore Operations. , 2020, , .  |     | 4         |
| 44 | Novel Fault-Tolerant Routing Technique for ZMesh Topology based Network-on-Chip Design. , 2020, , .   |     | 1         |
| 45 | A Survey on Sensors for Autonomous Systems. , 2020, , .   |     | 26        |
| 46 | Fault-Tolerant Application Mapping on to ZMesh topology based Network-on-Chip Design. , 2020, , .   |     | 1         |
| 47 | Design and implementation of a long-range low-power wake-up radio for IoT devices. , 2019, , .  |     | 8         |
| 48 | Multi-application Based Network-on-Chip Design for Mesh-of-Tree Topology Using Global Mapping and Reconfigurable Architecture. , 2019, , .  |     | 12        |
| 49 | The Modular X- and Gamma-Ray Sensor (MXGS) of the ASIM Payload on the International Space Station. Space Science Reviews, 2019, 215, 1.   | 8.1 | 42        |
| 50 | Design and implementation of a long-range low-power wake-up radio and customized DC-MAC protocol for LoRaWAN. , 2019, , .   |     | 3         |
| 51 | Phase-noise Impact on the Performance of mmWave-radars. , 2019, , .   |     | 0         |
| 52 | Multi-application Based Fault-Tolerant Network-on-Chip Design for Mesh Topology Using Reconfigurable Architecture. Communications in Computer and Information Science, 2019, , 442-454. | 0.5 | 1         |
| 53 | Feedback Biasing Based Adjustable Gain Ultrasound Preamplifier for CMUTs in 45nm CMOS. , 2018, , .  |     | 0         |
| 54 | Self-Powered IoT Device for Indoor Applications. , 2018, , .  |     | 29        |

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|----|---|-----|-----------|
| 55 | Self-powered IoT Device based on Energy Harvesting for Remote Applications. , 2018, , .   |     | 11        |
| 56 | Design and Prototype Implementation of Long-Range Self-Powered Wireless IoT Devices. , 2018, , .  |     | 13        |
| 57 | Sensor Data Compression Based on Re-Quantization of Sensor Data. , 2018, , .  |     | 0         |
| 58 | Smart Brewery Controller. , 2018, , .   |     | 0         |
| 59 | Design of Software and Data Analytics for Self-Powered Wireless IoT Devices. , 2018, , .  |     | 2         |
| 60 | UDP flows in Cognitive Radios with Channel Aggregation and Fragmentation: A Test-bed Based Evaluation. , 2018, , .  |     | 1         |
| 61 | Design and Implementation of an Ultra-Low Power Wake-up Radio for Wireless IoT Devices. , 2018, , .   |     | 10        |
| 62 | Design, Development and Deployment of Low-Cost Short-Range Self-Powered Wireless IoT Devices. , 2018, , .   |     | 1         |
| 63 | Fault Tolerant Routing Methodology for Mesh-of-Tree based Network-on-Chips using Local Reconfiguration. , 2018, , .   |     | 2         |
| 64 | Radio measurements on a customized software defined radio module: A case study of energy detection spectrum sensing. , 2017, , .                                |     | 2         |
| 65 | Experimental validation for spectrum cartography using adaptive multi-kernels. , 2017, , .  |     | 0         |
| 66 | Implementation of a two stage fully-blind self-adapted spectrum sensing algorithm. , 2017, , .  |     | 0         |
| 67 | Spectrum cartography using adaptive radial basis functions: Experimental validation. , 2017, , .  |     | 1         |
| 68 | Mixed signal system design (A project based course). , 2014, , .  |     | 1         |
| 69 | BGO front-end electronics and signal processing in the MXGS instrument for the ASIM mission. , 2012, , .  |     | 0         |
| 70 | Low-energy CZT detector array for the ASIM mission. , 2012, , .   |     | 4         |
| 71 | Inverter-based 1ÅV analog front-end amplifiers in 90Ånm CMOS for medical ultrasound imaging. Analog Integrated Circuits and Signal Processing, 2011, 67, 73-83. | 1.4 | 1         |
| 72 | Clock jitter impact on the performance of general charge sampling amplifiers. Analog Integrated Circuits and Signal Processing, 2010, 63, 93-100.               | 1.4 | 2         |

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|----|---|-----|-----------|
| 73 | 1V transimpedance amplifier in 90nm CMOS for medical ultrasound imaging. , 2009, , .  |     | 2         |
| 74 | Inverter-based 1V transimpedance amplifier in 90nm CMOS for medical ultrasound imaging. , 2009, , .   |     | 0         |
| 75 | Front-end IC design for intravascular ultrasound imaging. , 2008, , .   |     | 2         |
| 76 | Readout and Control Circuit for a Four Pixel Digital Camera as Semester Project. , 2007, , .  |     | 0         |
| 77 | Analysis and Design of a 1V Charge Sampling Readout Amplifier in 90nm CMOS for Medical Imaging. , 2007, , .   |     | 4         |
| 78 | Self-biased charge sampling amplifier in 90nm CMOS for medical ultrasound imaging. , 2007, , .  |     | 2         |
| 79 | A new, high-voltage 4H-SiC lateral dual sidewall schottky (LDSS) rectifier: theoretical investigation and analysis. IEEE Transactions on Electron Devices, 2003, 50, 1690-1693. | 3.0 | 5         |
| 80 | 2D-simulation and analysis of lateral SiC N-emitter SiGe P-base Schottky metal-collector (NPM) HBT on SOI. Microelectronics Reliability, 2003, 43, 1145-1149.                   | 1.7 | 4         |