

**Madanapalle Institute of Technology and Science
(UGC Autonomous)
Department of Electronics & Communication Engineering**

Faculty Journal Publications, Academic Year 2016-2017

S. No.	Name(s) of Author(s)	Title of the Paper	Name of the Journal/Conference/ Book	Vol. No/ Issue No. /Page. No/ Month/ Year	DOI/ISSN	Publisher /Indexing	Impact Factor	Citation
1	Nagarjuna Reddy A., Hari Krishnan G., Raghuram D.	Real time patient health monitoring using raspberry PI	Research Journal of Pharmaceutical, Biological and Chemical Sciences	7/6/570-575/12-2016	ISSN: 0975-8585	RJPBCS/Scopus	--	--
2	Thamarai M., Shanmugalakshmi R.	Video coding technique with multi objective particle swarm optimization and EZW	Journal of Electrical Engineering and Technology	11/5/1404-1411/6/year 2016	DOI: 10.5370/JEET.2016.11.5.1404/ISSN: 2093-7423	Korea Publisher/Scopus	0.28	--
3	Sai Sanath Kumar K., Naveen Kumar Reddy K., Pushpavathy V., Raja Reddy P., Sharma D., Sharma P.K., Vamsi Krishna, B.	Calculation of path losses at CM3 for wireless body area networks (WBAN) by using different types of antennas	International Journal of Applied Engineering Research	11/7/5210-5217/May,2016	ISSN: 0973-4562	RIP/Scopus	--	2
4	Thamarai M., Mohanbabu K.	An improved image fusion and segmentation using FLICM with GA for medical diagnosis	Indian Journal of Science and Technology	9/12/1-10/March,2016	DOI: 10.17485/ijst/2016/v9i12/88176 ISSN: 0974-5645	SJR/SCI	5.07	1

**Madanapalle Institute of Technology and Science
(UGC Autonomous)**

5	Sakthisudhan K., Saravana Kumar N.	Certain Study on Improvement of Bandwidth in 3 GHz Microstrip Patch Antenna Designs and Implemented on Monostatic Radar Approach for Breast Cancer Diagnosis in Microwave Imaging System	Journal of Circuits, Systems and Computers	25/2/1650006-32/2016	DOI: 10.1142/S0218126616500067 ISSN: 1793-6454	World Scientific/SCI	0.595	1
6	Sreenivasulu, U., Naganjaneyulu P.V., Giriprasad, M.N.	Achieving QoS requirements using evolutionary computation scheduling schemes in 802.16 networks	Journal of Theoretical and Applied Information Technology	Vol no 83/ Issue no 3/Page no 345-352/January, 2016	ISSN: 1992-8645	JATIT/Scopus	--	--
7	Manjula T., Sreenivasulu U., Javeed Hussain S.	A dynamic raspberry Pi sense HAT multimodality alerting system by using AWS IoT	Indian Journal of Science and Technology	Vol no 9/ Issue no 39/Page no 1-8/October, 2016	DOI: 10.17485/ijst/2016/v9i39/9579/ ISSN (Print): 0974-6846	IJST/E-SCI	--	--
8	Prasad E.L., Reddy A.R., Prasad M.N.G.	EFASBRAN: Error Free Adaptive Shared Buffer Router Architecture for Network on Chip	Procedia Computer Science	Vol:89/ Issue:7/ Pg. no:261-270	DOI:/10.1016/j.procs.2016.06.056 et /ISSN:1877-0509	ELSEVIER / Scopus	--	2
9	Ravindraiah R., Chandra Mohan Reddy S., Rajendra Prasad P.	Detection of exudates in Diabetic Retinopathy images using laplacian kernel induced spatial FCM clustering algorithm	Indian Journal of Science and Technology,	Vol no:9/ Issue no:15/ Pg. no:1-6/April, 2016	DOI: 10.17485/ijst/2016/v9i15/88171/ ISSN: 0974-6846	IJST/E-SCI	--	2
10	Hussain S.A., Ramaiah C., Prabhu M. Javeed Hussain S.	Robot Manipulator with a tactile sensor for object Recognition in Industrial welding process	International Journal of Control Theory and Applications	Vol:9 Issue:11 Pg. no:8373-8381/2016	ISSN: 0974-5572	International Science Press/ Scopus	--	--
11	Darwin Jose Raju A., Solai Manohar S., Senthil Kumaran M	A simple analytical method for calculating the optimal value of inductance of sine and cosine shaped spiral inductors and its analysis using ANOVA method	RevistaTecnica de la Facultad de Ingenieria Universidad del Zulia	Vol:39 Issue:7 Pg. no:134-143/November, 2016	DOI: 10.21311/001.39.7.17/ ISSN: 0254-0770	Universidad del Zulia/ Scopus	--	--
12	Bappaditya Roy, A.Bhattacharya, S.K.Chowdhury and A.K. Bhattacharjee-	Wideband Snowflake slot antenna using Koch iteration technique for wireless and C-band applications	International Journal of Electronics and Communications (AEÜ)	Vol 70, Dec.2016, pp.1467-1472	DOI:10.1016/j.aeue.2016.08.010	SCI	2.11	2

**Madanapalle Institute of Technology and Science
(UGC Autonomous)**

13	Bappaditya Roy, U.Chakraborty, S.K.Chowdhury and A.K. Bhattacharjee	Design of U-Shaped Antenna Using Different Substrate With Enhanced Bandwidth for WLAN/WiMAX Application	Microwave and Optical Technology Letters	Vol.58, pp.959-963, oct.2016	DOI: 10.1002/mo p.29702	SCI	.585	1
14	Ankan.Bhattacharya , Bappaditya Roy, S.K.Chowdhury and A.K. Bhattacharjee	Design and Analysis of a Koch Snowflake Fractal Monopole Antenna for Wideband Communication	Applied Computational Electromagnetics SOC Journal	Vol. 32, pp.548- 554,June 2017.	ISSN:1054-4887	SCI	1	1
15	Bappaditya Roy, A. Bhattacharya, S. Mondal, U. Chakraborty, S. K. Chowdhury, A. K. Bhattacharjee	Size miniaturization of microstrip antenna embedded with open-ended ground slots.	Journal of Computational Electronics	Vol. 16,No.3, Feb.2017, pp.907– 912,	DOI 10.1007/s10825- 017-0995-6	SCI	1.43	1
16	A.Bhattacharya , B.Roy, K.Chowdhury, A.K.Bhattacharjee.	Compact slotted UWB monopole antenna with tuneable band-notch characteristics	MicrowOptTechn ol Lett.	Vol.59, Feb.2017. pp.2358– 2365	DOI: 10.1002/mo p.30730	SCI	.585	2
17	Ankan.Bhattacharya , Bappaditya Roy, S.K.Chowdhury and A.K. Bhattacharjee	A Compact Fractal Monopole Antenna with Defected Ground Structure for Wideband Communication	Applied Computational Electromagnetics SOC Journal	Vol. 1, No. 8. March2016, pp 228-231	ISSN:1054-4887	sci	1	1
18	P. Upadhyay, R. Kar, D. Mandal, S. P. Ghoshal	A new design method based on Firefly Algorithm for IIR System Identification Problem	Journal of King Saud University – Engineering Sciences	Vol. 28, No. 2, pp. 174- 198, July, 2016	https://doi.org/10.1016/j.jksues.2014.03.001 ISSN: 1018-3639	Elsevier/ Scopus	--	20
19	P. Upadhyay, R. Kar, D. Mandal, S. P. Ghoshal	A Novel Low Power 8T SRAM Cell Design Using Lower and Upper Self controllable Voltage Level Techniques in 45 nm Technology	International Journal of Computer Aided	Vol. 8, No. 4, pp. 388- 412,	https://doi.org/10.1504/IJCAET.2016.079390 ISSN-1757-2657	Inderscienc e/ Scopus	--	--

**Madanapalle Institute of Technology and Science
(UGC Autonomous)**

			Engineering and Technology	September, 2016				
20	Lucky Agarwal, Brijesh Kumar Singh, Shweta Tripathi and P.Chakrabarti	Fabrication and characterization of Pd/Cu doped ZnO/Si and Ni/Cu doped ZnO/Si Schottky Diodes	Thin solid films	34, 259-266, Aug-2016	https://doi.org/10.1016/j.tsf.2016.06.027 / 0040-6090	Elsevier	1.82	12
21	P Kumar and B. Bhowmick	2D analytical model for surface Potential based electric field and impact of work function in DMG SB MOSFET	Superlattices and Microstructures	109/1/805-815	DOI: 10.1016/j.spmi.2017.06.001	Elsevier	2.118	--
22	P Kumar and B. Bhowmick	2-D analytical modeling for Electrostatic potential and threshold voltage of a dual workfunction gate Schottky barrier MOSFET	Journal of Computational Electronics	16/3/658-665	10.1007/s10825-017-1011-x	Springer	1.104	--
23	Vijayvargiya V. and Vishvakarma S.K.	Analog/RF Performance attributes of an underlap tunnel field effect transistor for low power applications	IET Electronics Letters	vol. 52, no. 7, pp. 559-560	10.1109/TNANO.2014.2336812 and ISSN: 1536125X	IEEE/SCI	1.23	7
24	Reniwal B., Vijayvargiya V., Vishvakarma S.K. and Dwivedi D.	Ultra-Fast current mode sense amplifier for small ICELL SRAM in FinFET with improved offset tolerance	Circuits, Systems and Signal Processing (CSSP)	vol.35, no.9, pp.3066-3085, Sep2016	DOI:10.1007/s00034-015-0199-x and ISSN: 0278-081X	Springer/SCI	1.998	2
25	Vijayvargiya V. and Vishvakarma S.K.	Impact of Device Engineering on Analog/RF Performances of Tunnel Field Effect Transistor	Journal of Semiconductor, Science and Technology, IOP journal	vol.32, no.1, pp.1-10, May2017	DOI: 10.1088/1361-6641/aa66bd	IOP\SCI	2.28	3
26	Sachan, Vikash, Ravi Shankar, and Ritesh Kumar Mishra	Selective Decode-Forward Cooperative Communication over Nakagami-m Fading Channel with Channel Estimation Error	Journal of Telecommunication, Electronic and Computer Engineering	9, no. 2-6 (2017): 85-90	DOI: 10.1088/1361-6641/aa66bd	UEM PRESS/SCOPUS	--	01

**Madanapalle Institute of Technology and Science
(UGC Autonomous)**

27	Ravi Shankar, Vikash Sachan and Ritesh Kumar Mishra	MIMO STBC Multi Node Selective C(0) Protocol Based Cooperative Wireless Communication over Nakagami-m Fading Channel Considering the Effect of Channel Estimation Error	Journal of Engineering and Applied Sciences	vol. 12, pp. 1859-1863	doi:10.3923/jeasci.2017.1859.1863	JEAS/SCOPUS	--	01
28	R Kumar, A Kumar, G Singh, HN Lee	Efficient compression technique based on temporal modelling of ECG signal using principle component analysis	IET Science, Measurement & Technology	11 (3), 346-353, 1/2017	10.1049/iet-smt.2016.0360 / 1751-8830	IET/SCI	1.34	1
29	Chandramauleswar Roy and Aminul Islam	TG Based 2T2M RRAM Using Memristor as Memory Element	Indian Journal of Science and Technology	vol. 9, no. 33, pp. 1-5, Sep. 2016	0974-6846. 0974-5645	Scopus	0.86	4
30	Chandramauleswar Roy and Aminul Islam	Design of 10T SRAM Cell using Column-Line Assist and DTMOS Techniques	Indian Journal of Science and Technology	vol. 9, no. 40, pp. 1-6, Oct. 2016.	0974-6846. 0974-5645	Scopus	0.86	1
31	Chandramauleswar Roy, Arundhati Bhattacharya, Aminul Islam,	Modeling of MTJ and its validation using nanoscale MRAM bitcell	Journal of Engineering Science and Technology	vol. 12, no. 6, pp. 1525 – 1540, Jun. 2017.	1823-4690	ESCI and Scopus	0.37	1
32	Dheeren Ku Mahapatra and LakshiProsad Roy	Empirical Model for SAR Ground Clutter Data	IET Signal Processing	vol. 11, no. 7, pp. 805–813, April 2017	10.1049/iet-spr.2016.0351	IET/ SCI	1.250	--
33	Dheeren Ku Mahapatra, Soumya Shubhra Ray and LakshiProsad Roy	Maximum A Posteriori Based Texture Estimation by Despeckling of SAR Clutter Amplitude Data	IET Image Processing	vol. 11, no. 8, pp. 656–666, May 2017	10.1049/iet-ipr.2017.0344	IET/ SCI	1.401	1
34	Satrughan Kumar, Jigyendra Sen Yadav	Background Subtraction Method for Object Detection and Tracking	Advances in Intelligent Systems and Computing	479,1057-1063, Sep-2016	https://doi.org/10.1007/978-981-10-1708-7_125	Springer/Scopus	--	3

**Madanapalle Institute of Technology and Science
(UGC Autonomous)**

					ISBN: 978-981-10-1708-7			
35	S. Hoque and W. Arif	Performance analysis of cognitive radio networks with generalized call holding time distribution of secondary user	Telecommunication Systems	vol. 66, no.1, pp. 95-108, 2017	https://doi.org/10.1007/s1123	SCIE	1.527	07
36	Pratik Mondal and S.K.Parui	Multi-Mode Resonator based Broadband Power Divider, Tunable upto UWB	Microwave and Optical Technology Letter, Wiley	Vol. 58, No. 10, pp. 2419-2422, 2016	https://doi.org/10.1002/mop.30063	Wiley / SCI	0.948	2
37	Singh, V.K., Sharma, G. and Kumar, M	Compressed sensing based acoustic event detection in protected area networks with wireless multimedia sensors	Multimedia Tools and Applications Springer	September 2017, Volume 76, Issue 18, pp 18531–18555	10.1007/s11042-016-4241-1 ISSN: 1573-7721	SCI	1.54	8
38	Sitharthan, R., Devabalaji, K.R. and Jeas, A	An Levenberg–Marquardt trained feed-forward back-propagation based intelligent pitch angle controller for wind generation system	Renewable Energy Focus	22, pp.24-32.		Elsevier/Scopus	--	--
39	S. M. Chowdhury, A. Hossain and Sunandita Debnath	Impact of Error Control Code on Characteristic Distance in Wireless Sensor Network	Wireless Personal Communications	Vol. No. 92/ Issue No.4/ Page. No. 1459–1471/ February/ 2017	10.1007/s11277-016-3615-z/ 1572-834X	Springer/SCI	1.200	1
40	Sunandita Debnath, A. K. Singh and A. Hossain	A Comprehensive Survey of Coverage Problem and Efficient Sensor Deployment Strategies in Wireless Sensor Networks	Indian Journal of science and Technology	Vol. No. 9/ Issue No.45/ December/ 2016	10.17485/ijst/2016/v9i45/99032/ 0974-5645	Thomson Reuters Indexed (Web of Science)	--	8
41	Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran	Effective Integration of Reliable Routing Mechanism and Energy Efficient Node Placement Technique for Low Power IoT Networks	International Journal of Grid and High-Performance Computing	Volume 9, Issue 4, Article 2, 250117-012241.		ESCI, Scopus	--	3

**Madanapalle Institute of Technology and Science
(UGC Autonomous)**

42	L Kumar, VS Pandey, H Parthasarathy, V Shrimali, G Varshney	Effect of non-linear capacitance on a non-uniform transmission line	European Physical Journal Plus	Vol. No. 131 Issue No. 5 Page No. 159 Month/Year May/2016	10.1140/epjp/i2016-16159-6 ISSN: 2190-5444	Springer/S CI	2.240	3
43	Gaurav Varshney, VS Pandey, RS Yaduvanshi, Lalit Kumar	Wide band circularly polarized dielectric resonator antenna with stair-shaped slot excitation	IEEE Transactions on Antennas and Propagation	Vol. No. 65 Issue No. 3 Page No. 1380-1383 Month/Year March/2017	<u>10.1109/TAP.2016.2635619</u> ISSN: 1558-2221	IEEE/SCI	4.13	23
44	L Kumar, VS Pandey, H Parthasarathy, V Shrimali, G Varshney	Quantum-mechanical estimation of rectangular waveguide parameters with atomic entropy computation	European Physical Journal Plus	Vol. No. 132 Issue No. 285 Page No. 159 Month/Year May/2017	10.1140/epjp/i2017-11558-9 ISSN: 2190-5444	Springer/S CI	2.240	2
45	Gaurav Varshney, VS Pandey, RS Yaduvanshi	<u>Dual-band fan-blade-shaped circularly polarised dielectric resonator antenna</u>	IET Microwave Antennas and Propagation	Vol. No. 11 Issue No. 13 Page No. 1868-1871 Month/Year July/2017	<u>10.1049/iet-map.2017.0244</u> ISSN 1751-8725	IET/SCI	1.739	8
46	Sankalita Biswas, Biswajit Ghosh, Aniruddha Chandra, Sanjay Dhar Roy	Frame Error Rate for Single Hop and Dual Hop Transmissions in 802.15.4 LoWPANs	International Journal of Electronics	Vol. No-104 Issue No.-8 May, 2017	DOI: 10.1080/00207217.2017.1312706	Publisher-Taylor and Francis Indexing-SCI	0.939	

Madanapalle Institute of Technology and Science
(UGC Autonomous)

Madanapalle Institute of Technology and Science
(UGC Autonomous)
Department of Electronics & Communication Engineering

Faculty Book Chapter, Academic Year 2016-2017

S. No.	Name(s) of Author(s)	Title of the Paper	Name of the Journal/Conference/ Book	Vol. No/ Issue No. /Page. No/ Month/ Year	DOI/ISSN	Publisher /Indexing	Impact Factor	Citation
1	Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran	Energy Efficient Network Architecture for IoT Applications	Springer, Book Chapter	pp. 119-144.	ISBN 978-3-319-50758-3	Scopus	--	8
2	Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran	Energy Efficient Network Design for IoT Healthcare Applications	Springer, Book Chapter	PP. 35-61	ISBN 978-3-319-49736-5,	Scopus	--	1

Faculty Incharge

HoD/ECE