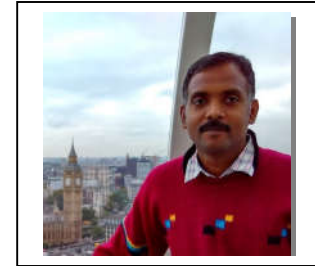


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Curriculum Vitae



Brief Profile: **Dr. S. S. Karthikeyan** received the B.E degree in Electronics and Communication Engineering from the Bharathidasan University, M.E. Degree in Applied Electronics from Sathyabamaba Institute of Science and Technology, and Ph.D. degree from the Indian Institute of Technology Guwahati (IIT G). From Dec. 2010 to Aug. 2011, he worked as an Assistant professor (Senior) at VIT Vellore. Following his PhD Viva, he joined the Department of Electronics Engineering, Indian Institute of Information Technology, Design and Manufacturing (IIIT DM) Kancheepuram in Aug. 2011. Currently he is a faculty member of ECE department, NIT Tiruchirappalli. His research areas include analysis and design of passive microwave devices with emphasis on dual band and wideband operation, printed antennas/arrays, frequency selective surfaces and SIW based devices/components. He has authored or co-authored over 70 international journal and conference papers in the areas of his research interests.

1. Name: : Dr. Karthikeyan S S
2. Designation : Assistant Professor
3. Office Address: #314, Department of ECE
4. Telephone (Direct) (Optional):
Telephone : Extn (Optional):
Mobile (Optional):
5. Email (Primary): sskarthikeyan@nitt.edu Email (Secondary) :
6. Field(s) of Specialization: RF/Microwave
Engineering, Antennas, Additive manufacturing of
RF components/Circuits

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NITT	18.5.2018	Till Date
Assistant Professor	IIITDM K	17.8.2011	17.5.2018
Assistant Professor (Senior)	VIT	15.12.2010	16.8.2011
Lecturer	AVCCE	2002	2006

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Design Engineer	Vi Microsystems	2001	2002
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8. Academic Qualifications:

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	IIT Guwahati	2011	-	Electronics and Electrical Engineering
M.E	SIST, Chennai	2005	First Class	Applied Electronics
B.E	Bharathidasan University	2001	First Class	Electronics and communication Engineering
D.E.E.E	Muthiyah Polytechnic	1998	First Class with honours	Electrical and Electronics Engineering

9. Academic/Administrative Responsibilities within the University

Position	Institution	From	To
Hostel Warden	NIT T	2018	Till Date
Hostel warden	IIITDM K	2017	2018
UG Project Coordinator	IIITDM K	2017	2018
Cultural Coordinator	IIITDM K	2014	2017
Ph.D Selection Committee Chairman	IIITDM K	2016	2016
Ph.D Admission Scrutiny Committee	IIITDM K	2012	2014
M.Des. Selection Committee Chairman	IIITDM K	2016	2016
Refreshment Committee Chairman	IIITDM K	2015	2017
Class committee Chairman	IIITDM K	2017	2017

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Ph.D Thesis Examiner	Various Universities	2011	
Doctoral Committee member	Various Universities	2011	
Chair	IEEE AP-S, Madras Chapter	2017	

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2009	IEEE Student Author Award	IEEE AEMC

12. Fellowships

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Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
-	-	-	-	-

13. Details of Academic Work

(i) Curriculum Development

RF and Microwave Circuit Design
 Antenna Theory and Design
 Electromagnetic Interference and Compatibility
 Electromagnetic Interference and Compatibility Practice Course
 RF and Microwave Circuit Design Practice Course

(ii) Courses taught at Postgraduate and Undergraduate levels

Electronic Manufacturing and Packaging
 Digital Signal Processing and Architecture
 Analog and Digital Communication
 Electronic Circuit Design
 Electronic Circuit Design Practice course
 Microprocessor and Microcontrollers
 Data Networks
 RF and Microwave Circuit Design
 Antenna Theory and Design
 Electromagnetic Interference and Compatibility
 Electromagnetic Interference and Compatibility Practice Course
 RF and Microwave Circuit Design Practice Course

(iii) Projects guided at Postgraduate level

Year	Title	Name of the Student
2013	Size miniaturization and performance enhancement of microwave devices	K. V. Phani Kumar#
2015	Design and development of microwave filters	Purushothaman.B
2015	Remote Monitoring of elevators	K.T.Venkatesan
2015	Design of multi band branch line coupler	Iqram Haider
2015	Design of a low noise amplifier	Pradyumna Kumar Bishoyi
2015	Compact Wideband Branch Line Coupler for Arbitrary Coupling Level with Harmonic Suppression	Rusan Kumar Barik#

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2015	Design and development of the microwave sensors using split ring resonator	Amitabh
2016	Design of dual band impedance transformer and its application	Rehana Siddiqui#
2016	Design and implementation of SIW passive devices	Shivam Awasthi
2016	Design of wideband and dual band microwave filters	Solunke Yogesh Shriram
2016	Design and development of SIW antennas for X, Ku and K band application	Soumyakanta Pradhan
2017	Frequency selective surfaces and its applications	Adeline Melita
2017	Design of dual band cross over with Flexible Frequency ratio	Idury Satya Krishna#
2018	Design and Implementation of Tri-Band Microwave Passive Devices	T S Laxman Deep
2018	Design of Multiband and Beam steering Antenna for 5G Applications	Agathiyan Rejendran
2018	Design of RF sensor for detection of adulteration in edible oils	Jairein S
2018	Design and implementation of Reconfigurable antenna	Sirimella Praveena

Received the Best Project Award

14. Details of Major R&D/Consultancy Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Design and development of a dual band RF Energy Harvester for Wireless Sensor Networks using Aerosol Jetting Technology	DST-IMPRINT	2019	2022	Ongoing
Development of 3D printed Wearable Button Antenna for Soldier Performance Monitoring Applications	DST-IMPRINT	2019	2022	ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role	Year
K. V. Phani Kumar	Design, analysis and implementation of RF/Microwave planar passive Devices for wireless applications	Supervisor	2017

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Rusan Kumar Barik	Design and Implementation of wideband and Multi-Band RF/Microwave Components	Supervisor	2018
Chandu D S	Investigations and implementations of novel methods in the design of circularly polarized printed antennas	Supervisor	2019

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
6 th to 10 th , June 2011	Mission 10X	National	Participant	Wipro	VIT
4 th to 6 th , Jan. 2015	FDP	National	Participant	IITM	IITM
20 to 22 June 2018	FDP	Local	Participant	NITT	NITT

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convener / Co-Convener)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
One Day seminar on Advanced Antennas for Satellite Applications	National	23 rd June, 2017	Coordinator	IITDM K
Advanced Topics in Signal Processing, RF and Wireless Communication,	National	13 th to 15 th , June, 2016	Coordinator	IITDM K
Next Generation RF and Wireless Technologies for Rural India,	National	4 th & 5 th June, 2015.	Coordinator	IITDM K
Research Challenges in RF and Wireless Communication	National	21 st & 22 nd June, 2013.	Coordinator	IITDM K

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18. Invited Talks delivered (Recent Talks)

Topic	Date	Inviting Organization
Metamaterials and its Application	6.04.2018	SSN CE
Electromagnetic Theory: Application perspective	March 2018	St. Joseph College
Wearable Antenna	9.11.2017	KCG College of technology

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member	IEEE, IEEE MTT-S, IEEE AP-S	Since 2011
Life Member	ISTE	Since 2005

20. Academic Foreign Visits

Country	Duration of Visit	Programme
UK	3-7 Oct. 2016	European Microwave Week
France	7-10 Sept. 2015	European Microwave Week

21. Publications

(A) Refereed Research Journals:

1. D S Chandu and **S S Karthikeyan**, “A Miniaturized Broadband High Impedance Surface With Flexible Circular Polarization Sense”, *IEEE Transactions on Antennas and Propagation*, vol. 67, no. 4, pp. 2819 – 2824, 2019.
2. Chandu D S and **S S Karthikeyan**, “A quad-band linear to circular reflective polarisation transformer and its application in dual-sense circularly polarised antenna design”, *IET Microwaves, Antennas & Propagation*, vol.13, pp. 819 – 826, 2019.
3. S K Tharani Duraisamy, R K Barik, **S S Karthikeyan**, Selvajyothi Kamatchi, “A novel SIW based dual-band power divider using double-circular complementary split ring resonators”, *Microwave and Optical Technology Letters*, vol. 61, pp. 1529-1533, 2019.

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4. **S S Karthikeyan**, "Compact Dual-Band Substrate Integrated Waveguide Crossover with High Isolation", *Progress in Electromagnetics Research*, vol. 83, pp. 23-28, 2019
5. R K Barik, IS Krishna, **S S Karthikeyan**, "Design of a tri-band 180-degree directional coupler with spurious suppression based on extended pi-shaped microstrip line" *Microwave and Optical Technology Letters*, Vol. 60, No. 7 pp. 1612-1619, 2018
6. KVP Kumar, **S S Karthikeyan** "Compact, high selectivity and wideband bandpass filter with multiple transmission zeros", *AEU-International Journal of Electronics and Communications*, Vol. 94, pp. 79-83, 2018.
7. S Y Shriram, KVP Kumar, **S S Karthikeyan**, "Compact dual-wideband bandpass filter for wireless applications", *AEU-International Journal of Electronics and Communications*, Vol. 95, pp. 69-72, 2018.
8. R Adeline Mellita, D S Chandu, **S S Karthikeyan**, "A novel open loop design technique for frequency selective surface miniaturization", *Microwave and Optical Technology Letters*, Vol. 60, No.10, pp. 2599-2604, 2018.
9. R K Barik, T S Laxman Deep, **S S Karthikeyan**, "An equal split triple-band Wilkinson power divider employing extended cross-shaped microstrip line, *Microwave and Optical Technology Letters* , Vol. 60, no. 10, pp. 2488-2492, 2018.
10. Chandu DS and **S S Karthikeyan**, "Broadband Circularly Polarized Printed Monopole Antenna with Protruded L-Shaped and Inverted L-Shaped Strips," *Microwave and Optical Technology Letters*, Vol. 60, no. 1, pp. 242–248, 2018.
11. Rusan Kumar Barik, Rathod Rajender and **S S Karthikeyan**, "A Miniaturized Wideband Three-Section Branch-Line Hybrid with Harmonic Suppression Using Coupled-Line and Open-ended Stubs," *IEEE Microwave and Wireless Components Letters*, Vol. 27, no. 12, pp. 1059-1061, 2017.
12. Rusan Kumar Barik and **S S Karthikeyan**, "Design of dual/tri-frequency impedance transformer with ultra-high transforming ratio," *International Journal of Microwave and Wireless Technologies*, Vol. 9, no. 10, pp. 1951-1960, 2017.
13. Rusan Kumar Barik and **S S Karthikeyan**, "Dual-Frequency Impedance Transformer Using Coupled-Line for Ultra-High Transforming Ratio," *Radio Engineering*, Vol. 26, no. 4, pp. 1067-1074.
14. Rusan Kumar Barik and **S S Karthikeyan**, "A Novel Quad-Band Impedance Transformer with Ultra-High Transforming Ratio", *International Journal of Electronics and Communications*, Vol. 78, pp. 157-161, Aug. 2017.

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15. Rusan Kumar Barik and **S S Karthikeyan**, “A Novel Design of Ultra-High Impedance Transforming Ratio Quad-Band Matching Network”, *Microwave and Optical Technology Letters*, Vol. 59, No. 8, pp. 2021-2026, Aug. 2017.
16. Idury Satya Krishna, Rusan Kumar Barik and **S. S. Karthikeyan**, “A Dual-Band Crossover Using Cross Shaped Microstrip Line for Small and Large Band Ratios”, *International Journal of Microwave and Wireless Technologies*, pp. 1-7, Apr. 2017.
17. Rusan Kumar Barik, K.V. Phanikumar and **S. S. Karthikeyan**, “Design of a Dual-Band Microstrip Branch-Line Balun Using T-Shaped Coupled Lines”, *Microwave and Optical Technology Letters*, Vol. 59, no. 5, pp. 1197-1202, 2017.
18. K.V. Phanikumar and **S. S. Karthikeyan**, “Highly compact wideband double-section rat-race hybrid with harmonic suppression using series and shunt stepped impedance transmission lines”, *International Journal of Microwave and Wireless Technologies*, Vol. 9, no. 4, pp. 797-803, 2017. DOI: 10.1017/S1759078716000982, IF: 0.976
19. Idury Satya Krishna, Rusan Kumar Barik and **S. S. Karthikeyan** A Miniaturized Harmonic Suppressed 3 dB Branch Line Coupler Using H-shaped Microstrip Line”, *Microwave and Optical Technology Letters*. Vol. 59, no. 4, pp. 913-918, 2017. DOI: 10.1002/mop.30428, IF: 0.731
20. Chandu D S and **S S Karthikeyan**, “A Novel Broadband Dual Circularly Polarized Microstrip-Fed Monopole Antenna”, *IEEE Transactions on Antennas and Propagation*, Vol. 65, no. 3, pp. 1410 - 1415, 2017.
21. K.V. Phanikumar and **S. S. Karthikeyan**, “Miniaturized quadrature hybrid coupler using modified T-shaped transmission line for wide-range harmonic suppression”, *IET Microwaves, Antennas & Propagation* Vol. 10, no. 14, pp. 1522-1527, 2016.
22. Rusan Kumar Barik, K.V. Phanikumar and **S. S. Karthikeyan**, “Design of a Quad-Band Branch Line Balun Using Extended Pi-Shaped Coupled Lines”, *IEEE Microwave and Wireless Components Letters*, Vol. 26, no. 10, pp. 771-773, 2016.
23. Rusan Kumar Barik, K.V. Phanikumar and **S. S. Karthikeyan**, “A compact wideband harmonic suppressed 10 dB branch line coupler using cascaded symmetric PI sections”, *Microwave and Optical Technology Letters*, Vol. 58, no. 7, pp. 1610-1613, 2016.
24. K.V. Phanikumar, Rusan Kumar Barik and **S. S. Karthikeyan**, “A novel two section branch line coupler employing different transmission line techniques”, *International Journal of Electronics and Communication*, Vol. 70, no. 5, pp. 738-734, 2016.

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25. K. V. Phanikumar and **S. S. Karthikeyan**, "Wideband three section branch line coupler using triple open complementary split ring resonator and open stubs", *International Journal of Electronics and Communication*, Vol. 69, no. 10, pp. 1412-1416, 2015.
26. K. V. Phanikumar and **S. S. Karthikeyan**, "A compact 1:4 lossless t-junction power divider using open complementary split ring resonator", *Radio Engineering*, Vol. 24, no. 3, pp. 717-721, 2015.
27. **S. S. Karthikeyan** and Rakhesh Singh Kshetrimayum, "Compact and Wide Stopband Lowpass Filter Using Open Complementary Split Ring Resonator and Defected Ground Structure", *Radio Engineering*, Vol. 24, no. 3, pp. 708-711, 2015.
28. **S. S. Karthikeyan** and R. S. Kshetrimayum "Compact, harmonic suppressed power divider using open complementary split-ring resonator", *Microwave and Optical Technology Letters (MOTL)*, Vol. 53, pp. 2897-2899, 2011.
29. **S. S. Karthikeyan** and R. S. Kshetrimayum "Size miniaturized rat-race coupler using open complementary split ring resonator", *IEICE Transaction on Electronics*, Vol. E94-C, pp. 1601-1604, 2011.
30. **S. S. Karthikeyan** and R. S. Kshetrimayum, "Compact, Deep and Wide Rejection Bandwidth Lowpass Filter using Open Complementary Split Ring Resonator, *Microwave and Optical Technology Letters (MOTL)*, Vol. 53, pp. 845-848, 2011.
31. **S. S. Karthikeyan** and R. S. Kshetrimayum "Composite right/left handed transmission line based on open slot split ring resonator", *Microwave and Optical Technology Letters (MOTL)*, Vol. 52, pp. 1729-1731, 2010.
32. **S. S. Karthikeyan** and R. S. Kshetrimayum, Notched UWB bandpass filter using Complementary Single Split Ring Resonator", *IEICE Electronics Express (ELEX)*, Vol. 7, pp. 1290-1295, 2010.
33. **S. S. Karthikeyan** and R. S. Kshetrimayum, "Compact Wideband Bandpass Filter using Open Slot Split Ring Resonator and CMRC," *Progress in Electromagnetics Research Letters (PIERL)*, Vol. 10, pp. 39-48, 2009.
34. **S. S. Karthikeyan** and R. S. Kshetrimayum, "Harmonic suppression of parallel coupled microstrip line bandpass filter using CSRR," *Progress in Electromagnetics Research Letters (PIERL)*, Vol. 7, 193-201, 2009.
35. R. S. Kshetrimayum, **S. S. Karthikeyan** and D. Dey, "Bandgap determination of triangular lattice EBGs in the ground plane", *International Journal of Electronics and Communication*, Vol. 63, no. 8, pp. 699-702, 2009.

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36. R. S. Kshetrimayum, S. Kallapudi and **S. S. Karthikeyan**, "Stop Band Characteristics for Periodic Patterns of CSRRs in the Ground Plane and its Applications in Harmonic Suppression of Band Pass Filters", *International Journal of Microwave and Optical Technology*, Vol. 3, No. 2, pp. 88-95, 2008.
37. R. S. Kshetrimayum, S. Kallapudi and **S. S. Karthikeyan**, "Stopband Characteristics for Periodic Patterns of CSRRs in the Ground Plane", *IETE Technical Review*, Vol. 24, no 6, pp 449-460, 2007.

(B) Conferences/Workshops/Symposia Proceedings

1. An Ultrathin Quad-band Microwave Absorber with Small Frequency Ratio, European Microwave Conference, 29th Sep-4th Oct. Paris, 2019. **(Received the Travel Grant from EuMA)**
2. R Adeline Mellita, D S Chandu, **S S Karthikeyan**, "Novel Approach for Enhanced Reduction of SAR in a Mobile Phone Antenna Using High Impedance FSS", International conference on Signal Processing and Communication (SPCOM), 16-19 July, 2018, IISc Bangalore.
3. Chandu D S, Tharani D, **S S Karthikeyan**, "A Novel Circular Quarter-Mode SIW Cavity-Backed Diversity Antenna with Dual-Circular Polarization", International conference on Signal Processing and Communication (SPCOM), 16-19 July, 2018, IISc Bangalore. **(Received the Best Graduation Day Talk Award)**
4. Gunjan Kumari, Rusan Kumar Barik, Purna Saxena, **Karthikeyan S S**, "Compact Substrate Integrated Waveguide Power Divider with Slot-Loaded Ground Plane for Dual-Band Applications", International Microwave & RF Conference (IMaRC-2018), 28-30, Nov., Kolkatta, 2018.
5. Chandu DS, Rusan Kumar Barik, and **S S Karthikeyan**, "Triple-Band Circularly Polarized Antenna on a Two-Layered High Impedance Surface with Two In-Phase Reflection Bands," In Proceedings of 47th European Microwave Conference (EuMC 2017), Nuremberg, Germany, Oct. 2017. **(Received the Travel Grant from CSIR)**
5. Rusan Kumar Barik, Chandu DS, and **S S Karthikeyan**, "Broadband Coupled Line Matching Network for Two Dissimilar Port Reference Impedances," In Proceedings of 47th European Microwave Conference (EuMC 2017), Nuremberg, Germany, Oct. 2017. **(Received the Travel Grant from DST)**

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6. Idury Satya Krishna, Rusan Kumar Barik, and **S. S. Karthikeyan**, "Analysis and Design of a Planar Crossover for Dual-Frequency Applications", IEEE INDICON, IIT Roorkee, Dec. 2017
7. Adeline Melita, Chandu DS and **S. S. Karthikeyan**, "Gain Enhancement of a Microstrip Patch Antenna Using a Novel Frequency Selective Surface," In Proceedings of NCC-2017, IIT Madras.
8. Idury Satya Krishna, Rusan Kumar Barik, and **S. S. Karthikeyan**, "A Miniaturized Wideband Bandpass Filter Based on $3\lambda/4$ Resonator Loaded with Stepped Impedance," In Proceedings of NCC-2017, IIT Madras.
9. K.V. Phani Kumar, Rusan Kumar Barik, Idury Satya Krishna and **S. S. Karthikeyan**, "Design of Compact 1800 Hybrid Coupler for Unequal Power Division Ratio Using a High Slow Wave Structure," In Proceedings of NCC-2017, IIT Madras.
10. S. K. Pradhan, R K Barik, P. K. Bishoyi, **S. S. Karthikeyan**, and Chandu D S, "A Novel Dual-Band Matching Network Using Modified T-Shaped Line and Its Application," In Proceedings of International Conference on Wireless Communications Signal Processing and Networking (WiSPNET 2017), SSN College of Engineering, Mar. 2017.
11. Chandu DS, S. Pradhan and **S. S. Karthikeyan**, "A wideband substrate integrated waveguide slotted array antenna with multimode and multidirectional characteristics", in Proc. Annual IEEE INDICON, IISc Bangalore, 2016.
12. Rusan Kumar Barik, R Siddiqui, K.V. Phani Kumar, **S. S. Karthikeyan**, "Design of a novel dual-band low noise amplifier incorporating dual-band impedance transformer", in Proc. International Conference on Signal Processing and Communication (SPCOM), IISc Bangalore, 2016.
13. Chandu DS, S. Pradhan and **S. S. Karthikeyan**, "SIW Based Modified Slotted Array Antenna with Circular Polarization for X, Ku and K Band Communications", in Proc. European Microwave Conference (EuMC), London, 2016.
14. Rusan Kumar Barik, K.V. Phanikumar and **S. S. Karthikeyan**, "Compact wideband 3dB branch line coupler with multiple symmetric PI section", in Proc. European Microwave Conference (EuMC), Paris, 2015.
15. Chandu D S, **S.S. Karthikeyan**, K.V.P. Kumar, "Reduction of mutual coupling in a two element patch antenna array using sub-wavelength resonators", in Proc. National Conference on Communication (NCC), IIT Bombay, 2015. **(Received the travel grant form NI)**

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16. Rusan Kumar Barik and **S.S. Karthikeyan**, “Design of a novel dual-band impedance transformer using coupled lines”, in Proc. IEEE Applied Electromagnetic Conference (AEMC), IIT Guwahati, 2015.
17. Purushothaman. B, K.V. Phani Kumar, and **S. S. Karthikeyan**, “Dual-Band Bandstop Filter Using Single Tri-section Stepped Impedance Open Stub”, in Proc. International Conference on Microwave and Photonics, ISM Dhanbad, 2015.
18. P K Bishoyi, and **S. S. Karthikeyan**, “Design of a two stage Ku band low noise amplifier for satellite applications”, in Proc. International Conference on Communications and Signal Processing (ICCSP),, 2015.
19. R. K. Barik, P. K. Bishoyi, **S. S. Karthikeyan**, “Design of a Novel Dual-band Impedance Transformer”, in Proc. IEEE International Conference on Electronics, Computing and Communication, IIIT Bangalore, 2015.
20. K. V. P. Kumar, **S. S. Karthikeyan**, “A compact and high performance band-stop filter using open complementary split ring resonator”, in Proc. National Conference on Communication, IIT Delhi, 2013.
21. K. V. Phanikumar and **S. S. Karthikeyan**, “A novel design of rat race coupler using defected microstrip structure and folding technique”, in Proc. IEEE Applied Electromagnetic Conference (AEMC), KIIT Bhubaneswar, 2013. **(Student paper contest finalist)**
22. M. Arulvani; **S. S. Karthikeyan**; N. Neelima, “Investigation of process variation on register files in 65nm technology”, in Proc. International Conference on Emerging Trends in VLSI, Embedded System, Nano Electronics and Telecommunication System, 2013.
23. **S. S. Karthikeyan** and M. Arulvani, “Double negative metamaterial design using open split ring resonator”, IEEE Students Technology Symposium (TechSym).
24. **S. S. Karthikeyan**, M. B. Manapati and R. S. Kshetrimayum, “Reduction of specific absorption rate in human tissues using split ring resonators”, in Proc. IEEE Applied Electromagnetics Conference (AEMC), Kolkatta, 2009. **{Student Author Award for S. S. Karthikeyan}**
25. **S. S. Karthikeyan** and R. S. Kshetrimayum, “Slot split ring resonators and its applications in performance enhancement of microwave filter”, in Proc. IEEE Applied Electromagnetics Conference (AEMC), Kolkatta, 2009. **{Student Author Award for S. S. Karthikeyan}**

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26. **S. S. Karthikeyan** and R. S. Kshetrimayum, “Performance Enhancement of Microstrip Bandpass Filter using CSSRR”, in Proc. International Conference on Advances in Computing, Control, and Telecommunication Technologies, Trivandrum. pp. 67-70. 2009
27. R. S. Kshetrimayum, **S. S. Karthikeyan** and V. K. Meduru, “ANN for fast and accurate design of spiral inductors”, in Proc. National Conference on Communications (NCC), pp. 54-58. 2009.
28. R. S. Kshetrimayum, V. K. Meduru and **S. S. Karthikeyan**, “ANN for fast and accurate determination of resonant frequency and quality factor for CSSRR in ground plane”, in Proc. Annual IEEE India Conference (INDICON), Bangalore, 2007.
29. R. S. Kshetrimayum, V. K. R. Cholletti and **S. S. Karthikeyan**, “Novel wide stopband filter using CSRR and open stubs”, in Proc. Annual IEEE India Conference (INDICON), India, 2007.
30. R. S. Kshetrimayum, D. Dey and **S. S. Karthikeyan**, “Performance comparison of micromachined patch antenna with EBGs and soft structure substrate”, in Proc. Annual IEEE India Conference (INDICON), Bangalore, 2007.
31. R. S. Kshetrimayum, R. Pillalamarri and **S. S. Karthikeyan**, “Single printed monopole antenna and notched antenna with triangular tapered feed lines for triband and penta band applications”, in Proc. Annual IEEE India Conference (INDICON), India, 2007.