


FACULTY PROFILE FOR WEBSITE

Name	:	Dr.SP.K.Babu	
Designation		Professor	
Department		Electronics and Communication Engineering	
Educational Qualification		B.E., M.Tech., Ph.D	
Subject of Interest	:	Detection Algorithms, Antenna, MIMO, RF MEMS, Radar	
Publications :	:	<p>International</p> <p>[1] SPK. Babu, M. F. M. Salleh and Farid Ghani, "Reduced complexity optimum detector for Block Data Transmission Systems", <i>IEICE Electron. Express</i>, Vol. 6, No. 23, pp.1649-1655, (2009). Impact Factor = 0.5</p> <p>[2] Mahmoud A M Albreem, M.F.M.Salleh, SPK.Babu," Reduced Complexity Optimum detector for block data transmission systems using Lattice Sphere decoding technique, <i>IEICE Electronics Express</i>, Vol.8, No.9, 644-649 Impact Factor = 0.5</p> <p>[3] S. Banu, A. Vishwapriya, R. Yogamathi, A.V. Meenakshi and S.P.K. Babu, "Analysis and Comparison of a Coplanar Waveguide and Micro Strip based Rectenna", <i>Bonfring International Journal of Research in Communication Engineering</i>, Vol. 2, No. 3, September 2012, pp 8-13</p> <p>[4] S. Banu, A. Vishwapriya, R. Yogamathi, A.V. Meenakshi and S.P.K. Babu, "Implementation and Performance Analysis of N-Way Wilkinson Power Divider", <i>Consumer Electronic Times</i>, Vol. 1 No. 1 2012 PP. 23-26</p> <p>[5] Jeevanantham S, Dr. SPK.Babu, "Improvising Routing and Security in MANET with Game Theory, <i>International Journal of Scientific Engineering and Applied Science (IJSEAS)</i> - Volume-1, Issue-2, May 2015, ISSN: 2395-3470</p> <p>[6] Gandhimathi.G., Hemalatha .A., Babu. S.P.K., "Evaluation of Levinson-Durbin Recursion Method for Source-Filter Model based Artificial Bandwidth Extension Systems" <i>International Journal of Scientific and Engineering Research (IJSER)</i> - (ISSN 2229-5518) Volume 6, Issue 3, March 2015 (Scopus) .</p> <p>[7] Gandhimathi.G., Hemalatha .A., Babu. S.P.K., "Evaluation of Different Auto regressive Modeling Methods for Source-Filter Model based Artificial Bandwidth Extension Systems" <i>International Journal of Applied Engineering Research (IJAER)</i></p>	

Online ISSN 1087--1090 Volume 6, Issue 3, March 2015 (Scopus)

- [8] B Monikandan, A Sivasubramanian, SPK Babu, "A review of MAC scheduling algorithms in LTE system", International Journal on Advanced Science, Engineering and Information Technology, Volume 7, Issue 3, Pages 1056-1068B, 2017
- [9] N.Thamil Selvi, P.Thiruvallar Selavan, SPK.Babu, R. Pandeewari, R.Samson Daniel, 'A Broad-Side Coupled SRR inspired CPW Fed Dual Band Antenna for WiMAX and WAVE Applications' Progress in Electromagnetic Research C. VOL 80, 221-231, 2018. (Scopus Indexed)
- [10] N.Thamil Selvi, P.Thiruvallar Selavan, SPK.Babu, ' EC-SRR Inspired CPW-Fed Triple Band Antenna with Staircase Shaped Ground Plane for WLAN and C-band Applications', International Journal of Microwave and Optical Technology, Vol.13, No.4, 299 – 309, July 2018. (Scopus Indexed)
- [11] Dr. SPK. Babu and Dr.S.Leonard Gibson Moses C.Rajanandhini "Evaluation Of The Performance Of UWB MBOFDM System Under Four Indoor Channel Models Of IEEE802.15.4a Under Noisy Channel Conditions" International Journal of Scientific & Technology Research Volume 8 Issue 12 Pages 656-660, , DECEMBER 2019
- [12] N. Thamil Selvi, P. Thiruvallar Selvan, S.P.K. Babu, R. Pandeewari, Multiband metamaterial-inspired antenna using split ring resonator, Computers & Electrical Engineering, Volume 84, 2020, 106613, ISSN 0045-7906, <https://doi.org/10.1016/j.compeleceng.2020.106613>.
- [13] Monikandan, B.S., Sivasubramanian, A., Babu, S.P.K. *et al.* Channel aware optimized proportional fair scheduler for LTE downlink. *Peer-to-Peer Netw. Appl.* **13**, 2135–2144 (2020). <https://doi.org/10.1007/s12083-019-00826-z>

International Conferences

- [1] **SPK.Babu**, Kumar Charlie Paul "Data mining and its applications" National conference in emerging engineering design and automation. MNM Jain Engineering college, 21-23 February 2001.Chennai 600 096, India
- [2] **SPK.Babu**, Kumar Charlie Paul " Efficient decomposition of speech waveforms" National Conference in signals, systems and security, PSG College of Engineering, 1-2 March 2002, Coimbatore, India.
- [3] Shahrom Mahmud, Mat Johar, Zakaria Mohd. Amin and **SPK.Babu** " Novel Modelling of High-Field Current – Voltage Characteristics of Semiconducting Varistors." IEEE International conference on

		<p>semiconductors electronics ICSE 2004 December 7-9 Kulau Lumpur, Malaysia</p> <p>[4] SPK.Babu, Dr. Farid Ghani “Genetic algorithms in search and analysis of low autocorrelation binary sequences” presented in IASTED International conference, April 2005, Krabi, Thailand.</p> <p>[5] SPK.Babu, Dr.Ghani “ Genetic algorithms based Frequency Hopping Spread Spectrum Systems” in ROVISP February 2005 Penang Malaysia</p> <p>[6] SPK.Babu, Dr.Farid Ghani “ Genetic Algorithm based Block transmission Systems” Proceeding of the “International conference on Information processing” pp615-624 held at Bangalore August 2006 India</p> <p>[7] SPK.Babu, Dr.F. Ghani, Mohd Fadzli Mohd Salleh "Micro Genetic Algorithm Application In Block Transmission Systems" Proceeding of the International conference of Electronic Design, held at Universiti Perlis Malaysia, Kulau Perlis, Malaysia, 2008</p> <p>[8] SPK.babu, M.F.M Salleh, “ Issues in Implementation of Genetic Algorithms Based Block Data Transmission systems”, proceeding of the International Conference on Control, Automation, Communication and Energy savings, held at Kongu Engineering College, Erode, India during June 4-6 2009 vol II pp 231-236</p> <p>[9] B, Satheesh Monikandan and A, Sivasubramanian and S.P.K., Babu and GKD, Prasanna Venkatesan and C, Arunachalaperumal, LTE Downlink 2x2MIMO in Channel-B Indoor Model with SFBC: Design and BER Analysis (September 5, 2019). Proceedings of International Conference on Recent Trends in Computing, Communication & Networking Technologies (ICRTCCNT) 2019.</p> <p>[10] Karthick R., Babu S.P.K. “ Review on Radio Frequency Micro Electro Mechanical Systems (RF-MEMS) Switch. In: Bindhu V., Chen J., Tavares J. (eds) International Conference on Communication, Computing and Electronics Systems. Lecture Notes in Electrical Engineering, vol 637. March, 2020 Springer, Singapore</p>
		National
Funded Projects	:	A low cost AI enabled patrol drone for forest fire detection. INR 0.7 Lakhs, PMIST Seed Money Fund.
Patents	:	A DOCKING STATION FOR AN AUTONOMOUS DRONE USED FOR FOREST FIRE DETECTION: Indian Patent, APPLICATION NUMBER, 202141020101
Awards and Achievements	:	Nil

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