Personal Information

Name	**Dr. Aruna Rao S.L**
Experience	14 Years
Designation	Professor & HoD
Email Id	it.hod@bvrithyderabad.edu.in
Area of Specialization	Computer Networks & Security

Educational Qualifications

Doctoral Degree	Ph.D.	Computer Science & Engineering
PG Degree	M.Tech.	Networking & Internet Engineering
UG Degree	B.E	Information Science & Engineering

Papers Published
International Journal Publications

1. P S Latha Kalyampudi, Dr P Venka Krishna, **Aruna Rao S. L.,** S Rama Devi, published a paper titled "Predictive Resource Demand Based Load Balancing Strategy for Fog Computing" *Design Engineering*, Pages: 7181-7191, Vol 2021: Issue 08 , ISSN: 0011-9342, http://www.thedesignengineering.com/index.php/DE/article/view/5727 **(SCOPUS INDEXED)**

2. **Aruna Rao S.L.,** Dr. M Shanmukhi published a paper titled "Exploring the Wireless Network Energy Conserving Mechanisms for Internet of Things" PENSEE Journal, Vol 51, Pages: 413-427, May 2021, ISSN: 0031-4773

3. Meenakshi Bhrugubanda, **Aruna Rao S.L.,** M Shanmukhi, AnnaluriSreenivasa Rao, published a paper titled "Sustainable and Intelligent IoT Based Precision Agriculture – Smart Farming", International Journal of Solid State Technology, Volume:63, Issue 6, Pages:17824-17833, http://solidstatetechnology.us/index.php/JSST/article/view/7839, ISSN: 0038-111X **(SCOPUS INDEXED)**

4. Dr M Shanmukhi, **Aruna Rao S.L.,** Ms Nazia Tabassum, Kuruva Harinath published a paper titled "NRPCAN : A Novel Routing Protocol for Cognitive Ad-Hoc Networks", in Journal of Critical Reviews (JCR. 2020), Vol.7, Issue.15,Pages1589-1597, ISSN- 2394-5125 http://www.jcreview.com/index.php?iid=2020-7-15.000&&jid=197&lng=

5. **Aruna Rao S.L.,** K.V.N. Sunitha published a paper titled "Trusted Secure Geographic Routing Protocol for Detecting Insider Attacks in MANET" in International Journal of Engineering Studies, ISSN 0975-6469 Volume 8, Number 2 (2016), pp. 187-197.

6. **Aruna Rao S.L**, K.V.N. Sunitha published a paper titled "Secure Geographical routing in MANET using the Adaptive Position Update" in International Journal of Advanced Computer Research Volume-4 Number-3 Issue-16 September-2014, Pages:785-794, (ISSN (print): 2249-7277 ISSN (online): 2277-7970)

International Conference Publications

1. Rama Devi S**,** Subetha T**, Aruna Rao S.L,** Mahesh Kumar M**,** published a paper titled "Enhanced Learning Outcomes by Interactive Video Content – H5P in Moodle LMS" in 6th International Conference on Inventive Systems and Control (ICISC 2022), Year: January 2022 Pages: 161-175, DOI:, Springer - Lecture Notes in Networks and Systems, ISSN: 2367-3370**, (SCOPUS INDEXED)**

2. **Aruna Rao S.L,** K.V.N.Sunitha published a paper titled "Position Verification Technique for Secure Geographical Routing in MANET in "Thirteenth International Conference on Wireless and Optical Communications Networks (WOCN) Year: 2016 Pages: 1 - 12, DOI: 10.1109/ WOCN. 2016.7759889, IEEE Conference Publications, **ISSN**: 2151-7703**, (SCOPUS INDEXED)**

National Conference Publications

1. **Aruna Rao S.L**, K.V.N. Sunitha "Guard against attack in mobile adhoc network routing", National Conference on Advanced Pattern Mining and Multimedia computing APMMC10 February 25-26, 2010.

2. **Aruna Rao S.L**, K.V.N. Sunitha "Increasing Performance level of DSR protocol in presence of malicious nodes", National Conference ATCON'09 November 2009.

Reviewer / Editor

Reviewer for International Conference on "Computational Intelligence and Network Security

Funded Projects

i. **Ongoing :**
Received a grant of 10,000USD azure credits from AI for Earth - Microsoft in October 2021 *Title :"Precision Agriculture"* (File No: AI4E-2262-R5G9-21100412) PI- Dr. K. V. N. Sunitha, Principal, BVRITH CO-PI-I – Dr. S L Aruna Rao, HoD-IT, BVRITH

ii. **Applied &Under Review –**NA

iii. **Completed:**
iv. Received a research grant of 38.5 lakhs from DST TIDE project in March 2013 for three years. *Title : " Medicine Recognition System and Alerting Device for Geriatrics and Visually Challenged"*
(File No: SEED/TIDE/043/2013(G) dated 12/08/2015)
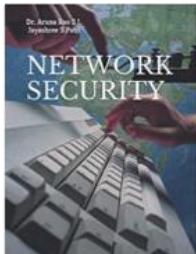PI- Dr. K. V. N. Sunitha, Principal, BVRITH
CO-PI-I – Mrs. S L Aruna Rao, HoD-IT, BVRITH
Co-PI-II – Dr. J. Naga Vishnu Vardhan, Professor & HoD-ECE, BVRITH

Patent Filed

1. Title "SMART CLASSROOM VIRTUAL REALITY HEAD MOUNTED DISPLAY DEVICE FOR VISUAL-SPATIAL LEARNERS" **Application no**: 202041052429 , Date filed: 02/12/2020
2. Title "IAEC- SYSTEM: INTELLIGENT IOT SYSTEM FOR AGRICULTURE ENVIRONMENT CONTROL" Application No.202041010147 A, Publication Date : 13/03/2020
3. Title: **HPML- Control:** HIGH-SPEED TRAIN SPEED PREDICTIVE CONTROL USING ANFIS MODELING AND MACHINE LEARNING

Book Published

Published a book titled "NETWORK SECURITY", ISBN-13: 979-8671985436, independently published on 3rd August 2020

Book Chapter Published

1. Aruna Rao S.L, K.V.N. Sunitha published a chapter titled "Secure Geographical Routing with an efficient Location verification mechanism" in book titled "Innovations in Computer Science & Engineering", Springer LNS Series, ISBN: 978-981-10-3817-4, July 2016.

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manet

ARTICLES   CITED BY   CO-AUTHORS

TITLE	CITED BY	YEAR
Secure geographical routing in MANET using the adaptive position update ASL Rao, KVN Sunitha International Journal of Advanced Computer Research 4 (3), 785	2	2014
Position verification technique for secure geographical routing in MANET SLA Rao, KVN Sunitha 2016 Thirteenth International Conference on Wireless and Optical …	1	2016
Secure Geographical Routing Using an Efficient Location Verification Technique SLA Rao, KVN Sunitha Innovations in Computer Science and Engineering, 177-184		2017
Trusted Secure Geographic Routing Protocol for Detecting Insider Attacks in MANET AR SL, KVN Sunitha International Journal of Engineering 8 (2), 187-197		2016