NAME : Dr.M.NEWLIN RAJKUMAR B.E.,M.S.,M.B.A.,Ph.D

DESIGNATION : Assistant Professor,

Department of Computer Science

and Engineering

Anna University Regional Centre

Coimbatore, Jothipuram

Coimbatore- 641 047

PHONE : +91-9952153334

EMAIL : Official: newlin@aurcc.ac.in

Personal: drmnrkaurccbe@gmail.com
newlin_rajkumar@yahoo.co.in



INTERNATIONAL PUBLICATIONS

INTERNATIONAL JOURNALS

IET -INTELLIGENT TRANSPORTATION SYSTEMS

 Alfred Daniel, Karthik, Balaanand Muthu, Newlin Rajkumar, Seifedine Kadry, Rakesh Kumar Mahendran, Sanjeevi Pandian "Procuring Cooperative Intelligence in Autonomous Vehicles for Object Detection through Data Fusion Approach", DOI: 10.1049/iet-its.2019.0784, 10pp, IET Intelligent Transport Systems, Print ISSN 1751-956X, Online ISSN 1751-9578, April 2020.

ELSEVIER – VEHICULAR COMMUNICATIONS

- Alfred Daniel, Karthik, Anand Paul, Newlin Rajkumar, Seungmin Rho "Big Autonomous Vehicular Data Classifications: Towards Procuring Intellegence in ITS", DOI: http://dx.doi.org/10.1016/j.vehcom.2017.03.002, Reference: VEHCOM 87, Manuscript of Vehicular Communications, Elsevier, March 2017, Veh. Commun. (2017), http://dx.doi.org/10.1016/j.vehcom.2017.03.002.
- 3. Alfred Daniel, Karthik, Anand Paul, Newlin Rajkumar, and Seungmin Rho, "Data Classifications Using Big Data Analytics for Autonomous Vehicles," Manuscript of Vehicular Communication, accepted, March 2017. (ISSN: 2214-2096).

- Dr.M.Newlin Rajkumar, S.Daison Stallon, "A STUDY ON ENERGY MODELING, COST PERCENTAGE OF VARIOUS PARTS IN WIND MILLS", International Journals of Advanced Research in Computer Science and Software Engineering (IJARCSSE), ISSN: 2277-128X, Volume-9, Issue-3, PP 7- 10, March 2019.
- Dr.M.Newlin Rajkumar, Jayashri Murali, Bhuvaneswari.P, "FIRE ACCIDENTS
 DETECTION AND PREVENTION IN A FIREWORKS INDUSTRY USING IOT"
 International Journals of Advanced Research in Computer Science and Software
 Engineering (IJARCSSE), ISSN: 2277-128X, Volume-9, Issue-3, PP 67 69, March 2019.
- 3. Dr.M.Newlin Rajkumar, S.Vickma, D.Sushitra, P.L.Preetha Rexlin "PREVENTION OF DISTRIBUTED DENIAL OF SERVICE FLOODING ATTACKS USING DYNAMIC RANDOM AND SECURE PATH IDENTIFIERS", in the IOSR Journal of Engineering(IOSRJEN) ISSN: 2250-3021 Volume 9, Issue 5, PP 30-34, 2018.
- 4. Dr.M.Newlin Rajkumar, S.Vickma, D.Sushitra, P.L.Preetha Rexlin "SECURING WEB APPLICATIONS AGAINST CROSS SITESCRIPTING, INJECTION ATTACKS AND AUTHENTICATION ATTACKS", in the IOSR Journal of Engineering(IOSRJEN) ISSN: 2250-3021 Volume 9, Issue 5, PP 22-25, 2018.

- 5. Dr. M. Newlin Rajkumar, Dr.V.Venkatesa Kumar, R. Tharani, P. R. Harshani, S. Rajalakshmi, "RERIMS: Robust and Efficient Railway Industry Monitoring System in Wireless Sensor Network", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN: 2456-3307, pp. 113-117, Volume 2, Issue 6, Nov Dec 2017.
- 6. Dr. M. Newlin Rajkumar, Dr.V.Venkatesa Kumar, S. Rajalakshmi, P. R. Harshani, T.Umamaheswari, "A Survey on IoT Based Smart Home Automation Car Theft Prevention using Image Processing", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN: 2456-3307, pp. 85-89, Volume 2, Issue 6, Nov Dec 2017.
- 7. Dr. M. Newlin Rajkumar, R. Tharani, S. Rajalakshmi, T.Umamaheswari, "Scheduling Algorithms in Cloud Computing An Extensive Survey" International Journal of Trend in Scientific and Research and Development (IJTSRD), ISSN: 2456-6470, pp. 27-30, Volume 2, Issue 1, Nov Dec 2017.
- 8. S.Saranya Devi, Dr.V.Venkatesa Kumar, Dr.M.Newlin Rajkumar, "Scheduling Algorithms in Cloud Computing An Extensive Survey" International Journal of Trend in Scientific and Research and Development (IJTSRD), ISSN: 2456-6470, pp. 16-21, Volume 2, Issue 1, Nov Dec 2017.
- 9. A.Nandhini, Dr.V.Venkatesa Kumar, Dr.M.Newlin Rajkumar,"Survey on Finger Print Based Voting System using RFID" International Journal for Science and Advanced Research in Technology (IJSART), ISSN: 2395-1052, pp. 900-903, Volume 3, Issue 10, Oct 2017.
- 10. Dr. M. Newlin Rajkumar, K.Karthigeyan, "Smart Security Management for Zigbee GPRS Protocol using IoT", International Journal for Scientific Research in Computer Science Engineering and Information Technology (IJSRCSEIT), Volume 2, Issue 3, ISSN 2456-3307, June 2017.
- 11. Dr. M. Newlin Rajkumar, Megha.J.Prakash, "Concept design and implementation of an IOT enabled garbage management system for smartcities", International Journal for Science and Advanced Research in Technology (IJSART), Volume 3, Issue 6, ISSN 2395-1052, June 2017.
- 12. D.Ragunath, Dr. V. Venkatesa Kumar, Dr. M. Newlin Rajkumar, "Distributed Heuristic Load Balancing System using Replication Approach" International Journal of Innovations in Scientific and Engineering Research (IJISER), ISSN: 2347-9728, pp. 7-12, Volume 4, Issue 4, April 2017.

- 13. Dr. M. Newlin Rajkumar, M.S.Sruthi, " **IOT based smart system for controlling CO2 Emission**", International Journal for Scientific Research in Computer Science Engineering and Information Technology (IJSRCSEIT), Volume 2, Issue 2, ISSN 2456-3307, Mar 2017.
- **14.** Dr.M.Newlin Rajkumar, M.Monisha, Dr.V.Venkatesa Kumar "**An Enhanced Routing Approach on the Void Regions in Underwater Sensor Networks**", International Journal of Advanced Trends in Engineering, Science and Technology (IJATEST), ISSN: 2456-1126, pp. 1-5, Volume 2, Issue 2, March 2017.
- **15.** Dr.M.Newlin Rajkumar, N.Ushanandhini, "Multiple Mobile Sink Implementations with Optimal Re-Scheduling Algorithm For Hybrid WSN", International Journal of Innovations in Scientific and Engineering Research (IJISER), ISSN: 2347-9728, pp. 1-6, Volume 4, Issue 2, February 2017.
- 16. Dr.M.Newlin Rajkumar, V.Kavitha, Dr.V.Venkatesa Kumar "**Data protection Scheme for Cloud Computing using Attribute and Policy Encryption**", SSRG International Journal of Computer Science and Engineering, SSRG IJCSE-ICETSST-Part 2, , ISSN 2348-8387, pp. 118-122, February 2017.
- 17. Dr. M. Newlin Rajkumar, M.S.Sruthi, "Smart iot based system for co2 monitoring and forest fire detection with effective alert mechanism", International Journal for Science and Advanced Research in Technology (IJSART), Volume 3, Issue 2, ISSN 2395-1052, Feb 2017.
- 18. Dr. M. Newlin Rajkumar, M.Ranjani, "Toll Gate Vehicle Monitoring System A Preview", International Journal of Computer Sciences and Engineering (IJCSE), Volume 5, Issue 2, ISSN 2347-2693, Feb 2017.
- 19. Dr. M. Newlin Rajkumar, S.Abinaya, "Automated Irrigation System A survey", International Journal for Science and Advanced Research in Technology (IJSART), Volume 3, Issue 2, ISSN 2395-1052, Feb 2017.
- 20. Dr. M. Newlin Rajkumar, P.Abirami, Dr. V Venkatesa Kumar, "Smart Garbage Collection Monitoring Systems", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), Volume 2, Issue 1, ISSN 2456-3307, Feb 2017.
- 21. Dr. M. Newlin Rajkumar, Megha.J.Prakash, "An Extensive Survey on Garbage Management Systems Using Internet Of Things", International Journal of Modern Computer Science and Applications (IJMCSA), Volume 5, Issue 1, ISSN 2321-2632, Jan 2017.

- 22. Dr. M. Newlin Rajkumar, Ms.Malarvizhi, Dr. V Venkatesa Kumar, "Smart way of communication for Disaster Recovery", International Journal of Advanced Trends in Engineering Science and Technology (IJATEST), Volume 2, Issue 1, ISSN 2456 1126, Jan 2017.
- 23. Dr. V. Venkatesa Kumar, Dr.S. Daniel Madan Raja, Dr. M. Newlin Rajkumar, "An Enhanced Resource Optimization for Cloud Based Applications", Asian Journal of Information Technology, Volume 15, Issue 3, ISSN 1682 3915, pp 627-634, 2016.
- 24. Dr.M.Newlin Rajkumar, M.Lavanya, "Disabled people with Neuro Sky Mind Wave in Brain Computer Interface", International Journal for Scientific Research & Development (IJSRD) VOLUME 4, ISSUE II APRIL 2016, ISSN: 2321-0613.
- 25. Dr.M.Newlin Rajkumar, M.Lavanya, "Brain Computer Interface techniques for Physically challenged people", International Journal of Emerging Technologies in Engineering Research (IJETER), VOLUME 4, ISSUE IV APRIL 2016, ISSN: 2454-6410,
- 26. Dr. M. Newlin Rajkumar, M. U. Shiny Amsarani.R, "Detection of wormhole attack using cooperative bait detection scheme", World Scientific News, WSN 49(2) (2016) 78-89 EISSN 2392-2192, 2016.
- 27. Dr. M. Newlin Rajkumar, Vijaya Lakshmi.A , M. U. Shiny "Survey of Secure Two Parties Confidential Information Release in Vertical Partitioned Data", World Scientific News, WSN 45(2) (2016) 126-136 EISSN 2392-2192. 2016.
- 28. Dr.M.Newlin Rajkumar, K.R.Seena, S.Mohan Kumar, V.Dhurka, "Ontology Based Automatic Generation of Domain Module from Electronics Books", International Journal of Emerging Technologies in Engineering Research (IJETER), Volume 4, Issue 3, March 2016, ISSN: 2454-6410, pp.116-118. 2016.
- 29. Dr.M. Newlin Rajkumar, R.Rajeswari, M.Nithya, "Healthcare Monitoring System Using Wireless Sensor Networks", International Journal Of Advanced Research in Biology, Engineering, Science and Technology (IJARBEST), VOLUME 2,SPECIAL ISSUE 10 MARCH 2016, pp.1253-1260.
- 30. Dr.M.Newlin Rajkumar, M.Lavanya, "A Novel Method for Disabled People", International Journal for Research in Applied Science & Engineering Technology (IJRASET), VOLUME 4, ISSUE III MARCH 2016, ISSN: 2321-9653, pp.185-186.
- 31. M. Newlin Raajkumar, P.Hemalatha, M.Nithya, "Efficient and Portable Finger Print Based Attendance System Using Geo-Sensor", International Journal Of Advanced Research in Biology, Engineering, Science and Technology (IJARBEST), VOLUME 2,SPECIAL ISSUE 10 MARCH 2016, pp.1276-1280.

- 32. Dr.M.Newlin Rajkumar, S.Mohan Kumar, V.Dhurka "Generating Summary Risk Scores For Mobile Applications", International Journal of Contemporary Research in Computer Science and Technology (IJCRCST), Vol 2, Issue 3, e-ISSN: 2395-5325, March 2016.
- 33. Dr.M.Newlin Rajkumar, M.Lavanya, R.S.Juslin Sega, "Recent trends for Physically Challenged People", International Journal of Advanced and Innovation Research (IJAIR), Vol 5, Issue 2, ISSN: 2278-7844, Feb 2016.
- 34. Dr.M.Newlin Rajkumar, M.Nithya, M.Krithika, "Security Requirements and Mechanisms in Vehicular ADHOC Networks (VANET)", International Journal of Advanced and Innovative Research (IJAIR), Vol 5, Issue 2, ISSN: 2278-7844, Feb 2016.
- 35. Dr.M.Newlin Rajkumar, M.Lavanya, "An Electronic Device for Physically Challenged People", International Journal for Science and Advance Research in Technology (IJSART), Vol 2, Issue 2, ISSN: 2395-1052, 2016.
- 36. Dr. M. Newlin Rajkumar, P.HemaLatha "Automatic Efficient Accident Detection and Emergency System Using Smart Phones: (Accelerometer Sensor)", World Scientific News, WSN 41 (2016) 223-226 EISSN 2392-2192.
- **37.** Dr.M. Newlin Rajkumar, M.Nithya, P.Hemalatha, R.Rajeswari, "**Topology Based Routing Protocols in Vehicular Ad-Hoc Networks (VANET)**", World Scientific News, WSN 41 (2016) 200-207 EISSN 2392-2192, 2016.
- **38.** Dr. M. Newlin Rajkumar, Dr.V. Venkatesa Kumar, "Cloud Computing and its Security Prespectives", World Scientific News, WSN 41 (2016) 51-53 EISSN 2392-2192, 2016.
- **39.** Dr. M. Newlin Rajkumar, Amsarani.R , M. U. Shiny "Survey of Several IP Traceback Mechanisms and Path Reconstruction", World Scientific News, WSN 40 (2016) 12-22 EISSN 2392-2192, 2016.
- **40.** Dr. M. Newlin Rajkumar, M.Nithya, P.HemaLatha "Overview of VANET with its features and Security Attacks", International Research Journal of Engineering and Technology (IRJET), Vol 3, Issue 1, e-ISSN: 2395-0056, p-ISSN: 2395-0072, 2016.
- **41.** Dr. M. Newlin Rajkumar, P. Kayathri, V. Dhurka, "Survey on Message Filtering Techniques for On-line Social Network", World Scientific News, WSN 40 (2016) 163-174 EISSN 2392-2192, 2016.
- **42.**Dr. M. Newlin Rajkumar, V.Dhurka, P.Kayathri, "Survey on Secured Privacy Authentication with recovery", World Scientific News, WSN 37 (2016) 265-278 EISSN 2392-2192, 2016.

- **43.** Dr. M. Newlin Rajkumar, Dhurka "A Secured Privacy Authentication with recovery", International Research Journal of Engineering and Technology (IJRET), Vol.2 Issue.8, ISSN 2395-0056. November- 2015.
- **44.** Dr. M. Newlin Rajkumar, R.Suresh "A Medical Image Retrieval System Using Hybrid Focs Framework", International Journal of Computer Science and Mobile Computing (IJCSMC), Vol.4 Issue.11, pg. 256-266, ISSN 2320–088X, November- 2015.
- 45. Dr. M. Newlin Rajkumar, M.Lavanya "An Electronic Device to aid the Physically Challenged people using Brain Waves'.", International Journal of Engineering Techniques (IJET), Volume 1, Issue 5, ISSN 2395 1303, October 2015.
- 46. Dr. M. Newlin Rajkumar, Dr. V Venkatesa Kumar, Brighty Batley C, Lakshmi Rekha "Attribute Based Encryption for Key Policy Using Decentralized Approaches in cloud Computing-A Review", International Journal of Modern Computer Science and Applications (IJMCSA), Volume 3, Issue 2, ISSN 2321 2632, April 2015.
- 47. Dr.M.Newlin Rajkumar. Loganathan.P "Opportunistic Data Forwarding in Manet", International Journal For Trends In Engineering & Technology (IJTET) Volume 3 Issue 3 –ISSN: 2349 9303, March 2015.
- 48. Dr.M.Newlin Rajkumar, C.Chatrapathi, Dr. V.Venkatesa Kumar, "Smart Accident Management Model: a collaboration of IOT and Body Area Network", International Journal on Applications in Information and Communication Engineering (IJAICE) Volume 1 Issue 2, ISSN: 2394-6237, March 2015.
- 49. Dr.M. Newlin Rajkumar. Mahadevan. T " Dynamic Load Balancing in Multimedia Cloud Computing with GA an immigrant scheme using Cloud analyst Tool", International Journal For Trends In Engineering & Technology (IJTET) Volume 3 Issue 3 ISSN: 2349 9303, March 2015.

NATIONAL PUBLICATIONS

 Dr. M. Newlin Rajkumar, Dr. V Venkatesa Kumar "Security Issues in Cloud Computing", National Conference on "Internet of Things", organized by the Department of CSE & IT, Sponsored by UGC, Avinasilingam University, Institute for Home Science and Higher Education for Women, Coimbatore. 18 & 19 February 2016.

INTERNATIONAL CONFERENCES

- Daison Stallon, Dr.M.Newlin Rajkumar, "A simplified algorithm study on Windpower Curve Estimation by using Matlab Source", Proceedings of Virtual International Conferences on Power Initiatives (ICPI), 22nd and 23rd July 2020 organized by K.Ramakrishnan College of Engineering, trichy in association with IEEE Advancing Technology for Humanity.
- 2. Dr.M.Newlin Rajkumar, "Effective Crop Productivity and Nutrient Level Monitoring in Agriculture soil using IOT", Proceedings of the IEEE International Conference on Soft Computing and Network Security (ICSNS 2018), 14 to 16th Feb 2018, SNS College of Technology in Association with Kyunpook National University, South Korea.
- 3. Dr.M.Newlin Rajkumar, "Smart Security Management for Zigbee GPRS Protocol using IoT", Proceedings of the Sixth International Conference on Advances in Computing Control Communication Automation and Structural Engineering (ACCCAS'17) organized by the Department of Civle, ECE, EEE, Mech and S&H, Al-Ameen Engineering College, Erode on 8th April 2017.
- 4. Dr.M.Newlin Rajkumar, "Intelligent Irrigation System An IoT based approach", Proceedings of the IEEE International Conference Innovations in Green Energy and Healthcare Technologies (IGEHT'17), organized by the Department of BME and Department of EEE, Dr.N.G.P. Institute of Technology, Coimbatore, in association with Florida Atlantic University, USA, 16th and 17th March 2017.
- 5. Dr.M.Newlin Rajkumar, "Data protection Scheme for Cloud Computing using Attribute and Policy Encryption", Proceedings of the International Conference on Emerging Trends in Engineering, Science and Sustainable Technology (ICETSST'17), organized by the Department of CSE, Erode Sengunthar Engineering College, Erode, 17th and 18th February 2017,
- 6. Dr.M.Newlin Rajkumar, "Healthcare Monitoring system using Wireless Sensor Networks", Proceedings of the International Conference on Global Innovations in Computing Technology (ICGICT'16), organized by the Department of CSE, Jay Shriram Group of Institutions, in association with Samuel Ginn College of Engineering, Auburn University, USA, 4th and 5th March 2016,
- 7. Dr.M.Newlin Rajkumar, "Geosensing Based Attendence Marking System Using Mobile Application", Proceedings of the International Conference on Global Innovations in Computing Technology (ICGICT'16), organized by the Department of CSE, Jay Shriram Group of Institutions, in association with Samuel Ginn College of Engineering, Auburn University, USA, 4th and 5th March 2016.

- 8. Dr.M.Newlin Rajkumar, "**Denial of Service Attack detection in Cloud Computing**", Proceedings of the Third International Conference on Innovative Research in Engineering and Technology (iCIRET'15), organized by the Park College of Engineering and Technology, Coimbatore, 9th, 10th and 11th April 2015.
- 9. Dr.M.Newlin Rajkumar, "Efficient Cloud backup using Chunking of Data", Proceedings of the Third International Conference on Innovative Research in Engineering and Technology (iCIRET'15), organized by the Park College of Engineering and Technology, Coimbatore, 9th, 10th and 11th April 2015.
- 10. Dr.M. Newlin Rajkumar, "Secure the content based Image Search Data using Encryption and Randomization in Cloud", Proceedings of the International Conference on Recent Advances and Innovations in Engineering and Technology (ICRAIET '15), 20th and 21st March 2015, Ranganathan Engineering College, Coimbatore.
- 11. Dr.M.Newlin Rajkumar, "A Novel method for Delegating Access Control with Privacy Assurance in Public Clouds", Proceedings of the International Conference on Recent Advances and Innovations in Engineering and Technology (ICRAIET '15), 20th and 21st March 2015, Ranganathan Engineering College, Coimbatore.
- 12. Dr.M. Newlin Rajkumar, "Certain Approaches Towards Secure Data Storage in Cloud Computing using Decentralized Access Control with Anonymous Authentication", Proceedings of the International Conference on Recent Advances and Innovations in Engineering and Technology (ICRAIET '15), 20th and 21st March 2015, Ranganathan Engineering College, Coimbatore..
- 13. Alfred Daniel, Dr. Anand Paul, Dr. Newlin Rajkumar, "**Embedded Surveillance System for Vehicular Networks**" IEEE Sponsored 2nd International Conference on Electronics and Communication Systems (ICECS '2015), Pages: 1247 1252, Print ISBN: 978-1-4799-7224-1, 26th & 27th FEB 2015, Karpagam College of Engineering, Coimbatore.
- 14. Dr.M.Newlin Rajkumar, "VANET based Integrated Framework for Smart Accident Management System", Proceedings of the IEEE International Conference on Soft Computing and Network Security (ICSNS 2015), 25 to 27th Feb 2015, SNS College of Technology in Association with Kyunpook National University, South Korea.
- 15. Dr.M.Newlin Rajkumar, "Dynamic Load balancing in Multimedia Cloud Computing with GA

 an Immigirant scheme using Cloud Analyst Tool", Proceedings of the International Conference on Innovations in Communications and Computer Engineering (ICICCE 2015), 15th Feb 2015, Coimbatore Institute of Technology, Coimbatore.
- 16. Dr.M.Newlin Rajkumar, "Oppurtunistic Data Forwarding in MANET", Proceedings of the International Conference on Innovations in Communications and Computer Engineering (ICICCE 2015), 15th Feb 2015, Coimbatore Institute of Technology, Coimbatore.

NATIONAL CONFERENCES

- 1. M.Newlin Rajkumar, "Implementation of IoT Gateway in Measuring and Controlling the Voltage and Current of Smart Home Appliances", One day National Conference Intelligent Information and Computing Technologies (IICT'17), on 3rd March 2017, Department of CSE, RVS College of Engineering and Technology, Coimbatore.
- M.Newlin Rajkumar, "Energy consumption analysis and energy reduction in Heterogeneous Hybrid Wireless Networks", Two days National Conference on Advancements in Computing Methodologies (NCACM'17), on 23rd April 2017 & 24th April 2017, Department of CSE, Anna University Regional Campus, Coimbatore – 641 047.
- 3. M.Newlin Rajkumar, "An Electronic device for Psysically Challenged people", National Conference on Advancement in Information and Communication Techniques, on 19.03.2016, Angel College of Engineering and Technology, Tiruppur.
- 4. M.Newlin Rajkumar, "Denial of Sercive Attack Detection in Cloud Computing", National Conference on Information, Computation and Communications on 6th & 7th March 2015, Kalaignar karunanidhi Institute of Technology, Coimbatore.
- 5. M.Newlin Rajkumar, "Efficient Cloud Backup using Chunking of Data", National Conference on Information, Computation and Communications on 6th & 7th March 2015, Kalaignar karunanidhi Institute of Technology, Coimbatore.