## Department of CSE

### Personal Details

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| **Name :** | Dr. B. MUTHUSENTHIL |
| **Designation :** | ASSOCIATE PROFESSOR |
| **Educational Qualification :** | B.E , M.E , Ph.D , Post Doc (South Korea) |
| **Experience:** | 20 |
| **Area of Specialization :** | CSE |
| **Date of Joining :** | 08/07/2013 |
| **Email ID :** | bmssen@gmail.com, muthusenthilb.cse@valliammai.co.in |
| **Contact Numbers :** | 9841898449, 044-27454784 **Extn:8134** |

### Educational Details

| S.No | Degree | Branch/Specialization | Institution / University | Year |
|---|---|---|---|---|
| 1 | BE | Electronics and Communication Engineering | Madras University | 1996 |
| 2 | ME | Computer Science and Engineering | Satyabama University | 2007 |
| 3 | PhD | Information and Communication Engineering | AnnaUniversity | 2016 |
| 4 | Post Doctoral Fellowship | Network Video Security | WookYoung Information Technology – South Korea | 2018 |

### Professional Society Memberships

Life Member ISTE – **LM56702**

Life Member IACSIT – **80347280**

Life Member SDIWC - **25068**

Korean Research Number - **11761768**

Life Member CSI – **LM01429**

Indian Science Congress – **A6765**

Member MCSA – **3929260**

Science and Engineering Institute (SCIEI) - **201607300002**

ISRD   -      **M4150901601**

### Publication Details

**Journals:**

1. **Dr. B.Muthusenthil,** M. Santhosh, G. Srinath, B. Yuvaraj "Geo-Based Smart Parking Automation System"   - **International Research Journal of Engineering and Technology**, Volume 6, Issue 3 (March 2019) pp. 898-903, ISSN : 2395-0056.

2. **Dr.B.Muthusenthil** , Hareeni Shree R T , Madhubala J B "Foogle: Advanced Surveillance Technique to Find Missing Person with Face Search System"   - **International Journal of Innovative Research in Computer and Communication Engineering** , Vol. 7, Issue 2,

February 2019 pp. 645-652, ISSN(Online): 2320-9801.

3. **B. Muthusenthil**, H. Kim, V. B. S. Prasath. Location verification technique for cluster based geographical routing in MANET. Informatica, Revised, Sep 2018.

4. **B. Muthusenthi**l, V. B. S. Prasath. Modelling of kinematic real time fitness using IoT. Submitted, Sep 2018.

5. **B. Muthusenthil** & Hyunsung Kim "Light Weight Block Cipher Based Security and Privacy Approaches for CCTV Based Video Surveillance System" **– Submitted to Multimedia Tools and Applications.** Submitted, Mar 2018.

6. Muthusenthil & Hyunsung Kim "CCTV Surveillance System, attacks and design goals" – **International Journal of Electrical and Computer Engineering** Vol. 8, No. 4, August 2018, pp. 2072~2082 ISSN: 2088-8708, DOI: 10.11591/ijece.v8i4.pp2072-2082 **(IF 0.43)**

7. **Muthusenthil B, Ravishanker S, Sivaraman V, Srinath R. M** "Classification of Melanoma Thickness from Dermoscopic Images using Mobile Devices" **Global Research and Development Journal for Engineering** Volume 3 Issue 5 April 2018 ISSN: 2455-5703.

8. **Muthusenthil B**, Joshuva J , Kishore S & Narendiran K "Smart Assistance for Blind People using Raspberry Pi"  - **International Journal of Advance Research, Ideas and Innovations in Technology**, Volume 4, Issue 2 (March 2018) pp. 884-891, ISSN ISSN: 2454-132X.

9. Muthusenthil, B , Hyunsung Kim, "SHRP Secure Hybrid routing protocol for wireless sensor networks" **– International Journal of Journal of Computers Communications & Control** ISSN 1841-9836 Volume 12, Number 6 (2017) pp. 825 -841. **(SCI-E - Impact Factor  1.29 (Q3))**

10. Muthusenthil & Hyunsung Kim Trust evaluation scheme for cloud data security using fuzzy based approach "  **- International Journal of Applied Engineering Research**, Vol 12, No 13 (2017) pp. 3908-3913, ISSN 0973-4562 **(SCOPUS – IF 0.14).**

11. Muthusenthil, B , Hyunsung Kim & Murugavalli, S 2015, Privacy Preservation and Protection Scheme over ALARM on Geographical routing, **IEEE Xplore  10.1109/SecTech.2015.10**

12. Muthusenthil, B & Murugavalli, S 2015, Privacy Preservation and Protection for Cluster Based Geographic Routing Protocol in MANET – **Wireless Networks**◎, Springer Publications, DOI 10.1007/s11276-015- 1135-5 (**(SCI - Impact Factor  1.981)**

13. Muthusenthil, B & Hyugsung Kim, 2016, Non-interactive Security Framework for Mobile Device based Academic Monitoring System◎, **International Journal of Security and Its Application**◎, vol. 10, no. 1,pp.265-276 **(SCI-E –Impact Factor  0.49)**

14. Muthusenthil, B & Murugavalli, S 2014, The Impact of Location Based Attacks on Geographical Routing Protocols◎, JATIT **Journal of Theoretical and Applied Information Technology**, vol.60, no.2, pp.189 - 199 **(SCOPUS IF 0.38)**.

15. Muthusenthil, B & Murugavalli, S 2014, Location Aided Cluster based Geographical Routing Protocol for Intermittently Connected MANET◎ – IRECOS **International Review on Computers and Software**, vol.9, no.1, pp.1- 8. (**SCOPUS**).

16. Muthusenthil, B & Murugavalli, S 2015, Performance Evaluation of GPSR with ALERT in Mobile Ad-hoc Networks◎, **International Journal of Applied Engineering Research**, vol.10, no.17, pp.13482-13491 ISSN 0973-4562(**SCOPUS IF 0.14**).

17. Muthusenthil, B & Murugavalli, S 2015, CBMT: Cluster Based Integrated Maximum Maturity Model For Mobile Ad-hoc Network◎, **International Journal of Applied Engineering Research**, vol.10, no.44, pp.31107-31113, ISSN 0973-4562 (**SCOPUS IF 0.14**).

18. Muthusenthil, B Samy durai A and Vijayakumaran C, S 2015, "IMAP- Intelligent Management Of Attendance Processing Using Vj  Algorithm For Face Detection" , **International Journal Of Innovative Research In Technology,** Vol 2 no 1 | ISSN: 2349-6002.

**International Conferences:**

1. B. Muthusenthil "Performance Evaluation of GPSR with ALERT in Mobile Ad-hoc Networks" Paper presented in *"National Conference on Computer Communication & Networking" on Feb , 2014* at Noorul Islam University, Nagercoil.

2. B. Muthusenthil "Reencryption scheme for secure data sharing" Paper presented in *"IEEE International Conference on Communication and Signal Processing"* 978-1-5090-0396-9/16/$31.00 ©2016 IEEE.

3. B. Muthusenthil and Nasreen B "Vehicle Monitoring Using WSN with improved NLT" Paper presented in *"IEEE International Conference on Communication and Signal Processing"* ©2017 IEEE

4. B. Muthusenthil and Hyun sung kim "Video Security and Privacy System for CCTV" Paper presented in *"International Conference on Computing Convergence and Applications"* held in Spain August 17 -20 , 2017

5. B. Muthusenthil and Hyun sung kim "Location Verification Technique for Cluster Based Geographical Routing in MANET" Paper presented in *"International Conference on Communications and Future Internet (ICCFI 2017)"* held in Jeju Island, August 10-13, 2017.

6. B. Muthusenthil and Hyun sung kim "Trust evaluation scheme for cloud data security using fuzzy based approach" (Paper ID: 218)" Paper presented in *"3rd International Conference on Cloud Computing and Security (ICCCS 2017)"* held on June 16-18, 2017 in Nanjing, China.

7. B. Muthusenthil and Hyun sung kim "SecuEDGE - Video Security and Privacy IoT device for CCTV" Paper presented in *"3rd International Workshop on Convergence Information Technology (IWCIT 2017)"* held in Busan, Korea December 21 - 23, 2017.

8. B. Muthusenthil and Vijayakumaran "Reliable NextGen Cyber Security Architecture for Industrial Internet of Things (IIoT) Landscape" Paper presented in *"International Conference on Future Internet Systems and Applications"* held in International UUM InterNetWorks Malaysia December, 2018.

9. B. Muthusenthil "Speech based Examination Android App" Paper presented in *"International Conference on. Information embedded and communication systems"* held in St Joseph college of Engineering, 22nd March 2019.

10. B. Muthusenthil "Smart Storage with the Internet of Things and Voice Recognition" 2nd International Research Conference and Innovation Exhibition held 25 - 27 November 2019 at Johor Bahru Malaysia.

**National Conferences:**

1. B.Muthusenthil "Hand Gesture Recognition based on 3D MEMS Accelerometer and i2c Protocol for Smart Phone" *National Conference on Signal Conference on Signal Processing and Embedded System Applications (NCSPES -2012) on 25th Jan 2012 at TJ Insititute of Technology..*

2. **B.Muthusenthil "**WSN based Road Nail Algorithm for Intelligent Road Marking System based on V-I Communication" Paper presented in *"National Conference on Emerging Trends in computation and Information Technology" on March 30, 2012 at KCG College of Technology, Chennai.*

3. **B.Muthusenthil** "Design and Implementation of high speed low power booth multiplier for DSP Applications" Paper presented in *"National Conference on Communication , VLSI and Signal Processing" on March 15 & 16, 2012 at Rajaas Engineering College Chennai.*

4. **B.Muthusenthil "**Preprogrammed Portable GPS Navigation Aid for fishermen and distress alert system" Paper presented in *"National Conference on Emerging Trends in computation and Information Technology" on March 30, 2012 at KCG College of Technology, Chennai.*

5. **B.Muthusenthil "**Efficient Authentication In Multicast Signature" Paper presented in *"National Conference on Embedded, Microwave & Integrated Technologies" on March 24 & 25,*

*2011 at Saveetha Engineering College, Thandalam, Chennai.*

6. **B.Muthusenthil** "Automatic Webpage Classification" Paper presented in *"National Conference on Computer Communication & Networking"* on *March 29, 2009 at SMK Fomra Insitute of Technology,Kelambakkam Chennai.*

| Research and Development Details |
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### Online Courses

- ✓ Introduction to Haskell Programming (NPTEL)
- ✓ Network Security (NPTEL)
- ✓ Object Oriented Programming (NPTEL)
- ✓ Stress Management (NPTEL)
- ✓ Introduction to Java Programming (NPTEL)
- ✓ Natural Hazards(NPTEL – undergoing)
- ✓ Introduction to Deep Learning (One Fourth Labs – IITM)
- ✓ Introduction to Data Science (University of Berkeley – undergoing)

### Grant Received

1. Principal Investigator - DietY , a sum of Rs. 2, 00000/- (Rupees Two Lakhs has been received from the Department of Electronics and Information Technology (DeitY) to meet the expenditures of **"National Workshop on Awareness in Developing Intellectual Property Rights and Patents"** held on 20 and 21st August 2015.
2. Principal Investigator - CSIR, a sum of Rs. 50000/- (Rupees Fifty thousand has been received from the CSIR grant no. SYM/9043/16-HRD to meet the expenditures of **"National workshop on Impact of the Internet of Things on Big Data"** during Apr 05-07, 2017.

### Patents Filed

**"ALL IN ONE PORTABLE SMART PILL BOX: A Design of Smart Pill Kit"** Patent application 201841028737 has been published in Patent Office Journal.

### Funding Submitted

Modelling Of Kinematic Real Time Fitness Analytical Tool Using IoT – 16 Lakhs
Smart Med-kit device: An IoT enabled Toolkit in Assisting MedPills for elderly patients – 5 lakhs

### Supervisor Guide-ship

1. Approved Anna University Supervisor Recognition – Number 3140034

### Foreign Collaboration

Principal Research Scientist, WookYoung Information Technology. South Korea

| Invited Talk |
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- **Sensing techniques and sensors** – ARM college of Engineering and Technology on Dec 13 and Dec 20, 2014.
- **SecuEDGE - Video Security and Privacy IoT device for CCTV -** WooKyoung Information Technology, Bukgu Daegu on August 14 , 2017
- **Deep Learning and its Applications -** Valliammai Engineering College, Chennai on December 3 , 2018

Attended one month Research Internship programme at **Kyungil University, South korea** under

the guidance of **Prof Hyun sung kim**.

- **IBM Certified** Trainer – Object Oriented Analysis and Design using the UML with Fundamentals of Rational Rose at Sep 7-8 , 07
- **ISO** Training Attended at SMK Fomra Institute of Technology on July 20, 2007.
- **NITTR** Training Attended at SMK Fomra Institute of Technology on July 9-11 2007.
- **Mission 10X** Training Attended conducted by Wipro at Anand Institute of Higher Technology.
- Attended one day training programme "Role of NSS in Promoting sustainable sanitation" conducted by Anna Univeristy- Chennai on Dec 6 , 2008.
- Attended one day training programme "Applications of DataMining" conducted by SMK Fomra Institute of Technology on Oct 8 , 2008.
- Attended one day training programme "Workshop on awareness of IPR and related issues" conducted by Anna University on Feb 21-22 ,2008.
- Attended 3 Days National Level Seminar "Recent Trends in Mobile Adhoc Networks" conducted by Dept of CSE , B.S Abdulrahman University on May 13-15 , 2010.
- Attended one day training programme "Applications of DataMining" conducted by SMK Fomra Institute of Technology on Oct 8 , 2008.
- Attended "Recent Trends in Network Technologies" a Faculty Development Programme conducted by AICTE – Saveetha Engineering College on April 21-28, 2010.
- Attended one day workshop "Glimpse of CCNA" conducted by SMK Fomra Institute of Technology on March 24 , 2012.
- Attended one day workshop "Current Research Trends using MatLab "conducted by SMK Fomra Institute of Technology on Nov 15 , 2012.
- Attended workshop "Network Simulator" conducted by Dept of CSE, SMK Fomra Institute of Technology on March 1-2 , 2013.
- Attended "Ethics in Teaching Learning Process" a Faculty Development Programme conducted by SMK Fomra Institute of Technology on March 27-28 , 2013.
- Attended National Level Seminar "Emerging Trends in Next Generation Wireless Networks" conducted by Dept of CSE , VIT University on August 28 , 2013.
- Attended National Level Workshop "Copyright protection and prevention using cryptography" conducted by Dept of CSE , VIT University on July 26 , 2013.
- Attended National Level Seminar "Structured Approach of methods and techniques behind Reasearch Methodology" conducted by Dept of CSE , SRM University on March 14-15 , 2014.
- Attended 2 Day event of ICTACT Bridge 2014 Institute Interaction Event of India on 26-27 Feb 14-15 , 2014.
- Attended National level Workshop on "Computer Networks and Network Simulation/Emulation using NS3", on 2nd and 3rd August 2014 at Amritha School of Engineering, Bengaluru.
- Attended National level Workshop on "Advances in Positioning, Navigation and Communication", on 18th and 19th August 2014 at SRM University, Chennai.
- Attended Seminar on "Video Search using Deep learning", on 20 April 2017 at U1 University (Asan campus), Bukgu Daegu.
- Attended Seminar on "Video recognition technology – machine learning-based ensemble learning ", on 17 July 2017 at U1 University (Asan campus), Bukgu Daegu

- Organized FDP on "Object Oriented Progamming" –  on 21, 22 May 2018 at Valliammai Engineerimg College.
- Organized workshop on "Deep learning and its Applications" –  on 10th August 2018 at Valliammai Engineerimg College.