

MURUGANANTHAM BALAKRISHANAN

6/307, Maraimalai Adigalar Street, Mogappair East, Chennai Tamilnadu, 600 037

Mobile: +91 9940023373, +91 9444123373

Email : bmuruganantham@gmail.com

PROFESSIONAL SUMMARY

Assistant Professor with 24+ years' experience, Areas of expertise include Database, Data warehouse, Service Oriented Architecture, Web services, Internet of Things.

Experienced as a Senior Consultant and academician professional with strong leadership and relationship-building skills.

Exceptional leader talented at Team work, Leadership and great Listener. Technically-savvy with outstanding relationship building, training and presentation skills.

RESEARCH INTEREST

Database Technology
Data warehouse
Service Oriented Architecture
Web services
Block Chain
Internet of Things
Machine Learning and Deep Learning

WORK HISTORY SUMMARY

May 2006 - Current

Assistant Professor (Selection Grade), SRM Institute of Science and Technology
(Formerly Known as SRM University) , Kattankulathur , Tamilnadu

July 2002 – August 2004

HOD / In charge, Periyar Centenary Polytechnic College, Thanjavur , Tamilnadu

September 2000 – June 2002

Senior Consultant, Gx.com , Trichy , Tamilnadu

March 1998 – August 2000

Lecturer, VELTECH Engineering College, Chennai, Tamilnadu

August 1997- February 1998

Programmer, Adroit Technologies , Chennai , Tamilnadu

October 1995 – July 1997

Programmer, BDPS , Karaikudi, Tamilnadu

August 1994 - September 1995

Technical Support Engineer, N&N Systems and Software, Chennai, Tamilnadu

EDUCATION

Ph.D. – 2018

SRM Institute Of Science And Technology (Formerly Known as SRM University) , Kattankulathur, Tamilnadu
Computer Science and Engineering

M.Tech - 2006

SRM Institute Of Science And Technology , Kattankulathur, Tamilnadu
Computer Science and Engineering

B.E – 1995

National Engineering College affiliated to Manonmaniyam Sundaranar University ,
Tirunelveli, Tamilnadu, Computer Science and Engineering

PROFESSIONAL MEMBERSHIP

Member, IET
Member, ISCA
Member, IAENG
Professional Member, IFERP

PATENT FILED

- Title of the Invention: **IOT– SMART CONTRACTS IN DATA TRUSTED EXCHANGE SUPPLIED CHAIN BASED ON BLOCK CHAIN**
- Title of the Invention: **CROP YIELD BY DETECTING HUMIDITY AND SOIL TEXTURE**
- Title of the invention: **A USER-CENTRIC SYSTEM FOR PRINTING DOCUMENTS AND A METHOD THEREOF**

JOURNAL PUBLICATION (Selected)

- Ruby Benita K , Ganesh Kumar S, **Muruganatham B**, Murugan A, “Authentic Drug Usage and Tracking with Blockchain Using Mobile Apps” , International Journal of Interactive Mobile Technologies, Vol 15, No 03 (2021)
- P. Rajesh , A. Murugan, **B. Muruganatham**, S. Ganesh Kumar, “Lung Cancer Diagnosis and Treatment Using AI and Mobile Applications” International Journal of Interactive Mobile Technologies, Vol. 14, No. 17, 2020
- **B. Muruganatham**, Srishti Agarwal, Aditya Raj Arora “Sentimental Analysis Using Twitter” , Journal of Critical Reviews, Vol 7, Issue 8, 2020
- Arunkumar.P, **B.Muruganatham**, S.Ganeshkumar, A.Murugan “ Electricity Optimization in a Community Using OpenCV and Machine Learning with Mobile Application” Webology, Volume 17, Number 2, December, 2020
- R.S.Aswini, **B.Muruganatham** , S.Ganeshkumar, A.Murugan “ Exploratory Data Analysis for Social Big Data Using Regression and Recurrent Neural Networks” Webology, Volume 17, Number 2, December, 2020
- Vinodha R , Ganesh Kumar.S, **Muruganatham.B**, Murugan.A “ Optimizing Network Convergence Of Isp By Tuning Routing Protocols” , Journal of Critical Reviews, Vol 7, Issue 8, 2020
- Ramya Subburaj, Murugan A, **Muruganatham B**, Ganesh Kumar S “Data Mart Construction For Semi- Structured Data Source Using Support Vector Machine“ Journal of Critical Reviews, Vol 7, Issue 8, 2020
- **B.Muruganatham**, RP Mahapatra, K Taparia, M Kumar “ Liver Disease prediction using an ensemble based approach” , Intelligent computing and Applications, 30th September 2020, pg – 507- 518,
- Keerthi Jayan, **B.Muruganatham**, “ Advanced Driver Assistance System Technologies and Its Challenges Toward the Development of Autonomous Vehicle” Intelligent computing and Applications, 30th September 2020, pg- 55-72
- P. Shamili, **B. Muruganatham**, B. Sriman “Understanding Concepts of Blockchain Technology for Building the Dapps” Intelligent computing and Applications, 30th September 2020, pg- 383-394
- **B.Muruganatham**, A.Murugan, Kriti Taparia, S.Ganesh Kumar, Mukul Kumar “Liver Disease Prediction Using Classification Algorithms”, International Journal of Advanced Science and Technology Vol. 29, No. 8, (2020), pp. 311-319
- Yash Panchal, **Muruganatham Balakrishnan**, “Rain Prediction Using Fog Computing”, International Journal of Advanced Science and Technology Vol. 29, No. 8, (2020), pp. 341-345

- Dhairya Jain, Ananjan Giri, **B. Muruganantham**, A. Murugan, S. Ganesh Kumar, “Smart Home Automation System using Hand Gestures, IoT and Service Oriented Architecture”, International Journal of Advanced Science and Technology Vol. 29, No. 03, (2020), pp. 6059 – 6067
- A. Murugan, Kushaal Tantia, Gautam Choudhary , **B.Muruganantham**, S.Ganesh Kumar, “Determining Crop to Be Planted In a Particular Region for Maximum Yield”, International Journal of Advanced Science and Technology Vol. 29, No. 6s, (2020), pp. 1884-1888
- **B.Muruganantham**, P.Shamili, S.GaneshKumar, A.Murugan, “Quantum cryptography for secured communication networks”, International Journal of Electrical and Computer Engineering (IJECE), Vol. 10, No. 1, February 2020, pp. 407-414
- S. Babeetha, **B.Muruganantham**, S. Ganesh Kumar, A. Murugan, “An enhanced kernel weighted collaborative recommended system to alleviate sparsity”, International Journal of Electrical and Computer Engineering (IJECE), Vol. 10, No. 1, February 2020, pp. 447-454
- S. Ganesh Kumar, B. Sriman, A. Murugan, **B. Muruganantham** “IoT-smart contracts in data trusted exchange supplied chain based on block chain”, International Journal of Electrical and Computer Engineering (IJECE), Vol.10, No.1, February 2020, pp. 438-446
- A. Murugan, Tushar Chechare, **B. Muruganantham**, S. Ganesh Kumar, “Healthcare information exchange using blockchain technology”, International Journal of Electrical and Computer Engineering (IJECE), Vol. 10, No. 1, February 2020, pp. 421-426
- A. Murugan, D. Gobinath, S. Ganesh Kumar, **B. Muruganantham**, Sarubala Velusamy, “A time efficient and accurate retrieval of range aggregate queries using fuzzy clustering means (FCM) approach” International Journal of Electrical and Computer Engineering (IJECE) Vol. 10, No. 1, February 2020, pp. 415-420
- Rajeswari .V and **Muruganantham.B** "A collection of classical collaborative Filtering methods for recommender Systems" International Journal of Pure and Applied Mathematics, Volume 119 No. 7 2018, 177-181
- D.Sowmia, **B.Muruganantham** "A survey on trade-off between storage and repair traffic in distributed storage systems" International Journal of Engineering & Technology, 7 (2.8) (2018) 379-381
- **B.Muruganantham**, K.Vivekanandan “Multi Perceptual Optimality Matrix Base Service Reliability Model “Journal of Software, July 18 2015, jsw.10.9.1045

- **B.Muruganantham**, K.Vivekanandan “Combinatorial Judgement Loom Through Utilization Factor (Uf) In SOA Trustworthiness Model” International Journal of Control Theory and its Applications, 9(25), 2016, pp. 279-293
- **B.Muruganantham**, K.Vivekanandan “Automatic Security Policy Composition for Composite Web Services” Australian Journal of Basic and Applied Sciences, 9(23) July 2015, Pages: 370-375
- **B..Muruganantham**, R.Mangalagowri “ Enhancing Data Privacy in web service Composition ” , Indian Journal of Science and Technology, Volume 9, Issue 37, October 2016
- **B. Muruganantham**, K.Vivekanandan “A Fault Tolerant and Reliability Mechanism For Web Services By Change Management And Broker” Journal of Theoretical and Applied Information Technology” 15 July 2016. Volume.89. Number.1 Pages 36-44
- **B. Muruganantham**, K.Vivekanandan, Dipayan Mondal “ Rollback Recovery Approach for Complex Composite Web Services to Enhance Reliability of Service” International Journal of Engineering Research & Technology Vol. 3 Issue 2, February – 2014
- Babeetha S, **Muruganantham B** "OTP: RSA Based Key Aggregation Mechanism for Secured data sharing in cloud" Australian Journal of Basic and Applied Sciences ,9(11), Pages : 651-656,2015
- K.Vivekanandan, **B.Muruganantham** , D.Venkatesh "Semantic Web Service Composition and Discovery using OWL-S Descriptions" , ACS – International Journal in Computational Intelligence, Volume – 05, Issue – 02 , Pp 67-73, 2014
- J.Jayapradha, **B.Muruganantham**, G.Archana " Improvisation of ELearning System Using Web Services Composition" , Communications in Computer and Information Science , 142 CCIS, Pp 27-32, 2011.
- G.Archana, **B.Muruganantham**, J.Jayapradha " Document Normalization of semantic based web search engines using page rank algorithm and hyper graph based clustering" , Communications in Computer and Information Science , 142 CCIS , Pp 464-467 , 2011

CONFERENCE PARTICIPATION AND PUBLICATIONS

- **B.Muruganantham**, Mukulkumar , Kriti Taparia “ Liver disease prediction using an ensemble based approach” , 5th International conference on Intelligent Computing and applications organised by CSE Department , SRMIST , NCR Campus , 6-8, December 2019
- **B.Muruganantham**, P.Shamili ,“ A systematic literature review of understanding the concepts of Block Chain Technology for building the DAPPS, 5th International

conference on Intelligent Computing and applications organised by CSE Department , SRMIST , NCR Campus , 6-8, December 2019

- **B.Muurganantham**, Keerthi Jayan , “A Survey on Advanced Driver Assistance System Technologies and its challenges towards the autonomous vehicle”, 5th International conference on Intelligent Computing and applications organised by CSE Department , SRMIST , NCR Campus , 6-8, December 2019
- **B.Murganantham**, Shamli, A.Murugan, S.Ganeshkumar “ Quantum Cryptography for secured communications networks” , International conference on future internet systems and applications, Organized by Melange Publications, Pudhucherry on 10 December 2018, Kuala Lumpur , Malaysia
- S.Ganeshkumar, Sriman, A.Murugan and **B.Muruganantham** “ IOT – smart contracts in Data Trusted Exchange supplied chain based on block chain, International conference on future internet systems and applications, Organized by Melange Publications, Pudhucherry on 10 December 2018, Kuala Lumpur , Malaysia
- A.Murugan, Thusar, **B.Muruganantham**, and S.Ganeshkumar, “ Healthcare Information Exchange using Block chain Technology” , International conference on future internet systems and applications, Organized by Melange Publications, Pudhucherry on 10 December 2018, Kuala Lumpur , Malaysia
- S.Babeetha, **B.Muruganantham**, S.Ganeshkumar and A.Murugan “ An Enhanced Kernal weighted collaborative recommended system to alleviate sparsity” ,International conference on future internet systems and applications, Organized by Melange Publications, Pudhucherry on 10 December 2018, Kuala Lumpur , Malaysia
- **B.Muruganantham** , S.Babeetha, “ Effective and efficient use of cloud in education”, National conference on cutting edge technologies in computing and Bioinformatics, Organized by Department of Computer Science and Engineering, Sriram College of Engineering on 10 March 2017
- **B.Muruganantham** and Barkavi “ Certificate Revocation for secure communication in MANET”, Third National Conference on Cloud computing and Network security on March 24-25 , 2014 , Organized by RMK Engineering College, Chennai
- **B.Muruganantham**, “ Self Adaptable data structure for Bring Your Own Device (BOYD) Network Application” International Conference on advances in computer science and Information Technology , Organized by Department of Computer Science and Engineering, Vels University on 28-29 March 2014.
- **B.Muruganantham** and Akansha Singh “ Automatic rule extraction from frequent rules in similar network sites” , National conference on advances in computer

science and Information technology organized by the department of computer science and engineering on 12 April 2013

- Participated in 98th Indian Science and Congress held at SRM Institute of Science and Technology (Formerly known as SRM University) , Kattankulathur , 3-7 January 2011
- Participated in 32nd Indian Engineering Congress on the theme of “ Innovation in Engineering : Competitive Strategy Perspective”, Organised by The Institute of Engineers (INDIA) hosted by Tamilnadu State Centre at Chennai during 21-23 December, 2017

WORKSHOPS / SEMINARS / CONFERENCES ORGANAIZED:

- International Conference on Internet of Things (ICIoT 2019) SRM Institute of Science and Technology (formerly known as SRM University) from 11.03.2019 to 15.03.2019, Member, Organizing Committee
- 2nd International Conference on Advanced Research in Engineering Science and Management, organized by Melange Publications, Pdhucherry on 23.03.2019, Member, Organizing Committee
- National Level Technical Symposium “ULTRON 2.0” , SRM Institute of Science and Technology (formerly known as SRM University) from 23.03.2018 to 26.03.2018, Convenor
- National Workshop on Internet Applications and Semantic Web services (NWIAS 2018), SRM Institute of Science and Technology (formerly known as SRM University) from 20.08.2018 to 21.08.2018, Member, Organizing Committee
- International conference on Recent Trends and Computing and Information Technology (ICRTCIT-2017) SRM Institute of Science and Technology (formerly known as SRM University) from 27.03.2017 to 31.03.2017, Member, Organizing Committee
- National level workshop on SOA and Web Service, SRM Institute of Science and Technology (formerly known as SRM University) from 20.08.2012 to 24.08.2012, Convenor,
- National Conference on Impact of Computing Technologies in Emerging Scientific Fields (NCICTE 2012), SRM Institute of Science and Technology (formerly known as SRM University) from 23.01.2012 to 25.01.2012, Member , Organizing Committee
- National Level Technical Symposium, “SEVENTH SENSE”, SRM Institute of Science and Technology (formerly known as SRM University) from 23.09.2010 to 24.09,2010, Convenor

ONLINE COURSES:

- Introduction to Block chain technology and applications, NPTEL, IIT, Kanpur
- Block Chain Basics, Coursera, The State University of Newyork
- Introduction to Virtual Reality, Coursera , University of London
- Introduction to Software Product Management, Coursera , University of Alberta
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, Coursera, Deep learning.ai
- Innovation Management & Intellectual Property -101,IEEE
- Database Management System, NPTEL, IIT Kharagpur
- Cloud Computing NPTEL, IIT Kharagpur
- Google Analytics for Beginners, Google Analytics Academy
- Cryptography 1, Coursera , Stanford University
- Compilers , , Coursera , Stanford University
- Internet History , Technology and Security, University of Michigan
- Internet of Things: Communication Technologies, Coursera, University of California San Diego
- Internet of Things & Augmented Reality Emerging Technologies, Coursera, Yonsei University
- Database – DML Statements and SQL Server, Alison Certification
- IT Management – Software and Databases, Alison Certification
- Diploma in Web Design , Alison Certification
- Introduction to PHP and MySQL Programming , Alison Certification

PROMINENT CONTRIBUTIONS APART FROM ACADEMIC ACTIVITIES

- Resource Person for SRMJEE Promo activity at Gorakhpur and Moradabad Utter Pradesh for the academic year 2019-2020
- Served as a **Counselling Coordinator** from 2010 to 2019 at SRMIST, NCR Campus and on 2020 at SRM University, Haryana Campus
- CSE Students **Association Coordinator** for two times (2010, 2018)
- **University Practical Exam Coordinator** for four years (2015-2017, 2019-2020)
- **Conducted Inspection in four states** (Utter Pradesh, Delhi, Punjab and Haryana) to identify the right places to conduct SRMJEE. Conducted Inspection in 28 Schools and Colleges in 10 days, 2010.

- **SRMJEE coordinator** for various places all over the country including Andaman Nicobar Island, Chandigarh, Jagtiyal, Dehradun, Lucknow, Hyderabad, Vijayawada, Trichy, Tanjore
- **SRMJEE Online Examinations Observer** for various places including Moradabad, Meerut, Gaziabad, Ernakulam, Cochin
- Worked as **NSS Officer** for Two years (2010 - 2012)
- **Part time Course Coordinator** for five semesters (2015-2018)
- **Resource Person** for part time courses from 2006 to till date
- **Resource Person** for MS linked PhD Degree
- For **Admission Promotion Activities** went to various places as **Motivational Speaker** (Gaziayabad, Deheradun, Ranchi, Gorakpur, Muradabad) .
- **Key member in Convocation seating committee** (13 Convocation and 4 Special Convocation)
- Continuous 13 years **VIP Seating In-charge** for all the convocation and special convocation.
- Key member in **Hospitality Committee** for ISCA.
- University level **Anti Ragging Committee member**
- Served as a **hospitality committee member** for various accreditation activities like NBA, UGA, NAAC, AICTE , IET.
- **Coordinator, Member** as well as **Resource Person** for SRM-DINAMALR (Daily Newspaper)“VAZHKAATI” programme (Career Guidance programme for School students looking for college admissions)
- **Resource Person** for Dinamalar (Daily Newspaper) “ JEYETHU KATTUVOM” (Career Guidance programme for School students looking for college admissions)