

BIO-DATA

Name: Dr.B. LAVANYA , M.C.A., Ph.D

Designation: Associate Professor

Specialization: Data Science, Data Mining, Bioinformatics

CONTACTS

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Office: Department of Computer Science, University of Madras, Guindy Campus, Chennai – 600025

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ACHIEVEMENTS / AWARDS

1. **Coordinating MOOC course “Data Base Management Systems” in SWYAM 2.0 during Jan 2021**
2. **Coordinated MOOC course “Software Engineering” in SWYAM 2.0 during Jan 2020**
3. **Coordinated MOOC course “Data Base Management Systems” in SWYAM 2.0 during July to Dec 2019**
4. **“Best Teacher” award from Dr. M.Rajaram,I.A.S, Organized by Viveka Charitable Trust, on 30/9/2018**
5. **“Excellence in Teaching and Research”, by International Association for Science and Technical Education, on 10/10/2017**
6. **“Senior Women Educator and Scholar Award”, by National Federation of Entrepreneurship Development (NFED), on 08/03/2016**
7. **“Outstanding Scientist Award – Data Mining”, by Venus International Foundation at VIFRAM 2015 on 19/12/2015**
8. **Awarded Gold Medal for teaching proficiency by Management of GSS Jain College for Women, Vepery, Chennai, 2004**
9. **Awarded UGC- NET- JRF in 2001 for Computer Science Discipline.**

MEMBERSHIP

NATIONAL

- 1. Member Board of Studies – DG Vaishnav College, Government Arts college, Nandanam, Guru Nanak College , Chennai**
- 2. Purchase committee , 2021 – University of Madras**
- 3. Doctoral committee members - University of Madras, Vels University**
- 4. Inspection committee members – Affiliated Colleges, University of Madras.**
- 5. Subject expert SDNB -- Recruitment of Faculty**
- 6. Member Academic Audit, Sri Kanyaka Parameshwari arts & science College for Women, Chennai -1, 2019**
- 7. Subject Expert, for PG Faculty - teaching Evaluation at Mohammed Sathak College, Chennai , 2019**
- 8. Member Academic Audit, Ethiraj College for Women, Chennai, 2017**
- 9. Inspection committee member, for UG- Prof.Dhanapalan College, Chennai, 2017**
- 10. Member Academic Audit , PSGR Krishnammal college for Women, 2016**
- 11. Member Academic Audit , Patrician College of Arts and Science, Chennai, 2016**
- 12. Life Member of Computer Society of India , Delhi.**
- 13. Subject Expert Panel Member, TNPSC**
- 14. Subject Expert for Recruitment of Generalist Officers with Specialization - IT software Officers - UCO Bank during May 18 to 22 , 2006.**
- 15. Subject Expert Panel Member, Thiruvalluvar University**
- 16. Member of Panel of Question paper Setting, Anna University**
- 17. Subject Expert- Staff Recruitment Exam Question Paper Setting- Pondicherry University**
- 18. Member of Academic audit committee, 2006 , Department of Computer Science, Loyola College**
- 19. Member Of Academic Board of Studies- Dr. Ambedkar Government College**
- 20. Subject Expert - Staff recruitment - Women Christian College**
- 21. Member of Panel of Question paper Setting in various Universities like Anna University , Anna University of Technology, Sri Venkateshwara University, Thiruvalluvar University etc.**
- 22. Member of Panel of Question paper Setting in various colleges like D.G.Vaishnav , Stella Maris College.**
- 23. Member of Panel of Examiners for Practical and Theory P.G Examinations , UNOM.**
- 24. Inspection Committee member for Md. Satak College for Arts and Science , 2009**
- 25. Member of Board of Examiners for P.G Examinations , UNOM, both IDE and Regular Courses.**
- 26. Member of Board of Examiners for P.G Examinations , Anna University courses.**

- 27. Member of Panel of Question paper Setting in Sri Krishna arts and science college, Coimbatore-641008.**
- 28. Member of Board of Examiners for P.G Examinations , Ethiraj College for Women, Chennai - 8.**
- 29. Member of Panel of Examiners for Practical, P.G Examinations , Anna University, Chennai - 25.**
- 30. Member of Panel of Examiners for M.Phil Examinations 2015, Bharathidasan University, tiruchirappalli- 620023.**
- 31. Member of Panel of Examiners for Staff Selection Commission, Government of India, 2014.**
- 32. Member of Panel of Examiners for Tamil Nadu Public Service Commission, 2006 to till date.**
- 33. Camp Officer, Base Camp-IV for IDE UG Examinations , UNOM, June 2012.**

PROJECTS (TOTAL PROJECTS : 6)

1. Title : Approximation of 3D Objects
Duration : 2006-2007
Funding Agency : URSF
Amount Sanctioned : Rs. 20,000

2. Title : DST PURSE-Phase I grant
Duration : 2010-2011
Funding Agency : DST
Amount Sanctioned : Rs. 30,000

3. Title : DST PURSE-Phase II grant
Duration : 2014-2015
Funding Agency : DST
Amount Sanctioned : Rs. 30,000

4. Title : DST PURSE-Phase II grant
Duration : 2016-2017
Funding Agency : DST
Amount Sanctioned : Rs. 65,000

5. Title : DST PURSE grant
Duration : 2017-2018
Funding Agency : DST
Amount Sanctioned : Rs. 30,000

6. Title : DST RUSA
Duration : 2021 – 2023
Funding Agency : DST
Amount Sanctioned : Rs. 14,12,000

PUBLICATIONS

I. BOOKS (TOTAL BOOKS: 7)

1. **Open source development – TNOU - 2021**
2. **Web based applications development – IDE – UNOM - 2021**
3. **Cloud computing - TNOU- 2017**
4. **Internet & Java Made Easy , S.Gopinathan, B.Lavanya, PL.Chithra, M.Sornam, Internet and Java Made Easy, 1, (2006), 250.**
5. **E-Commerce , M.B.A , TNOU, year 2006 (Content Editor) - Text Book**
6. **Management Information System, B.Sc, TNOU, year 2007 (Course Reviewer) - Text Book**
7. **Computer Applications , B.Sc , TNOU, year 2006 (Course Reviewer) - Text Book**

II. JOURNALS (TOTAL JOURNALS: 39)

1. **B.Lavanya, P.Devipriya, “Pattern analysis and Knowledge discovery algorithms – Different Perspectives”, Journal of analysis and computation, vol 15, No 5, January 2021, 1-6, ISSN 0973-2861**
2. **B. Lavanya, G. Sasipriya,” A study on emerging Machine Learning trends on nanoparticles - Nanoinformatics” , 2021, Springer AISC (accepted)**
3. **B. Lavanya, U. Vageeswari,” An assortment of Query Based Summarization technique (QBS) – A Study”, 2021, Elsevier SSRN (accepted)**
4. **B.Lavanya, A.Suganya,” Implementation of Data Mining Technique with amalgamation of Artificial Intelligence in National Education System”, International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 9, Issue 6, November-December 2020, ISSN 2278-6856**
5. **N.Dhamayanthi, B.Lavanya, “Sentiment Analysis Framework for E-Commerce Reviews Using Ensemble Machine Learning Algorithms”, Springer *Springer sponsored ICICC 2020- 18-20 sep 2020*Lecture notes on Advances in Intelligent Systems and computing**
6. **B.Lavanya, A.Suganya, “A comprehensive study on Indian education system and manifestation of AI in it” International journal of multidisciplinary educational research, Vol 9, Issue 9(1),1-11, Sep 2020, ISSN: 2277-7881**
7. **B.Lavanya, Tamizh Thendral,An Innovative Synthesis Cryptic Technique for Distributed Cloud Computing” International journal of recent technology and engineering, Vol 8, Issue 3 Sep 2019, e-ISSN 2277-3878**
8. **B.Lavanya, Tamizh Thendral, “A novel data ciphering method for secure cloud storage”, IEEE Xplore, 2019 ISBN number : 978-1-7281-1575-7**

9. B.Lavanya, A.Auxilia Princy,"A Cognitive Approach for Automatic Generation of Knowledge Map with Artificial Intelligence" International journal of Scientific and Technology Research", Oct 2019 ISSN 2277-8616
10. B.Lavanya, A.Auxilia Princy,"A Nomological Design of Conceptual Framework with Deep Learning Algorithm"International journal of computer science and information security" vol 17, No 8, Aug 2019 ,ISSN 1947 5500
11. B.Lavanya, A.Auxilia Princy "A Survey on contribution of Data Mining techniques and Graph Reading Algorithms in concept map generation", Journal of Today's ideas and tomorrow's technologies, vol 6, No 2, dec 2018 , ISSN 23213906
12. B.Lavanya, D.Sathiyapriya "A study on Native methods, Algorithms and Software for varied Big data Applications", American International Journal of Research in Formal, Applied & Natural Sciences, vol 25, No 1, December 2018- feb 2019, 51-53.
13. B.Lavanya,.ThamizhThendral "A Survey on Different Varied Data Communication Cryptography Methods " AIJRSTEM , Vol-25, No -1, December 2018- Feb 2019. Pg 63-67
14. B.Lavanya, V.Janani Bai,"Analysis of Environmental Data Using Pattern Mining techniques" International Journal of Modern electrical and communication Engineering" Vol-7,No-1, January 2019 pg. 51-56
15. B.Lavanya, Madhumitha, " Analyzing Microarray Data To Identify Patterns And Cluster In Medical Database Using Data Mining Techniques" International Journal of Innovative Knowledge Concept, vol 6,No.12 , Dec- 2018
16. B.Lavanya, Madhumitha, " Higher Order Analyzes of ASD Genetic data using Prefix Span and PCA methods" International Journal for Advanced research in Computer Science, vol 9,No.5 Sep-Oct 2018
17. B.Lavanya, V.Janani Bai, "A Study on Predictive Analysis on Concept Maps using Data Mining Techniques" Intl. journal of Advanced Research in Science, Engineering and Technology,Vol. 5, Issue 10 , October 2018
18. B.Lavanya, N.Dhamayanthi, "Software defect prediction using Principle component Analysis and Naïve Bayes Algorithm", Springer series on Lecture notes on Data Engineering and communications technologies, 2018. Springer LNDECT www.springer.com/series/15362
19. B.Lavanya, Madhumitha, " A Survey on Identification of motifs and ontology in medical databases", Journal of Today's ideas and tomorrow's technologies, vol 6, No 1, June 2018, ISSN 23213906 UGC no 46157
20. B.Lavanya, N.Dhamayanthi, "Improvement in software defect prediction outcome using PCA and ensemble Machine learning algorithms", Springer series on Lecture notes on Data Engineering and communications technologies, 2018. ISSN 2367-4512.
21. Exploration and Deduction of Sensor-Based Human Activity Recognition System of Smart-Phone Data, B.Lavanya,G.S.Gayathri, IEEE Xplore, 2017, CFP1720J-ART ISBN 978-1-5090-6621-6, print CFP1720J-PRT ISBN 978-1-5090-6620-9
22. Multi-Dimensional Model Evaluation of Supervised Classification Techniques on Smart Phone Sensor-Based Human Activity Recognition System, B.Lavanya,G.S.Gayathri, American International Journal of Research in Formal,

- Applied & Natural Sciences, vol-20,No-1,Sep-Nov-2017, 7-13 [ISSN (Print): 2328-3777, ISSN (Online): 2328-3785, ISSN (CD-ROM): 2328-3793]
23. Performance Analysis of Decision Tree Algorithms on Mushroom Dataset, B.Lavanya, G.R.Preethi, International journal for Applied Science & Engg. Technology, Vol-5, Issue-XI, Nov 2017, 183-191 [ISSN 2321-9653]
 24. Study on Constrained Frequent Pattern Mining Of Streaming Data, B.Lavanya, Journal of global research in Computer Science, vol-8, No-10, Oct 2017, 20-23, [ISSN 2230-5822]
 25. Prediction and Feature Reduction using Non Parametric Data Mining Techniques, B.Lavanya, S.Divyabharathi, International Journal for Advanced research in Computer Science, Vol 8, Issue – Sep-Oct-2017, 181-185 , [ISSN 0976-5697]
 26. Predictive Analytics on Accident Data Using Rule based and Discriminative Classifiers, B.Lavanya , B.Divya, Advances in Computational Sciences and Technology (ACST), Volume 10, No.3, Jan 2017, 461-469. [print ISSN 0973-6107 , Online ISSN 0974-4738]
 27. Encapsulating Security Mechanisms On Data By Using DNA Operations”, B.Lavanya, Aafreen Nawresh, IEEE Xplore, Catalog number - CFP1620J-ART [ISBN 978-1-5090-0612-0 ©2016 IEEE]
 28. Big Data Analysis Using SVM and K-NN Data Mining Techniques, B.Lavanya , B.Divya, International Journal of Computer Science and Mobile Computing (IJCSMC), Volume 6, Issue 1, Jan 2017, 84-91. [ISSN 2320-088X]
 29. High Performance Sequence Mining of Big Data using Hadoop Mapreduce in Cloud, B.Lavanya, G.Lalitha, International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 5, Issue 4, July - Aug 2016, 113-120. [ISSN 2278-6856]
 30. Genomic sequence analysis framework with visual representation using progressive alignment algorithm, B.Lavanya, Aafreen Nawresh, IIR Journal of Soft Computing, International Journal of Web Technology, Vol.5 Issue 1, June 2016, 22-24. [ISSN 2278-2389]
 31. A novel approach to find closed repetitive gapped subsequences from multiple sequences using DNA operations, B.Lavanya, A.Murugan, International Journal of Applied Engineering Research, Vol. 10 No.76 (2015) ,402-407, [ISSN 0973-4562]
 32. Multidimensional Longest Increasing Subsequence and its variants discovery using DNA Operations, B.Lavanya, A.Murugan, Springer, LNAI 8284, (2013), 444–452, [ISBN 978-3-319-03843-8 e-ISBN 978-3-319-03844-5]
 33. Multidimensional Longest Common Subsequence discovery from Large Databases using DNA Operations, B.Lavanya, A.Murugan, International Journal of Engineering and Technology, vol-5, no-2,, (2013), 1153-1160, [e-ISSN : 0975-4024 p-ISSN : 2319-8613]
 34. Discovery of Longest Increasing Subsequences and its variants using DNA operations, B.Lavanya, A.Murugan, International Journal of Engineering and Technology, vol-5, no-2,, (2013), 1169-1177. [e-ISSN : 0975-4024 p-ISSN : 2319-8613]
 35. Mining Longest Common Subsequence and other related patterns using DNA Operations, B.Lavanya, A.Murugan, International Journal of Computer Applications, vol-49, no-18, (2012), 38-44, [ISSN No:0975 – 8887/ (0.835)

36. Discovering sequence motifs of different patterns parallelly using DNA operations, B.Lavanya, A.Murugan, *International Journal of Computer Applications*, vol-33,no-1, (2011), 18-24, [ISSN No:0975 – 8887]
37. A DNA based approach to find closed repetitive gapped subsequences from a sequence data base, B.Lavanya, A.Murugan, *International Journal of Computer Applications*, vol-29,no-5, (2011), 45-49, [ISSN No:0975 – 8887]
38. A novel programming approach for DNA computing, A.Murugan, B.Lavanya, K.Shymala, *International journal of Computational Intelligence Research*, 7, (2011), 199-209, [ISSN:0974-1259]
39. A DNA algorithmic approach to solve GCS computing, A.Murugan, B.Lavanya, *Journal of Computational Intelligence in Bioinformatics*, 3, (2010), 239-247, [ISSN No: 0973-385X]

III. CONFERENCE PROCEEDING [17]

1. B. Lavanya, G. Sasipriya,” A study on emerging Machine Learning trends on nanoparticles - Nanoinformatics” in 4TH International conference on innovative computing and communication (ICICC) 2021, Springer AISC
2. B. Lavanya, U. Vageeswari,” An assortment of Query Based Summarization technique (QBS) – A Study” in 4TH International conference on innovative computing and communication (ICICC) 2021, Elsevier SSRN
3. N.Dhamayanthi, B.Lavanya, “Sentiment Analysis Framework for E-Commerce Reviews Using Ensemble Machine Learning Algorithms”, Springer *Springer sponsored ICICC 2020- 18-20 sep 2020*Lecture notes on Advances in Intelligent Systems and computing
4. B.Lavanya, Tamizh Thendral, “A novel data ciphering method for secure cloud storage”, IEEE sponsored International carnahan conference on Security technology during Oct1-3, 2019, organized by Anna University, Chennai. Part Number : CFP19ICR-DVDISBN number : 978-1-7281-1575-7
5. B.Lavanya, N.Dhamayanthi, “Software defect prediction using Principle Component Analysis and Naïve Bayes Algorithm”, Springer International Conference on computational Intelligence and data engineering, ICCIDE 2018, during Sep 28 and 29, organized by Vignan foundation of science , technology and research, Guntur.
6. B.Lavanya, N.Dhamayanthi, “Improvement in software defect prediction outcome using PCA and ensemble Machine learning algorithms”, Springer Sponsored International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI-2018) 07-08 August 2018 . ISSN 2367-4512.[Best paper Award]
7. B.Lavanya, S.Divyabarathi, ”A Systematic Analysis on Performance Measures and Prediction using Supervised Classification Techniques”, International Conference on Recent Innovations in Computational Science, Hindustan College of Arts and Science, Chennai-103, during Sep 20-21, 2017. [ISBN 978-81-8209-432-1]

8. B.Lavanya, S.Divyabarathi, "Study on Intruder detection system using data mining", International Conference on cyber criminology, digital forensics and Information security, DRBCC Hindu College, Chennai-72, during February 17-18, 2017. [ISBN 978-93-81992-58-6]
9. B.Lavanya,G.S.Gayathri,"Study on theoretical analysis of dimensionality reduction using data mining", International Conference on cyber criminology, digital forensics and Information security, DRBCC Hindu College, Chennai-72, during February 17-18, 2017. [ISBN 978-93-81992-58-6]
10. B.Lavanya, Aafreen Nawresh,"Encapsulating Security Mechanisms On Data By Using DNA Operations",IEEE International Conference on Computational Intelligence and Computing Research, Agni College of Technology, Chennai during December 15-17, 2016 [ISBN 978-1-5090-0612-0/16 ©2016 IEEE][Best paper Award]
11. B.Lavanya , B.Divya "Predictive Analysis of Aircraft Accident Data Using SVM and DT" , The Second International Conference on Emerging Trends in Engineering Research (ICETER'16), Vels University, Chennai during Oct 20-21, 2016, [ISBN 978-93-84893996]
12. B.Lavanya, Aafreen Nawresh, "A Pictorial Framework for Cancer Sequences Analysis", International Conference on Recent Trends in Computing Technology, Organized by Department of Computer Science (IDE), University of Madras, Chennai during 22nd and 23rd February 2016 [ISBN978-81-923741-3-0]
13. B.Lavanya, Aafreen Nawresh, " A study on Techniques used in digital forensics for data reduction in cloud", National Conference in New Horizons in Computational Intelligence and Information systems, conducted by Department of Computer Science and Applications, The Gandhigram Rural Institute, Gandhigram- 624302, Dindigul, TN during 17th and 18th December 2015, 219-221[ISBN-978-93-85777-02-8]
14. B.Lavanya, G.Lalitha, " A study of usage of Map Reduce for text compression in cloud computing", National Conference in New Horizons in Computational Intelligence and Information systems, conducted by Department of Computer Science and Applications, The Gandhigram Rural Institute, Gandhigram- 624302, Dindigul, TN during 17th and 18th December 2015,222-224[ISBN-978-93-85777-02-8]
15. B.Lavanya , B.Divya "A Study on Aircraft Accident prediction using Data Mining Techniques" , International Conference on recent trends in computer Science and Digital Technology [ICCSDT- 5], organized by GSSJain College, Chennai – 7 and ICT Academy of Tamil Nadu , 26 Nov 2015, 27-29[ISBN 978-93-8564]
16. B.Lavanya, A.Murugan, "A novel approach to find closed repetitive gapped subsequences from multiple sequences using DNA operations", A two day National Conference on Recent Trends in Intelligent Systems, during 12th and 13th March 2015, 26, Organised by Department of Computer Science, University of Madras, Chennai -5 [ISBN 978-93-80366-19-7]

17. B.Lavanya, A.Murugan, “Multidimensional Longest Increasing Subsequence and its variants discovery using DNA Operations”, International Conference on Mining Intelligence and Knowledge Exploration, 2013, held during December 18-20, 2013, 32, at the Research Center in Computer Science, VHNSN College (Autonomous), Virudhunagar, Tamil Nadu, India. [ISBN 978-81-8424-897-5]

SEMINAR / CONFERENCE / WORKSHOP

International Conference Presentations [14]

1. B. Lavanya, G. Sasipriya, “A study on emerging Machine Learning trends on nanoparticles - Nanoinformatics” in 4TH International conference on innovative computing and communication (ICICC) 2021, Springer AISC organized by Univ. of Delhi, NIT Patna and Univ. of Valladolid Spain, during Feb 20-21 2021
2. B. Lavanya, U. Vageeswari, “An assortment of Query Based Summarization technique (QBS) – A Study” in 4TH International conference on innovative computing and communication (ICICC) 2021, Elsevier SSRN organized by Univ. of Delhi, NIT Patna and Univ. of Valladolid Spain, during Feb 20-21 2021
3. B.Lavanya, Tamizh Thendral, “A novel data ciphering method for secure cloud storage”, IEEE sponsored International carnahan conference on Security technology during Oct1-3, 2019, organized by Anna University, Chennai.
4. B.Lavanya, N.Dhamayanthi, “Software defect prediction using Principle Component Analysis and Naïve Bayes Algorithm”, Springer International Conference on computational Intelligence and data engineering, ICCIDE 2018, during Sep 28 and 29, organized by Vignan foundation of science , technology and research, Guntur.
5. B.Lavanya, N.Dhamayanthi, “Improvement in software defect prediction outcome using PCA and ensemble Machine learning algorithms”, Springer International conference on Intelligent data communication technologies and Internet of things, Coimbatore. ICICI 2018, during Aug 7-8 2018.(Best Paper Award)
6. B.Lavanya, S.Divyabarathi, ”A Systematic Analysis on Performance Measures and Prediction using Supervised Classification Techniques”, International Conference on Recent Innovations in Computational Science, Hindustan College of Arts and Science, Chennai-103, during Sep 20-21, 2017. [ISBN 978-81-8209-432-1]
7. B.Lavanya, G.S.Gayathri, ”Study on theoretical analysis of dimensionality reduction using data mining”, International Conference on cyber criminology, digital forensics and Information security, DRBCC Hindu College, Chennai-72, during February 17-18, 2017. [ISBN 978-93-81992-58-6]
8. B.Lavanya, S.Divyabarathi, ”Study on Intruder detection system using data mining”, International Conference on cyber criminology, digital forensics and Information security, DRBCC Hindu College, Chennai-72, during February 17-18, 2017. [ISBN 978-93-81992-58-6]

9. B.Lavanya, Preethi, “A study on constrained based data stream mining”, International Conference on Recent Advances in Engineering & Technology” ICREAT-2017, M.A.M.School of Engineering,Trichirapalli, during February 6-7, 2017
10. B.Lavanya, AafreenNawresh,”Encapsulating Security Mechanisms On Data By Using DNA Operations”,IEEE International Conference on Computational Intelligence and Computing Research, Agni College of Technology, Chennai during December 15-17, 2016 [ISBN 978-1-5090-0612-0/16©2016 IEEE][awarded Best paper presented]
11. B.Lavanya , B.Divya “Predictive Analysis of Aircraft Accident Data Using SVM and DT” , The Second International Conference on Emerging Trends in Engineering Research (ICETER’16), Vels University, Chennai during Oct 20-21, 2016 [ISBN 978-93-84893996]
12. B.Lavanya, AafreenNawresh, “A Pictorial Framework for Cancer Sequences Analysis”, International Conference on Recent Trends in Computing Technology, Organized by Department of Computer Science (IDE), University of Madras, Chennai during 22nd and 23rd February 2016 [ISBN978-81-923741-3-0]
13. B.Lavanya , B.Divya “A Study on Aircraft Accident prediction using Data Mining Techniques” , Intl. Conference on recent trends in computer Science and Digital Technology [ICCSDT- 5], organized by GSS Jain College, Chennai – 7 and ICT Academy of Tamil Nadu , 26 Nov 2015. [ISBN 978-93-8564]
14. B.Lavanya, A.Murugan, “Multidimensional Longest Increasing Subsequence and its variants discovery using DNA Operations”, International Conference on Mining Intelligence and Knowledge Exploration, 2013,held during December 18-20, 2013 at theResearch Center inComputer Science, VHNSN College(Autonomous), Virudhunagar, Tamil Nadu, India. [ISBN 978-81-8424-897-5]

National Conference Presentations[3]

1. B.Lavanya, AafreenNawresh, “ A study on Techniques used in digital forensics for data reduction in cloud”, National Conference in New Horizons in Computational Intelligence and Information systems, conducted by Department of Computer Science and Applications, The Gandhigram Rural Institute, Gandhigram- 624302, Dindigul, TN during 17th and 18th December 2015. [ISBN-978-93-85777-02-8]
2. B.Lavanya, G.Lalitha, “ A study of usage of Map Reduce for text compression in cloud computing”, National Conference in New Horizons in Computational Intelligence and Information systems, conducted by Department of Computer Science and Applications, The Gandhigram Rural Institute, Gandhigram- 624302, Dindigul, TN during 17th and 18th December 2015. [ISBN-978-93-85777-02-8]
3. B.Lavanya, A.Murugan, “ A novel approach to find closed repetitive gapped subsequences from multiple sequences using DNA operations”, A two day National

Conference on Recent Trends in Intelligent Systems, during 12th and 13th March 2015, Organised by Department of Computer Science, University of Madras, Chennai -5.[ISBN 978-93-80366-19-7]

Workshops/Conference Organizations[11]

- 1. Coordinated 15 days Refresher course on Computer Science and Inforamtion Technology Batch X from 28th Jan 2021 to 8th Feb 2021**
- 2. Convener for two days short term course on Big Data and its applications organized by UGC HRDC University of Madras , Chennai – Aug 2020**
- 3. Co-convenor, Two days National Level Worshop on “Deep learning Using Tensor Flow with Python” March 01 and 02 2019, Organized by Department of Computer Science, University of Madras.**
- 4. Technical program committee member for The 8th Annual International Conference on ICT: Big Data, Cloud and Security (ICT-BDCS 2017), Singapore**
- 5. Technical program committee member for CSIR and ICMR Sponsored IEEE Third International Conference on Sensing, Signal Processing and Security (ICSSS 2017).**
- 6. Advisory Committee member for National Conference in Recent trends in computer science, applications and engineering (NCRTCAE -17), 3rd March 2017 organized by Department of Computer science, Thiruvalluvar University Constituent College, Arakkonam.**
- 7. Technical Advisory Committee member for International Conference on Recent Trends in Computing Technology (ICRTCT) 22 and 23-FEB-2016, organized by Department of computer Science, IDE, UNOM**
- 8. Coordinated a 50 hrs coaching class for UGC-NET Paper II and III Computer Science paper during 07/11/2015 to 22/11/2015 organized by USAB, UNOM.**
- 9. Joint Secretary for DST-PURSE Sponsored two day National Conference on Recent Trends in Intelligent Systems, during 12th and 13th March 2015, Organised by Department of Computer Science, University of Madras, Chennai -5.[ISBN 978-93-80366-19-7]**
- 10. Organizing Committee member for National Level Workshop on “Image Analysis and Application” by Department of Computer Science, UNOM, Chennai – 5, on 30 JAN 2014.**
- 11. Peer Review Team Member for State Level Seminar on Data Mining-Applications and Trends conducted on 02/02/2013 organised by Valliammal College For Women, Chennai -102**

INVITED TALK [27]

- 1. Resource Person for National Webinar on “MOOC- EOI Preparation” Organized by Web based Learning Centre , University of Madras, Chennai – Mar 2021**

2. **Resource Person for five days short term course on “MOOC - EOI preparation” Organized by UGC HRDC University of Madras , Chennai – Dec 2020**
3. **Resource Person for National Webinar on “Data Analysis using MS Excel” Organized by Law University , Chennai – Oct 2020**
4. **Resource Person for two days short term course on “Big data and its applications” Organized by UGC HRDC University of Madras , Chennai – Aug 2020**
5. **Resource Person for National Webinar on “AI in Big data” Organized by UGC HRDC University of Madras , Chennai – Sep 2020**
6. **Resource Person for Invited talk on “Preparation for MOOC proposals” at Madras School of social work , Chennai – Sep 2019**
7. **Resource Person for National Conference on “ Data science and its applications” at Adiparasakthi College of Arts and Science, Kalavai, Vellore- Aug 2019, delivered special lecture on “Machine Learning Technologies in Data Science”**
8. **Resource person for two-days FDP on “Research document writing and Google Docs” at alpha Arts and Science college, Chennai, Jun 13&14 2019.**
9. **Resource person for Refresher Course on “Computer Science and Applications”- 2 sessions- organized by UGC-HRDC, University of Madras, Chennai, Nov 2018.**
10. **Resource person for One day FDP on ”document writing using LaTeX”, at CTTE College, Chennai, Aug 20, 2018.**
11. **Resource person for One day FDP on ”Research Article Writing using LaTeX”, at Anna Adarsh College for Women, Chennai, Aug 27, 2018.**
12. **Resource person for One day FDP on”Professional article writing using LaTeX”, at Sri KanyagaParameswari Arts and Science College, Chennai, July 13, 2018.**
13. **Resource person for One day FDP on”Research documentation using LaTeX”, at MOP vaishnav College, Chennai, Feb 02, 2018.**
14. **Special Lecture on “Big data Analytics-its application to Bioinformatics” at KarpagaVinayaga Engineering College, Aug 10,2017**
15. **Resource person for One day FDP on”Technical Writing using LaTeX”, at Women’s Christian College, Chennai, Feb 18, 2017.**
16. **Resource person for one day workshop on “Improving research documentation with Latex” at Dr.Ambedkar Government Art and Science College, Chennai, Feb 20, 2017.**
17. **Resource person for various Orientation and Refresher courses conducted by ASC,UNOM, from 2005 to 2015.**
18. **Seminar on "Advance Database Concepts" at Arignar Anna Institute of Management Studies and Computer Applications, 2007.**

19. Resource person at Pan African e-Network Project for M.Sc Computer Science, from 2010 to 2016.

KEY NOTE ADDRESS

Delivered key note address on "Importance of computing" at Maharishi Vidhy Mandir School on Computer Association anniversary celebration,2007.

CHIEF GUEST ADDRESS

1. National Conference on “ Data science and its applications” at Adiparasakthi College of Arts and Science, Kalavai, Vellore- Aug 2019
2. “MGC Cyber” at Mar Gregorious College of Arts and Science, Mogappair, Aug 2019
3. National Conference on Federated Computing in Information reality and Mathematical Sciences at AnnaiVeilankanni’s College for Women, Chennai – 15,Sep 2017
4. Three days Seminar and Worshop on Big data and its applications in Bioinformatics at KarpagaVinayaga Engineering College, Aug 2017
5. One day Seminar at SSKV college of Arts and Science, Kanchipuram - 2016
6. One day National Seminar at CTTE College for Women, Sembium, 2016 ,Chennai
7. One day National Seminar at Kanchi Shri Krishna college of Arts and Science, 2010, Kanchipuram

NATIONAL LEVEL PARTICIPATION

1. Webinars, workshops, short term courses
2. Attended a workshop on “Outcome based Education” organized by Bharathi Women’s College, Chennai on Aug 22, 2019.
3. Attended an one week short term course on “Data science with python programming” organized by IIT guhawati and Krishna College Kanchipuram during Jan 28 to Feb 1 2019.
4. Attended an One Week short term Course on “MOOC e-content development” organized by UGC-HRDC, University of Madras ,during Oct 11 to 17 2018.
5. Attended 3 days National level Workshop on Research Methodology, Statistical Data Analysis and Interpretation by using SPSS & AMOS organized by ISAR &Microstar from 18/8/2017 to 20/8/2017.
6. Participated in National level Capacity Building workshop on Big Data Analytics, organized by Department of Computer Science, Institute of Distance Education, University of Madras, on Dec 19 2016.

7. Attended “Refresher Course in Computer Science” conducted by UGC and Academic Staff College ,University of Madras, from 06/11/2014 to 26/11/2014.
8. National Seminar on “Emerging Trends in Information Technology”, organized by Dr.MGR Janaki College of Arts and Science for Women, held on 11th and 12th SEP 2014.
9. Two days CSIR sponsored National Level workshop on “Big Data Analytics” at Dr.Ambedkar Government Arts College, Chennai – 39, during 19th and 20th SEP 2014.
10. National Level Workshop on “Image Analysis and Application” by Department of Computer Science, UNOM, Chennai – 5, on 30 JAN 2014.
11. National Conference on Advances in Computing and Technology held on 15th March, 2013 at VIT-Chennai.
12. Participated in National Level Capacity Building Workshop on Artificial Neural Network, held on 22nd February 2013, organized by Department of computer Science, University of Madras, Chennai – 5
13. Attended “Faculty Development Programme” on Creativity and Innovations in teaching, on 12 March 2016 at Eswari Engineering College, Chennai.
14. Participated in Skill based Training program on Essentials of .NET, organized by ICT Academy of Tamil Nadu, during 01 to 02 Nov. 2010
15. A short term course for Researchers to prepare Research Projects (Minor/Major) conducted by UGC-ASC, UNOM during 08 to 12 Mar. 2010
16. Skill based Training program on J2EE and Best Practices in Application Development, organized by ICT Academy of Tamil Nadu and CTS, during 19 to 20 Nov. 2009
17. Workshop on Globus Toolkit and Research Directions in Computational Grids, conducted by SSN College of engineering during 17-19 Sep. 2009.
18. Participated in Convention on Testing and Evaluation, conducted by National Testing Service – India, during 07 to 08 May 2009.
19. Attended “Refresher Course on Information Technology” conducted by UGC and Academic Staff College ,University of Madras, from 06/08/2008 to 26/08/2008
20. Workshop on UGC-Infonet Digital Library Consortium, conducted by UNOM and INFLIBNET Centre, during 29 to 20 Sep. 2008
21. Seminar on Retail Marketing – Challenges and Opportunities, conducted by UGC and UNOM, on 18 Feb. 2008
22. Workshop on Statistical Data Mining, organized by Dept. of Statistics, UNOM, during 21 to 22 Nov. 2008
23. Attended a training programme on Creation of Web pages using HTML conducted by Anna Institute of Management during 26 to 28 Sep. 2007
24. Conference on “Trends & Challenges in Research areas on Computer Science “ , conducted by Dept of Computer science, Presidency College on 15/2/2007 & 16/2/2007.
25. Science Seminar on Basic Sciences: Scope and Hope , organized by UNOM on 23 Aug. 2007.

26. Workshop on “Principled vision on effective management”, organized by ISHRAE, Chennai chapter on 23/6/07.
27. Attended “Orientation Course on Information Technology- Batch 74” conducted by UGC and Academic Staff College ,University of Madras, from 1/2/2006 to 28/2/2006.
28. Seminar on “Structure , Governance & Quality enhancement in Higher Education” , conducted by IQAC & Dept of Geography , University of Madras, on 25/8/2006 & 26/8/2006
29. Attended a National Symposium on “Mathematical methods & Applications” conducted by IIT Madras on 22/12/05.
30. Attended a Workshop on “Research Methodology” conducted by Dept of Christian Studies , University of Madras on 1/12/2005 & 2/12/2005.
31. Seminar on “Grid Computing” by Rajkumar Buyya , conducted by Anna University and CSI on 27/8/2005.
32. Workshop on “Proposal Writing” conducted by University of Madras on 18/6/2005.
33. Symposium on “Mathematical methods & Applications” conducted by IIT Madras on 22/12/05.
34. Workshop on “Research Methodology” conducted by University of Madras on 1/12/2005 & 2/12/2005.

INTERNATIONAL LEVEL PARTICIPATION

1. International Seminar on Recent Trends in Environmental Sciences Issues and Remedies, Organized by Centre for Environmental Sciences, UNOM on 10th March 2017
2. International Seminar on Religion and Gender: Interpreting the Interface, organized by UCIR, UNOM, Chennai – 5 on 12th Dec 2014.
3. IEEE International Conference on ICSIP conducted by BVB College of Engineering ,HUBLI , on 7/12/2006 to 9/12/2006.