# Dr. A. ALOYSIUS., *M.Sc., M.Phil., PGDMCH.,SET.,Ph.D*

Assistant Professor in Computer Science,
St. Joseph's College (Autonomous),
Tiruchirapalli – 620002, TN, India

Email: aloysius1972@gmail.com
Mobile: +919443399227

## Experience

1. **Teaching Experience**                : **18 years**
   i. Teaching UG (B.Sc), PG (MCA, M.Sc.) and M.Phil
   ii. Courses handled are core computer courses, management courses, programming language courses.

2. **Research Experience:**

| | | |
|---|---|---|
| Specialization | : | Software Metrics, Big data, Cloud Computing |
| Total number of Papers published | **:** | **52** |
| International Journals | : | 35 |
| International Conferences | : | 13 |
| National Papers | : | 4 |
| Book Chapters Contributed | : | 1 |
| Research Projects (UGC) | : | 1 |

## Educational Qualifications

| Year of Study | Course | Institution | Class |
|---|---|---|---|
| 1989 - 1990 | HSSLC | Sir Sivaswamy Higher Secondary School Thirukkattuppalli | First |
| 1990 - 1993 | **B.Sc.** Computer Science | St. Joseph's College (Autonomous), Tiruchirappalli | First |
| 1994 – 1996 | **M.Sc.** Computer Science | St. Joseph's College (Autonomous), Tiruchirappalli | First |
| 2003 – 2004 | **M.Phil.** Computer Science | Bharathidasan University, Tiruchirappalli | Second |
| 1993 – 1994 | **PGDMCH** | St. Joseph's College (Autonomous), Tiruchirappalli | First |
| June - 2013 | **Ph. D.** Computer Science, | St. Joseph's College (Autonomous), Tiruchirappalli (Bharathidasan University, Tiruchirappalli) | |
| 2012 | **SET** | State Eligibility Test (SET) for Lectureship Bharathiar University | |

## Other Certificate Courses

| Name | Organization | Place | Month & Year Completion |
|---|---|---|---|
| Theory of Concurrent System | IARCS | Trichy | August 2004 |
| Environmental Science | Bharathidasan University | Trichy | October 2003 |
| The Leadership Programme on Nature Conservation and Eco-Development | Anglade Institute of Natural History | Sembaganur, Kodaikanal | February 2004 |

## Employment Details

| | | |
|---|---|---|
| **Designation** | : | Assistant Professor |
| **Date of Appointment** | : | June 2000 |
| **Department** | : | Computer Science |
| **Present Employer** | : | St. Joseph's College (Autonomous) (Nationally re-accredited with A grade 3rd Phase) (College with Potential for Excellence) Tiruchirappalli – 620 002 Tamil Nadu, India. |
| **Phone** | : | 91-431-4226392 / 4226409 |

## Personal Details

| | | |
|---|---|---|
| **Age & Date of Birth** | : | 41 years, 01-07-1972 |
| **Gender** | : | Male |
| **Marital Status** | : | Married |
| **Religion** | : | Roman Catholic |
| **Residential Address** | : | 1/127, Middle Street, Michaelpatti post, Tanjore Dist. Pin – 613104 |
| **Mobile** | : | +919443399227 |

## Papers Published

**International Journals**

1. A. Aloysisus and L. Arockiam, On Validating Class Level Cognitive Complexity Metrics, International Journal of Software Engineering and Technology, Print: ISSN 0974-9748 & Online: ISSN 0974-9632, DOI: SE032010003, March 2010. (**IF:0.261**).

2. A. Aloysisus and L. Arockiam, A Survey on Metrics of Software Cognitive Complexity for OO Design, World Academy of Science, Engineering and Technology - special issue on International Conference on Computational Intelligence and Cognitive Informatics, 2011, Vol. 58, ISSN: 2070-3740, pp. 765-769.

3. A. Aloysisus and L. Arockiam, Attribute Weighted Class Complexity: A New Metric For Measuring Cognitive Complexity Of OO Systems, World Academy of Science, Engineering and Technology – special issue on International Conference on Computational Intelligence and Cognitive Informatics, 2011, Volume 58, pp. 808-813, ISSN:2070-3740.

4. A. Aloysisus and L. Arockiam, An Analysis of Dependency between Personality Traits and Debugging Ability in Component Based System, International Journal of Software Engineering and Technology, July 2011, Print: ISSN 0974-9748 & Online: ISSN 0974-9632.

5. A. Aloysisus and L. Arockiam, An Investigation into the Relationship between Intelligence Quotient and Debugging Ability of Component Based System, International Journal of Software Engineering and Technology, July 2011, Print: ISSN 0974-9748 & Online: ISSN 0974- 9632.

6. A. Aloysisus and L. Arockiam, Cognitive Weighted Response For a Class: A New Metric for Measuring Cognitive Complexity of OO Systems, International Journal of Advanced Research in Computer Science,July- 2012, Vol. 3, No. 4.

7. A. Aloysisus and L. Arockiam, Coupling Complexity Metric: A Cognitive Approach, International Journal of Information Technology and Computer Science, August-2012, Vol. 4, No. 9, pp. 29-35, ISSN: 2074-9007 (Print), ISSN: 2074-9015 (Online).

8. A. Aloysisus and L. Arockiam, "Maintenance Effort Prediction Model Using Cognitive Complexity Metrics", International Journal of Advanced Research in Computer Science and Software Engineering, November 2013 Volume 3, Issue 11, ISSN: 2277 128X.

9. A. Aloysisus, L. Arockiam, and Herbert Raj, "COGNITIVE COMPLEXITY METRICS ANALYSIS TOOL (CCMAT)", International Journal of Emerging Trends in Computing and Communication Technology, February 2014 ,Volume 1, No 1, ISSN 2348 4454.

10. A. Aloysisus and K. Maheswaran, "A Review on Component Based Software Metrics ", International Journal of Fuzzy Mathematical Archive, January 2015, Vol. 7, No. 2, 2015, 185-194, ISSN: 2320 –3242 (P), 2320 –3250 (online).

11. A. Aloysius, L. Arockiam, A. Cecil Donald, and M. Regin, "A Survey on User Authentication Mechanism in Mobile Cloud Computing", International Journal of Emerging Trends in Computing and Communication Technology, August 2015, Volume 1, No 3, ISSN: 2348 4454.

12. A. Aloysius, L. Arockiam, A. Cecil Donald, and M. Regin, "Dynamic Key Based User Authentication (DKBUA) Framework for MobiCloud Environment", International Journal of Computer and Communication System Engineering (IJCCSE), Vol. 2 (5), October-2015, 671-675, ISSN: 2312-7694.

13. A. Aloysius, and Francis Thamburaj, "Cognitive Weighted Method Hiding Factor Complexity Metric", International Journal of Computer Science and Software Engineering (IJCSSE), Volume 4, Issue 10, October 2015, ISSN (Online): 2409-4285 www.IJCSSE.org Page: 272-279.

14. A. Aloysius, and Francis Thamburaj, "Cognitive Perspective Of Attribute Hiding Factor Complexity Metric", International Journal Of Engineering And Computer Science, Nov 2015, ISSN: 2319-7242 Volume 4 Issue 11, Page No. 14973-14979.

15. A. Aloysius, and Francis Thamburaj, "Cognitive Weighted Polymorphism Factor: A New Cognitive Complexity Metric", International Journal of Computer and Information Engineering Vol:2, No:11, 2015.

16. A. Aloysius, and Francis Thamburaj, "Cognitive Weighted Polymorphism Factor: A Comprehension Augmented Complexity Metric", International Journal of Computer, Electrical, Automation, Control and Information Engineering Vol:9, No:11, 2015, waset.org/Publication/10002880.

17. A. Aloysius, and G.Arockia Sahaya Sheela, "Aspect Oriented Programming Metrics – A Survey", International Journal of Emerging Trends in Computing and Communication Technology, Volume 1, No 3, August 2015, ISSN: 2348 4454.

18. A. Aloysius, and G.Arockia Sahaya Sheela, K. R. Martin, "Analysis of Measuring the Complexity of Advice using a Cognitive Approach", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.82 (2015).

19. A. Aloysius, and Francis Thamburaj, "Validation of Cognitive Weighted Method Hiding Factor Complexity Metric", International Journal of Applied Engineering Research, 0973-4562 Vol. 10, No.82, 2015, pp 91-96.

20. M. Edison, A.Aloysius "Concepts and Methods of Sentiment Analysis on Big Data", International Journal of Innovative Research in Science, Engineering and Technology, (Online):2319-8753, (Print) : 2347-6710, Vol. 5, Issue 9, September 2016.

21. A. Aloysius, and Francis Thamburaj, "Models for Maintenance Effort Prediction with Object-Oriented Cognitive Complexity Metrics" World Congress on Computing and Communication Technologies-IEEE Xplore. PP: 191-194, Dec.2016.

22. A. Aloysius, and G.Arockia Sahaya Sheela, "Design And Analysis Of Aspect Oriented Metric Cwcoar Using Cognitive Approach", World Congress on Computing and Communication Technologies-IEEE Xplore. PP: 195-197, Dec.2016

23. S.Banumathi, A.Aloysius, "Big Data Prediction Using Evolutionary Techniques: A Survey" Journal of Emerging Technologies and Innovative Research (JETIR), ISSN-2349-5162, Volume 3, Issue 9, September 2016. Jan. 2017, 19928-19931

24. M. Edison, A.Aloysius, "Sentiment Analysis using Mode Measure", International Journal Of Engineering And Computer Science, 2319-7242, Volume 6 Issue 1, PP: 19928-19931, Jan. 2017.

25. Mr.A.Antony Prakash1, Dr. A.Aloysius, "Survey of MapReduce on Big Data", International Journal Of Engineering And Computer Science, ISSN:2319-7242, Volume 6 Issue 3, March 2017, Page No. 20662-20666.

26. M. Edison, A. Flora, D. Vinnarasi Dr. A. Aloysius, "Sentiment Analysis: A Review", International Journal of Engineering Technology and Computer Research (IJETCR), 2348 – 2117, Vol 5, pp: 26-30, July 2017 (UGC)

27. T. Francis Thamburaj, Dr. A. Aloysius, "An Analysis of Object Oriented Complexity Metrics", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, 2456-3307, volume 2, PP: 757-765 August2017 (UGC)

28. K. Maheswaran, Dr. A. Aloysius, "A Heuristics on Interface Complexity", International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), 2278 – 1323, Volume 6 PP: 1283-128, August 2017(UGC).

29. M. Edison, Dr. A. Aloysius, "Lexicon based Acronyms and Emoticons Classification of Sentiment Analysis (SA) on Big Data", International Journal of Database Theory and Application, 2005-4270, Volume 10, pp:41-54, September 2017 (UGC)

30. M. Edison, Dr. A. Aloysius, "Polarity Detection of Lexicon based Sentiment Analysis with Negation Handling", Journal of Advanced Research in Dynamical & Control Systems,1943-023x, Volume 13, pp:44-54, 2017 (UGC).

31. M. Edison, Dr. A. Aloysius, "Pre-Processing Concepts and Techniques for Sentiment Analysis", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, 2456-3307, Volume 2, pp:141-144, September 2017 (UGC).

32. P. Bastin Thiyagaraj,Dr. A. Aloysius, "A SURVEY ON TRUTH DISCOVERY METHODS FOR BIG DATA", International Journal of Engineering Technology and Computer Research (IJETCR), 2348 – 2117, Volume 5, pp: 183-189, May 2017 ( UGC)

33. S. Banumathi, Dr. A. Aloysius, "PREDICTIVE ANALYTICS CONCEPTS IN BIG DATA- A SURVEY", International Journal of Advanced Research in Computer Science, 0976- 5697, Volume 8, pp:01-04, September 2017(UGC).

34. S. Banumathi, Dr. A. Aloysius, "Social Network Prediction Measurement in Education", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, 2456-3307, Volume 2, pp: 458-461, September 2017 (UGC)

35. S. Banumathi, A. Aloysius, M. Sowndarya, "USAGE AND IMPACT OF SOCIAL MEDIA IN STUDENT'S EDUCATION", International Journal of Creative Research Thoughts, Volume 5, Issue 3, , ISSN: 2320-2882,pp:146-48 September 2017(UGC).

## International Conferences

1. A. Aloysisus and L. Arockiam, Using Gender Differences to Link Intelligent Quotient and Program Debugging of Object Oriented Systems, Proceedings of National Conference on Software Engineering and Applications, Tirupattur, December 2008.

2. A. Aloysisus and L. Arockiam, An Investigation into the Relationship between Personality traits and Recollection & Retention ability in object oriented Systems, Proceedings of International Conference on Advanced Computing (ICAC), Tamil Nadu, India, August 2009, ISBN10 0230-63915-1, ISBN13 978-0230-63915-7.

3. A. Aloysisus and L. Arockiam, A Comparison of Proposed Cognitive weights for control structures and object oriented programming languages, Proceedings of International Conference on Advanced Computing (ICAC), Tamil Nadu, India, August 2009, ISBN10 0230-63915-1, ISBN13 978-0230-63915-7.

4. A. Aloysisus and L. Arockiam, A study on the impact of Style elements in Recollection & Retention of Object oriented System, Proceedings of International Conference on Semantic E-business and Enterprise computing (SEEC 2009), Tamilnadu, India, ISBN 978–81-907337-0-0.

5. A. Aloysisus and L. Arockiam, Extended Weighted Class Complexity: A new of software complexity for objected oriented systems, Proceedings of International Conference on Semantic E-business and Enterprise computing SEEC 2009, Tamilnadu, India, pp. 77-80.

6. A. Aloysisus and L. Arockiam, A Comparison of Proposed Cognitive weights for control structures and object oriented programming languages, Proceedings of International Conference on Advanced Computing, 2009, pp. 380-385.

7. A. Aloysisus and L. Arockiam, A Survey on the Complexity Metrics for Component Based System, Proceeding of National Conference on Computer Science and Engineering (NCCSE-2010), Periyakulam, Tamilnadu, India, February 2010.

8. A. Aloysisus and L. Arockiam, An Investigation into the impact of OO Design on Program Comprehension with individual and Collaborative Approach, Proceeding of National

Conference on Emerging Trends in Advance Computing, Tamilnadu, India, May 2010.

9. A. Aloysisus and L. Arockiam, A Study on Impact of Emotional Quotient on Program Comprehension, Proceedings of International Conference on Communication and Computational Intelligence, Erode, India, December 2010.

10. A. Aloysisus and L. Arockiam, Attribute Weighted Class Complexity: A New Metric For Measuring Cognitive Complexity Of OO Systems, Proceedings of International Conference on Computational Intelligence and Cognitive Informatics, Indonesia, October 2011, ISSN 2010-3778, pp. 808- 813.

11. A. Aloysisus and L. Arockiam, A Survey on Metrics of Software Cognitive Complexity for OO Design, Proceedings of International Conference on Computational Intelligence and Cognitive Informatics, 2011. ISSN 2010-3778, pp. 765-769.

12. A. Aloysius and S. Banumathi "Statistical Analysis on Social media Usage in Students Education" SSICACR-2017, Feb.2017

13. A. Aloysius and K. Maheswaran "A survey on Complexity Metrics in Object Oriented System", SSICACR-2017, Feb.2017

### National Conferences/Journals

1. A. Aloysius, L. Arockiam, "Using Gender Differences to Link Intelligent Quotient and Program Debugging of Object Oriented Systems", Proceedings of National Conference on Software Engineering and Applications, Tirupattur, December 2008.

2. L.Arockiam, J.Charles Selvaraj, A.Aloysius, "A Study on the Impact of Personality traits in program debugging of object oriented System", proceeding on the National Conference on Advance Computing (NCAC), Jamal Mohammed College, Triruchirappalli, 2009.

3. L. Arockiam, K. Geetha, A. Aloysius, "A Survey on the Complexity Metrics for Component Based System", Proceeding of National Conference on Computer Science and Engineering (NCCSE-2010), Periyakulam, Tamilnadu, India, February 2010.

4. L. Arockiam, K. Geetha, A. Aloysius, P. Bastin Thiyagaraj "An Investigation into the impact of OO Design on Program Conprehension with individual and Collaborative Approach" Proceeding of National Conference on Emerging Trends in Advance Computing (NCETAC – 2010), Trichy, Tamilnadu, India, May 2010.

### Book Chapter Contribution

1. Computer Literacy (Chapter 11), published by St. Joseph's College, Trichy, 2013.
2. Environmental Studies (Chapter 1), published by St. Joseph's College, Trichy, 2014.

### Project

1. Co-Investigator for UGC sponsored Minor Research Project "An investigation into the Cognitive Complexity of Component based System" – 2009 to 2011.

### Conferences/Workshops Attended

1.  A Seminar on "JAVA" Organized by St.Joseph's College Trichy-2, March 2004.

2.  A Seminar on "Research Trends in IT" Organized by St.Joseph's College Trichy-2, March 2004.

3.  Training program on "J2EE and Best Practices in Application Development" organized by ICT Academy of Tamilnadu in Association with Cognizant Technology Solutions and Tata Consultancy Services, October 2009.

4.  Workshop on "Research Methodology for Teacher Scholars", organized by Pondicherry University and UGC, September 2009

5.  National Conference on "The Role of ICT in Higher Education: Quality, Accessibility and Security", Sponsored by UGC and Organized by St.Joseph's College (Autonomous), Trichy, January 2010.

6.  National Conference on "Research and Development : National and Global Perspectives " Organized by St. Joseph's College, Trichy, January-2011.

7.  A Workshop on "Smart Device Programming Using Android" Organized by Department of Computer Science, St. Joseph's College, Trichy,December- 2012.

8.  A Workshop on "Big Data Analytics and Business Intelligence", Organized by Department of Computer Science, St. Joseph's College, Trichy, January 2016.

9.  A Workshop on "HUMAN VALUES DEVELOPMENT PROGRAMME (HVDP)" for faculty of College in India Organized by AIACHE at Poondi Matha Retreat Centre, Poondi, on 12, 13 September 2016.

10. 2nd World Congress on Computing and Communication Technologies organized by Dept. of Computer Science and IT,SJC Trichy-2. On 02,03,04 september 2017.

11. "Faculty Orientation Program on Value Education" organized by Dept of Fondation Course, St. Joseph's College, Trichy-2. On 2016-08-17.

12. A Seminar on "Human Values Development Programme (HVDP)" Organized by  Poondi Matha Retreat Centre, Poondi from 09-12 -2016to 16-09-2016

## Grants/Sponsors Received

1.  Travel grant received from Tamilnadu State Conucil for Science and Technology (TNSCST) for Participating and Presenting a paper in the **International Conference** held at **Bali, Indoinesia** in October 2011.

## Acted as a Resource Person

1.  Workshop on "Computer Fundamentals", organized by Oxford Engineering College,Trichy December 2008

2. Delivered a lecture on "Internet and its Applications" in the workshop conducted by Oxford Engineering College, Tiruchirappalli, on 30th December 2008.

3. Acted as a Chair Person for the paper presentation competition held at Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur on 26th February 2009.

4. State level Intercollegiate Meet on IT Dimensions (FLASH 2K9), February 2009, organized by Dhanalakshmi Srinivasan College of Arts and Science for Women, Permbalur.

5. Acted as a resource person for the Staff Workshop on E-Content Preparation organized by JCICT, St. Joseph's College, Trichy on 26th and 27th October 2010.

6. Delivered a lecture on "Unix, Shell & C Programming" in the workshop conducted by Jayaram College of Engineering and Technology, Thuraiyur, Trichy on 5th February 2011

7. Acted as a board member of academic audit meeting for Computer Science Program, held at St. Mary's College, Tutucorin, on 18th February 2011.

8. Judge for Inter Collegiate Competition "Webfest 13" Held at Holy Cross College- Trichy on 6th September 2013.

9. Workshop on "Regional Work shop on ICT Training" for Teachers in Rural School ,on 9th and 10th October 2013 .

10. Acted as a resource Person for the Staff Orientation Program "Computer Literacy" Held at St. Joseph's College Trichy-2on 23rd January 2014

11. Special Invitee for Association Meeting "Project Management" Held at Holy Cross College Trichy-2, on 15th September 2014.

12. Judge for the Paper Presentation "CYBER FEST 2014" Held at Held at Holy Cross College Trichy-2, on 15th December 2014.

13. Organizing secretary for "Comtech2k16", on 19-2-2015 at SJC, Trichy-2.

14. Judge for the Paper Presentation "CYBER FEST 2014" Held at Held at Holy Cross College Trichy-2, on 11th November 2015.

15. Special Lecture on "PowerPoint Presentation for Research" Held at St. Joseph's College Trichy-2, on 20th February 2016.

16. Judge for Intra Departmental Competition "Cyberfest 16" Held at Holy Cross College- Trichy on 9th September 2016.

17. Special Lecture on "Issues in Cloud Computing " held at Srimad Andavan Arts and Science college, Trichy-5, on 30-01-2017

18. Special Lecture on "Cloud Computing " held at dept of CS, Jamal Mohammad college, Trichy, on 12-12-2017

19. Workshop on "Excellence Through Excel Macros" for PG students held in trichy ,on 20-12-2018.

20. Chair person for the paper presentation on "Transforming Technology" " held at Srimad Andavan Arts and Science college, Trichy-5, on 25-01-2018

21. Judge for the Paper Presentation "CYBER FEST 2018" Held at Held at Holy Cross College Trichy-2, on 19th February 2018.

I declare that the information furnished above is true to  best of my knowledge.

Place: Trichy

Date:

(A. Aloysius)