

Faculty Profile

- 1.Name of the Faculty** : Dr. C.P.INDUMATHI
2.Department and Designation : Assistant Professor
3.Date of Joining : 28.6.2008
4.Faculty ID : TF0137
5. E-mail Address : inducp@gmail.com
6. Date of Birth : 1981
7. Qualification :



Degree	Area of Specialization	University	Year of Passing	Class	Institution studied
Ph.D	ICT - CSE	ANNA UNIVESITY	2017	COMMENDED	ANNA UNIVESITY, Chennai
M.E	CSE	ANNAMALAI UNIVESITY	2004	FIRST CLASS WITH DISTINCTION	ANNAMALAI UNIVESITY
B.E	CSE	ANNAMALAI UNIVESITY	2002	FIRST CLASS WITH DISTINCTION	ANNAMALAI UNIVESITY

8.Specialization :

Software Engineering ,Software Testing, Object Oriented Design, Data Structures

9. Professional Experience:

Assistant professor (2008 – Present): Bharathidasan Institute of Technology Campus, Anna University, Tiruchirappalli .

Lecturer (2004-2007): Krishnasamy College of Engineering and Technology, Cuddalore.

10.Research Guidance:

No. of UG project guided:30

No. of PG project guided:20

11.Awards and Honours :

Life Member, Indian Society for Technical Education (ISTE)

Member, The Institution of Engineers (MIE)

Member ,International Association of Engineers(IAENG)

12. Sponsored Projects: NIL

13. Patents: NIL

14. Publications

(i) Internationally Refereed Journals :

1. B.Galeebathuallah and **C.P.Indumathi**, “A Novel Approach for controlling a size of test suite with simple technique”, International Journal of Computer Science &Engg (IJCSSE), Vol. 2, no. 3, pp. 614-618, 2010.
2. R.Renugadevi and **C.P.Indumathi**, “Video Surveillance System Based on Motion Detection for Mobile Clients”, International Journal of Advanced Research (IJART), Vol. 2, no. 1,pp. 32-36, 2012. [ISSN : **6602 3127**].
3. **C.P.Indumathi**, Arun Pandian, “Fuzzy Logic-based traffic Adaptation in wireless mesh network”, International Journal of Scientific Research in Computer Science Application and Management Studies(IJSRCSAMS), ISSN:2319-1953, Volume 3, Issue 6 November,2014.
4. **C.P.Indumathi**, Selvamani K, “A Clustering approach For Prioritize the Test Case using Change Based Prioritization Algorithm”, International Journal of Innovations & Advancement in Computer Science IJIACS(UGC journal), ISSN 2347 – 8616, Volume 6, Issue 7,July 2017.

(ii) National Journals:

1. Arun Pandian, **C.P.Indumathi**, “Fuzzy-based routing in wireless mesh network”, Indian Journal of Automation and Artificial Intelligence, ISSN:2320-4001,Volume2(1),81-94,July2015.

(iii) International Conferences

1. **C.P.Indumathi** and S.Saranya, “A Novel Technique for verifying correctness of Extract Method Refactoring in Object Oriented System “, National Conference on Image ,computing object and Mining (ICOM’2010), Vol. 1, pp. 459-470,2010. [ISBN: 978-93-80408-29-3].

2. B.Galeebathuallah, [C.P.Indumathi](#),” An automated tool for mapping between test cases and requirements for Test Suite Reduction”, National Conference on Emerging Trends in Computer Science &Tech (ETCET’10),SVCET, Virudhunagar, 2010.[Proceedings P.NO:91-93].
3. B.Galeebathuallah, [C.P.Indumathi](#), “Analysis of Maximum Test Coverage using Association Rule Mining”, National Conference on Recent Trends in Comm, Computation &Signal Processing (RTSCP’10) ,Coimbatore, 2010.
4. K.Ramya & [C.P.Indumathi](#), “Refactoring using Extract method in OOS”, National Conference on Issues & Trends in Advanced Computing, Banari Amman Institute of Technology, Coimbatore, 2010.
5. R.Karthick & [C.P.Indumathi](#), “Queuing model based Adaptive control of Web Application”, 3rd National Conference on Recent Trends in Comm, &Tech (RACT’10),Francis Xavier Engg College ,Tirunelveli, 2010.[Proceedings P.NO:53-56].
6. K.Ambika & [C.P.Indumathi](#), “Secured client controlled direction finding Infrastructure”, National Conference on Emerging Trends in Advanced Computing (NCETAC’10),Jayaram College of Engg &Tech ,TRICHY, 2010.
7. [C.P.Indumathi](#) & S.Saranya, “Domain driven Classification for credit card holder behavior using Fuzzy Linear Programming”, DRDO Sponsored National Conference on Innovations in Information Technoogy (NCIIT’2011), Bannari Amman Institute of TECH,Coimbatore,2011.
8. C.P.Darani ,V.Srinivasan and [C.P.Indumathi](#), “Analysis of Pathological voices using GMM& SVM”, UGC Sponsored National Conference on Multimedia Signal Processing (NCMSP’11),Annamalai University, 2011.
9. J.Manochitra,R.Charumathi and [C.P.Indumathi](#), “Test case Reduction –An experimental analysis through coverage technique”, National Conference on Emerging Trends in Engineering ,Management &Computer Applications (EMCA’11) AUTT ,TIRUCHIRAPPALLI ,2011.
10. [C.P.Indumathi](#)& S.priya, “Ordering Test Cases using Open Dependency Structures”, National Conference on Imaging ,computing object &Mining (ICOM’2013), AUTT ,TIRUCHIRAPPALLI, April 26-27(2013),ISBN:978-81-9102-12-6-4.
11. [C.P.Indumathi](#) & S.Kaladevi, “Multicriteria Optimization of Regression Test cases”, National Conference on Imaging ,computing object &Mining (ICOM’2013), AUTT TIRUCHIRAPPALLI, April 26-27(2013)pp:39-42,ISBN:978-81-9102-12-6-4.
12. [C.P.Indumathi](#) & S.Ranimuthu,” Comparative Analysis of Distinct Anti-Collision algorithms for RFID Re-entering Tag”, TEQIP II National Conference on Intelligent systems ,Computing and Information Technology(NCICIT2014),Paper no:28 ,pp 194-201 April 4th-5th 2014.
13. [C.P.Indumathi](#), Chandralekha, “Guide-Event Tracking System-HEALTHCARE”, National Conference on Recent Trends in Engineering and Technology(NCRTET’14),March 24th 2014.

14. [C.P.Indumathi](#), S.Arul, “Oxygen Level Monitoring and Secured Transmission of Data using DES “, 2nd National Conference on Innovative and Emerging Trends in Engineering and Technology(NCIETET’15),14th May, 2015.
15. [C.P.Indumathi](#), S.Mathivadani, “Survey on automated test case generation methodologies-A milestone in the path of testing”, National conference on Advancement in Embedded systems and sensor networks,No.86, 2015,ISSN:2348-8387.
16. [C.P.Indumathi](#), M.Arunvel, “Survey on regression testing techniques: A mandatory testing methodology”, National conference on Advancement in Embedded systems and sensor networks,No.60, 2015,ISSN:2348-8387
17. [C.P.Indumathi](#), E.Sowmiya,L.Sowmiya, “Find the Feasible Path Based on UML State Chart Using Genetic Algorithm”, National Conference on Research Challenges in SMAC(NCSMAC’16), Thyagaraja College of Engineering, Madurai.,29th January,2016.
18. [C.P.Indumathi](#), R.Lavanya Bai , “Generate and finding the feasible test path through APFD Metric using path disparity”, National Conference on Intelligent Systems And Communication(NCISC-2016),June 2016,ISBN – 9789380757131, p.no:8-15 -78
19. [C.P.Indumathi](#) and K.Selvamani,” Test case Optimization using fuzzy Decision making”,National Conference on Communication and Computing Technologies (NCCCT’16) ,Aug 2016, ISBN:978-93-80622-19-4 , p.no:72 -78
20. [Dr.C.P.Indumathi](#) and N.Vinothini , “Enhancing Fault Localization Using Control And Data Flow Dependence Structures” ,International Conference on Inventive Systems and Control (ICISC 2018) JCT College of Engineering and Technology ,Coimbatore, 19-20 Jan 2018, ISBN:978-1-5386-0807-4, p.no :1299-1304.

(iv) National Conferences

1. [C.P.Indumathi](#) B.Galeebathuallah, &O.Pandithurai , “Analysis of test case coverage using data mining technique”, IEEE International Conference on Communication, Control and Computing Technologies (ICCCCT 2010) Syed Ammal Engineering College, Ramanathapuram ,17 Dec2010**Page(s):** 806 -809, **ISBN:** 978-1-4244-7769-2, DOI:10.1109/ICCCCT.2010.5670732
2. S.Durai &[C.P.Indumathi](#), “Enhancing the design quality by move method Refactoring”, International Conference on Information Comm& Embedded systems ,SA Engg College ,Chennai,Feb 2011.
3. [C.P.Indumathi](#) &S.Priya, “Prioritizing Test Cases based on dependency Structures”, International Conference on Computing, Communication and Advanced Network (ICCAN ’13),CIT ,Chennai, 15-17 March 2013.
4. [C.P.Indumathi](#) & S.Ranimuthu, “Empirical Perusal on Anti-Collision algorithms for RFID Tags”, IEEE International Conference on Advanced Communication, Control and Computing Technologies (ICACCCT 2014) Syed Ammal Engineering College, Ramanathapuram, vol,no.1.no.1,Paper no 1078 pp 764-768,,ISBN:978-1-4799-3914-5/14

5. P.Vadivukarasi, C.P.Indumathi, “Query based Image Retrieval using SVM Algorithm”, International Conference On Innovative Trends In Computing & Technology, March 07th and 8th, 2014.
6. C.P.Indumathi, R.Karthika, “Adaptive Random Testing Using Multiple coverage criteria”, International conference on Architecture, Software systems and Green computing, 2014-ICASG14, Vol.1, no.1, paper no.140, pp.640-6643, ISBN:978-93-81208-31-1
7. C.P.Indumathi, K.Selvamani, “Test Cases Prioritization using Open Dependency Structure Algorithm”, International Conference on Intelligent Computing, Communication Amd Convergence(ICCC-2014), Bhubaneswar, Odisha., 27th and 28th December, 2014.
8. C.P.Indumathi, K.Selvamani, R.Lavanya ER Diagram Based Web Application Testing Bai, “Comparative Study of Test suite Filtering Technique “, IEEE International Conference on Computational Intelligence and Computing Research(ICCIC)-2015, Dec 10-12, 2015, ISBN :978-1-4799-7848-9, p.no 1-6, DOI:10.11.09/ICCIC.2015.7435787, p.no 627-632.
9. C.P.Indumathi, Sabeena Begum, “Comparative Study of Test suite Filtering Technique”, IEEE International Conference on Computational Intelligence and Computing Research(ICCIC)-2015, Vickram College of Engineering, Enathi, Madurai., Dec 10-12, 2015, Presented, ISBN :978-1-4799-7848-9, Proceedings, (p.no 627-632)
10. R.Lavanya Bai, C.P.Indumathi, “Test data generation using Bi-Objective function”, IEEE International Conference on Advanced Communication Control and computing technologies(ICACCCT’16), Syed Ammal Engineering College, May 2016 (25-27), Presented, Proceedings, (p.no 758-762).
11. C.P.Indumathi, Sabeena Begum, “Web Database using ER diagram and State Transition model”, IEEE International Conference on Communication and Signal Processing, Adhi Prasakthi Engineering College, Melmaruvathur, APRIL 6-8 2016, Presented, ISBN :978-1-5090-0395-2/16/ Proceedings (p.no 1615-1620).
12. C.P.Indumathi, S.Madhumathi, “Cost Aware Test Suite Reduction Algorithm for Regression Testing”, IEEE International conference on Trends in Electronics and Informatics SCAD College of Engineering and Technology, Tirunelveli, MAY 11-12 2017, Presented, ISBN :978-1-5090-4257-9/17/ Proceedings (p.no 869-874).
13. C.P.Indumathi, Selvamani K, “A Clustering approach For Prioritize the Test Case using Change Based Prioritization Algorithm”, International Conference on Engineering Technology, Science and Management Innovation Institution of Electronics and Telecommunication Engineers, Delhi, 16th JULY 2017, presented, ISBN: 978-81-934083-7-7, Proceedings, (p.no 723-728).

14. CONFERENCES/WORKSHOPS/SEMINAR/ SHORT TERM REFRESHER COURSE ATTENDED

S. No	Host Institution	Topic	Date
1	KCET,Cuddalore	FDP on Total quality Management	2004 - 1day
2	PEC,PUDUCHEERY	ISTE short term training pgm on "Advanced s/w Engg Methodologies	NOV'2006 -5days
3	Annamalai University ,Annamalai Nagar	Training pgm on MICROSOFT.NET	NOV'2006-5days
4	ICT Academy of TamilNadu	Training pgm on J2EEE& BEST PRACTICES in APP.Development	DEC'2009-2days
5	NIT ,Tiruchirappalli	MHRD –AICTE SDP on "Recent Researches on Fuzzy logic & Neural Networks"	JUN-JUL'2010-13days
6	AUTT,TIRUCHIRAPPALLI	Workshop on Software Testing Methodologies	OCT'2010-2days
7	AUTT,TIRUCHIRAPPALLI	Seminar on Computational Optimization and Simulation	APR'2011- 1day
8	AUTT,TIRUCHIRAPPALLI	Workshop on Software Project Formulation	Aug'2011-1day
9	AUTT,TIRUCHIRAPPALLI	Seminar on Research Methodology	Aug'2011-1day
10	UCE, Bit Campus, Tiruchirappalli	Workshop on Soft Computing Techniques :Data Mining Perspective	OCT'2012 -1day
11	Anna University ,BIT Campus, Tiruchirappalli	National Seminar on Intellectual Property Rights and Bio Technology(NSIPRB-2013)	Feb '13-1 day
12	UCE ,Bit Campus, Tiruchirappalli	National Seminar on "SOFTWARE TESTING -AN INDUSTRIAL PERSPECTIVE " (SIAP'13)	Nov 21-22(2013)-2days
13	UCE ,Bit Campus, Tiruchirappalli	TEQIP Sponsored Faculty Development Programme (FDP) on "Pedagogical Training" Organized by NITTTR ,Chennai	Dec 9 th to 22 th 2013
14	MS Ramaiah Institute of Technology, Bangalore-54,	TEQIP-II sponsored Regional workshop on "Web based Student, Faculty and Staff Satisfaction Survey"	22 nd sep 2014
15	NIT,Tiruchirappalli	FDP ON Data Mining and Data Analytics	November 24 th – 28 th 2014
16	Bharathidasan Institute of Technology, Tiruchirappalli.	Training in IBM SEED Program	29 Dec, 2014 –2 Jan, 2015

17	Anna University,Chennai -25	Workshop on Research Methodology	23.01.2015
18	Anna University,Chennai -25	Workshop on Recent Techniques in “Web services and Internet”	18.02.2015 and 19.02.2015
19	Anna University ,Bit Campus ,Tirucirappalli	TEQIP-II Sponsored FDP on “Network Technologies & Security”	MAY 4 th to 19 th 2015
20	Anna University,Chennai -25	Faculty Development Training programme On “Cryptography & Network Security”	25.05.2015 and 31.05.2015
21	SASTRA University, Thanjavur.	Two days Workshop on “LATEX”	12 th &13 th February,2016.
22	Anna University,BIT Campus- Tiruchirappalli.	Two Days International Workshop on “Big Data Visualization and Graph Databases(BDVGD)”	24 th & 25 th February, 2016.
23	IIT Madras	Faculty Development Programme on learning improvement techniques	10 th to 12 th March 2016
24	Anna University,BIT Campus- Tiruchirapalli.	TEQIP II sponsored two days National level seminar on cloud computing:A Hands on approach	15 th &16 th September,2016
25	Faculty Development Programme on Learning improvement Technique (Teaching learning Centre)	10 th to 12 th March 2016	IIT Madras
27	TEQIP II sponsored two days National level seminar on cloud computing:A Hands on approach	15 th &16 th September,2016	Anna University,BIT Campus- Tiruchirapalli.
28	Secure Coding Best Practices for Safety, Security and Mission Critical Systems	24 th February 2017	NIT,Tiruchirappalli
29	International workshop on “World Class Curriculum Design for Computer Science with Research aspects	15 th Nov 2017	Bharathidasan University, Khajamalai Campus, Tiruchirappalli-620 023.

15. CONFERENCES/WORKSHOPS/SEMINAR ORGANISED

Sl.No	Host Institution	Topic	Date & Duration (Days)
1	Anna University,BIT Campus-Tiruchirapalli.	TEQIP -II SPONSORED Two Days National Conference On Intelligent systems, Computing and Information Technology	4.4.2014 to 5.4.2014(2 days)
2	Anna University,BIT Campus-Tiruchirapalli.	TEQIP II sponsored two days National level seminar on web application design and development	11.8.2016 &12.8.2016(2 days)

16. Other contribution

Special Lectures Delivered:

S. No	Arranged by	Topic	Date	Number & Level of Participants
1	Oxford Engineering college,Trichy	"SOFTWARE TESTING- THE PERCEPTUAL EVALUATION "	28 th Feb 2014	63 (UG ,PG and Faculty)

Additional Responsibilities Held

Sl.No	Roles and Responsibility(Ex: Class Coordinator, INNOAUTT Coord, Antiragging, Examcell Member/Coord, Time Table Coord, Placement,Alumini, Part time, Warden, MBCBS, NSS,NCC, etc...)	Year
1	Class Coordinator for B.Tech (I.T)	2008-2012
2	Project Coordinator B.Tech (I.T) -Final yr	2011-2012
3	Antiragging commitee member	2010& 2012
4	Faculty Coordinator for Student Innovation Club	2010-2011
5	Internal Unit Test Coordinator	2009-2010
6	Exam Cell Dept Coordinator	Even sem '2012
7	NBA Dept Coordinator	2012-2013

8	Stage Decoration Committee member during the First convocation of Anna University ,Tiruchirappalli	2011
9	Department coordinator for Social Activity Scheme	2010-2011
10	TEQIP Dept Coordinator	2013-2016
11	Class Coordinator for B.Tech (I.T)	2013-2017
12	PG Project Reviewer(ME-SE)	2014-2015
13	IT Programme Coordinator	Feb 2015 onwards
14	College Bus Committee Member	From 2015 onwards

Inter Academic and Research Activities(Invited Lectures, Sesssion Chair, chief guest, Key Note speakers, Event Judge

Sl.No	EVENT NAME	Year
1	National Symposium conducted by EEE AUTT – Session chair	2011
2	One Day Workshop on “SOFTWARE TESTING” THE PERPETUAL EVALUATION –Resource Person	28 th Feb 2014
3	TEQIP Sponsored International Conference on Computational Intelligence (ICCI)-Session chair	April 7 th & 8 th 2015
4	Acted as Expert member for Interview Panel on “SRI Venkateswara college of Engineering and Technology, SriPerumbdur	30 th November 2016
5	Two Days National level Technical Symposium FENIX ' 17 CSE AU,Trichy - Session Chair	16 th & 17 th 2017