

## FACULTY PROFILE

**Name** : Mr.T.PUSHPARAJ  
**Designation** : Assistant Professor  
**Department** : BIT (B.Sc., Information  
Technology)



**Date of Joining** : 01/10/2021

**Email** : pushparaj@americancollege.edu.in, pusht82@gmail.com

### EDUCATIONAL CREDENTIALS

| COURSE/DEGREE | SUBJECT              | COLLEGE / UNIVERSITY & PLACE                           | YEAR COMPLETED   |
|---------------|----------------------|--|--|
| Ph.D          | Computer Science     | M.K.University, Madurai                                | Thesis Submitted, Two External Report Received as positive, & waiting for Final VivaVoce |
| M.B.A         | System               | Alagappa University, Karaikudi                         | 2012   |
| M.Phil        | Computer Science     | Periyar University, Salem                              | 2007   |
| M.C.A         | Computer Application | K.L.N College of Information Technology, Madurai.      | 2006   |
| B.SC          | Computer Science     | N.M.S.S.Vellaichamy Nadar College, Nagamalai, Madurai. | 2003   |

### RESEARCH DEGREE(s) :

| Degrees                          | Title  | Date and year of award   | University                |
|----------------------------------|--|--|---------------------------|
| <b>M.Phil (Computer Science)</b> | Software Testing   | 2007   | Periyar University, Salem |
| <b>Ph.D (Computer Science)</b>   | A Study on Test bed generation to control the attacks in Software Security | Thesis Submitted, Two External Reports Received as Positive & Waiting for FinalViva Voce | M.K.University, Madurai   |

### **SPECIALIZATION IN TEACHING**

- C Language
- Object oriented programming with C++
- Operating System
- Software Engineering
- System Software
- DBMS
- Python Programming
- Software Testing and Quality Assurance

### **SPECIALIZATION IN RESEARCH**

- Software Engineering (Software Testing)

### **TOTAL WORK EXPERIENCE IN COLLEGE TEACHING PROFESSION**

| <b>Designation</b>  | <b>Institution / Company</b>                       | <b>Year - From<br/>(month/year)to<br/>(month/year)</b> |
|---------------------|--|--|
| Lecturer            | PSNA College of Engineering & Technology, Dindigul | 10/01/2007<br>to<br>26/12/2010                         |
| Assistant Professor | PSNA College of Engineering & Technology, Dindigul | 26/12/2010<br>to<br>30/09/2021                         |
| Assistant Professor | The American College                               | 01/10/2021<br>to<br>Till Date                          |

### **EXPERIENCE GAINED :**

**i. Teaching Experience in The American College as on 08/03/2024 :**

2 Years 5 Months

**ii. Teaching Experience in other Institution: 14 Years 8 Months**

**iii. Other Experience: Nil**

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**RESEARCH PUBLICATIONS – NATIONAL CONFERENCES**

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**1. T.Pushparaj**, "Bottleneck in Software Testing an Analysis", AICTE Sponsored **National Conference** on Intelligent Computing (I-CUBE'09), Rajiv Gandhi College of Engineering and Technology, Pondicherry, on **July 29 & 30, 2009**.

**2. T.Pushparaj**, "A novel prediction on breast cancer from the basis of association rules and neural network", **National Conference** on Emerging Trends in Knowledge Engineering (NCETKE'10), Thiagarajar College of Engineering, Madurai on **Nov 26 & 27, 2010**.

**3. T.Pushparaj and Dr.S.Kannan**, "A study on automatic test case generation", DST SERB & PSNACET Sponsored **National Conference** BEAT 2016 on Big Data& Analytics for Business, Department of Management Studies PSNA College of Engg. & Tech., Dindigul, **April 29-30, 2016**.

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**RESEARCH PUBLICATIONS – NATIONAL & INTERNATIONAL JOURNAL**

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**1. T.Pushparaj**, "Cloud Testing – Opportunities, Challenges, Services", **National Journal** of PSNA Journal of Business and System, Vol 2, Issue 1, pg. 29 – 37, ISSN : 2319 – 2909, **Jun 2012**.

**2. T.Pushparaj**, "A Novel Prediction on Breast Cancer from the Basis of Association rules and Neural Network", **International Journal** of Computer Science and Mobile Computing (IJCSMC), Vol. 2(4), pp.269-277, **Impact Factor : 7.056, UGC J.No:10.47760,ISSN2320-088X**, [https://www.ijcsmc.com/past\\_issues/volume\\_2\\_issue\\_4](https://www.ijcsmc.com/past_issues/volume_2_issue_4), **April 2013**.

**3. T.Pushparaj, Dr.S.Kannan**, "A Study on Variations of Bottlenecks in Software Testing", **International Journal** of Computer Sciences and Engineering (IJCSE), Impact Factor – 1.251, Volume-02 , Issue-05 , Page No (8 -14 ), **UGC J.No : 63193, https://ijcseonline.org/ijcse\_search.php, May 2014**.

**4. T.Pushparaj**, "An Overview of Maintaining Security in Web Services", **International Journal** of Computer Science & Mobile Computing (IJCSMC), Vol 4, Issue 4, pp.27-30, **Impact Factor : 7.056, UGC J.No : 10.47760, ISSN 2320-088X, https://www.ijcsmc.com/past\_issues/volume\_4\_issue\_4, April 2015**.

**5. T.Pushparaj, Dr.S.Kannan, "A Survey on Automatic Test Case Generation", International Journal of Trend in Research and Development (IJTRD), Impact Factor – 3.025 (Calculated by I2 OR - 2016 ), Volume-3 , Issue-6 , ISSN: 2394-9333, <http://www.ijtrd.com/papers/IJTRD5488.pdf>, December 2016.**

**6. T.Pushparaj, Dr.S.Kannan, "A Review: Software Security Testing", International Journal of Computer Science and Engineering (SSRG-IJCSE), ISSN : 2348 – 8387, Volume 4 Issue 9, Impact Factor : 1.15, Paper Id : IJCSE-V4I9P101, [http://www.internationaljournalsssrg.org/IJCSE/archive\\_details?page=Volume4-Issue9-2017](http://www.internationaljournalsssrg.org/IJCSE/archive_details?page=Volume4-Issue9-2017), September 2017.**

**7. T.Pushparaj, Dr.S.Kannan, "Creation of testbed security using Cyber-Attacks", International Journal of Computer Science and Engineering (SSRG-IJCSE), ISSN 2348 – 8387, Volume 4 Issue 11, Impact Factor : 1.15, PaperId: IJCSEV4I11P102, [http://www.internationaljournalsssrg.org/IJCSE/archive\\_details?page=Volume4-Issue11-2017](http://www.internationaljournalsssrg.org/IJCSE/archive_details?page=Volume4-Issue11-2017), November 2017.**

**8. T.Pushparaj, Dr.S.Kannan, "An Analysis of Software Testing Security using Quality Assurance and Reliability", International Journal of Computer & Organization Trends (IJCOT), ISSN : 2249 – 2593, Volume 7-Issue 6, Paper Id : IJCOT-V7I6P301, Impact Factor : 2.93, CrossRef : 10.14445/2249-2593, <https://www.ijcotjournal.org/archive/ijcot-v7i6p301>, Nov to Dec 2017.**

**9. T.Pushparaj, Dr.S.Kannan, "Debugging and Finding the Errors in Security Testing Techniques", International Journal of Computer Trends and Technology (IJCTT), Paper Id : IJCTT-V53P103, UGC approved journal, e-ISSN : 2231 – 2803, P-ISSN : 2349-0829, Volume 53, Number 1 , Impact Factor : 2.01, <https://www.ijcttjournal.org/archives/ijctt-v53p103>, November 2017.**

**10. T.Pushparaj**, "BEHAVIOR OF MULTIPLE ROBOTS AND THEIR COMPARISON WITH THEIR COMPUTER SIMULATIONS BY APPLYING TARGET-SEARCHING ALGORITHM", **Scopus - INTERNATIONAL JOURNAL OF MECHANICAL ENGINEERING & TECHNOLOGY (IJMET)**, **Journal Impact Factor (2016) : 9.2286**, Volume 9, Issue 11, pp. 2112 – 2125, **ISSN Print: 0976-6340**, ISSN Online: 0976-6359,

<http://www.iaeme.com/SearchResults.asp>, **November 2018**.

**11. T.Pushparaj**, "Implementation of Morphological Operation through Intercept Based Euclidean Distance Algorithm", **Scopus - International Journal of Innovative Technology and Exploring Engineering (IJITEE)**, **ISSN: 2278 - 3075**, Volume-9, Issue-4, pp. 2472-2475, <https://www.ijitee.org/download/volume-9-issue-4/>, **February 2020**.

**12. T.Pushparaj**, "Development of RBF Image Processing Techniques for Graves Disease", **Scopus - INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH**, **ISSN 2277-8616**, VOLUME 9, ISSUE 03, pp.2038-2041,<http://www.ijstr.org/research-paper-publishing.php?month=mar2020>, **MARCH 2020**

**13. T.Pushparaj**, "Impact of Empowering Leadership on Organizational Performance", **Scopus - International Journal of Productivity Management (IJPM)**, **ISSN 1868 - 8519**, Volume -25, Issue - 4, SJR : 0.13, **GITO Verlag**, pp.437 to 462, <http://productivitymanagement.org/pm2520200830.html>, **AUGUST 2020**.

**PATENT DETAILS:**

| Title of the Paper / Book Chapter / Book   | Name of the Journal / Publisher (with month, year)    | DOI Link  |
|--|---|---|
| DYNAMIC CLUSTERING TECHNIQUE USING DEVICE DIFFERENTIATOR OF IOT DEVICES FOR SMART CITIES | Computer Science Engineering, Electronic (04/09/2020) | REQUEST FOR EXAMINATION DATE : 12/08/2020<br><br>PUBLICATION DATE (U/S 11A) : 04/09/2020<br><br>PATENT : P.NO 194 |

## **ACTIVITIES**

- a. Acted as Timetable Incharge
- b. Acted as Placement Incharge
- c. Acted as Lab Incharge
- d. Acted as Exam Cell Incharge

## **MEMBERSHIP IN PROFESSIONAL BODY:**

- \*\* MISTE
- \*\* MIAENG
- \*\* MIACSIT

## **SEMINAR / CONFERENCE / WORKSHOP / FDP DETAILS:**

| <b>Name of the Seminar / Conference / Workshop / FDP</b>                      | <b>Name of the Institution conducted</b>  | <b>From – To (mention date)</b> | <b>Organised/Participated/ Paper Presented/Acted as Resource Person</b> |
|---|---|---------------------------------|---|
| International FDP on the title Recent Trends in Computational Intelligence    | Dept of MCA, Bon Secours College for Women, Tiruchirappalli                     | 14.02.2022 to 18.02.2022        | Participated  |
| International FDP on the title Auto ML  | Dept of Computer Science, Lady Doak College, Madurai                            | 04.03.2022                      | Participated  |
| Power Webinar on the title Technological Innovation – Artificial Intelligence | Dept of Computer Science, IT and Computer Application in association with ICT   | 06.04.2022                      | Participated  |
| Seminar on the title Innovation / Prototype Validation                        | Dept of ECE, PSNACET  | 17.09.2022                      | Participated  |
| Seminar on the title Faculty Orientation Programme                            | IQAC, The American College  | 20.09.2022                      | Participated  |
| National Webinar on the title Regression Analysis                             | Dept of Data Science, The American College                                      | 01.10.2022                      | Participated  |
| FDP on the title The Nuances of Scientific Writing and Publishing             | All India Association for Christian Higher Education & Madras Christian College | 11.07.2022 to 19.07.2022        | Participated  |

|  |   |                                |              |
|--|---|--------------------------------|--------------|
| Workshop on the title Application of Image Processing in MATLAB                | Marcello Tech, Tiruchirappali   | 12.12.2022<br>to<br>16.12.2022 | Participated |
| Workshop on the title NPTEL E-Awareness  | NPTEL, IIT Madras   | 30.01.2023                     | Participated |
| State Level Seminar on the title Intellectual Property Rights                  | BCA Dept, The American College  | 03.02.2023                     | Participated |
| International Technical Webinar on the title Driverless Smart Car ADAS & ROS   | Pantech E-Learning Pvt Ltd, Chennai   | 12.03.2023                     | Participated |
| 7 Days National Level FDP on the title Industrial Revolution                   | ACT Academy, Tamilnadu  | 22.05.2023<br>to<br>29.05.2023 | Participated |
| 5 Days FDP on the title Ethical Hacking Tools and Techniques                   | Dept of IT, Kamaraj College of Engineering & Technology                       | 28.08.2023<br>to<br>01.09.2023 | Participated |
| Faculty Orientation Program  | IQAC, The American College  | 09.09.2023                     | Participated |
| International Conference on Data Transformation (ICDT)                         | The American College  | 20.03.2023<br>to<br>21.03.2023 | Presented    |
| 5 Days International FDP on the title Hybrid Education for Pedagogical Success | Dept of Computer Science, Saveetha College of Liberal Arts & Science (SIMATS) | 09.01.2024<br>to<br>13.01.2024 | Participated |

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**PERSONAL DETAILS**

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**DATE OF BIRTH** : 7<sup>th</sup> NOVEMBER 1982  
**FATHER'S NAME** : I.THAYALAN TAMIL SELVAN  
**LANGUAGES** : English, Tamil  
**KNOWN NATIONALITY** : Indian  
**MARITAL STATUS** : Married  
**CHILDREN** : 2  
**PERMANENT ADDRESS** : No.4-6-51, Ram Nagar, Karthick Nagar,  
Kosakulam, ParkTown (WD004), (Zone-1),  
Madurai - 625017

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