## Dr R.ArunPrakash

**Assistant Professor**
**Department of Computer Science and Engginering**
**Univrsity College of Engineering- Ariyalur**
**Kaathankudikadu,Thelur (PO)**
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**Research Area:**

Biometric Authentication and Pin Distribution based Architecture for Secure Mobile Commerce Applications.

**Educational Qualifications:**

| QUALIFICATION | DEPARTMENT | UNIVERSITY | YEAR (From -To) | CLASS |
|---|---|---|---|---|
| Ph.D | Computer Science & Engineering | Anna University | 2008-2016 | |
| M.Tech | Information Technology | Sathyabama University | 2003-2005 | First Class with Distinction |
| B.Tech | Information Technology | Bharathidasan University | 1999-2003 | First Class |

**Experiences:**

| Name of Company / Institutions | Designation of Post | From | To | Experience in Years |
|---|---|---|---|---|
| University College of Engineering Ariyalur | Assistant Professor | 05-03-2011 | Till Date | 10 Y 6 M |
| Velammal Engineering College-Chennai | Assistant Professor | 02-01-2007 | 04-03-2011 | 4 Y 1 M 11D |
| Saveetha Engineering College-Chennai | Assistant Professor | 07-07-2005 | 31-12-2006 | 1 Y 5 M 20 D |

**Awards:**

- **First Prize in Chief Minister Award for Excellance in E-Governance in 2015.**

**Additional / Academic Responsibilities at University:**

- Placement Co-ordinator from 2012 to Till Date.

- Class In charge from 2012 to Till Date.

- Industrial Visit Co-ordinator During 2013-2016

- Guiding five PhD Students under Anna University Chennai.

**Professional Activities:**

- Keynote Address Speaker for National Conference on Recent Trends in Computer fields –BWDA Arts and Science College on 9th Jan 2020.

- Handled the Motivational Talk and Recent trends in Computer fields for CSE Students of SRM Valliammai Engineering College,Chennai on Dec 19,2019.

- Guest lecture on Machine Learning at Rover Engineering college, Perambalur on October 28, 2019

- Coordinator for  a Program" Science and Technology Capacity Building for Industrial Needs "Sponsored by Tamilnadu State Council for Science and Technology and Government of Tamilnadu in University College of Engineering -Ariyalur From 6th  Feb to 9th  Feb 2019.(Sponsor amount One Lakh)

- Acted as Jury member in International Conference at University College of Engineering, Banruti on November 29 ,2018

- Guest lecture on 'Recent Developments in Machine Learning Process for Screening and Diagnosis of Autism using Rapid Miner' for Indian Council of Medical Research (ICMR) at V.R.S Engineering College, Villupuram on 6th May 2016.

- Keynote Address Speaker for National Conference on Emerging trends in M-Commerce in University College of Engineering -Panruti on 21st Nov 2015.

- Keynote Address Speaker for National Conference on Cryptographic and Network Security in Easwari Engineering College Chennai on 28th Mar 2015.

- Organized a Program Science and Technology Capacity Building for Industrial Needs Sponsored by Tamilnadu State Council for Science and Technology in University College of Engineering -Ariyalur From 07th July to 9th July 2014. (Sponsor amount One Lakh).

- Coordinator for Titan Employability Skill Training Program collaboration with Mahindra Pride School in University College of Engineering Ariyalur from Feb 2015 onwards.

## Membership of Scientific and Professional Societies:

- Annual Membership in ISTE

## My You Tube Channel to Spread the Knowledge:

- https://www.youtube.com/channel/UC3Ixe9cBQ1n3krQ0iharkcA

## List of Seminar / Short Term Course /FDP/ Workshop attended:

- Effective Teaching /Learning of Computer Programming Conducted by Indian Institute of Technology –Bombay From $14^{th}$ to $24^{th}$ Dec2009.(11 Days)

- Open Source Tools and Components and Open Source Software-Organized by CSI College of Engineering from $13^{th}$ to $14^{th}$ Dec 2012(2 days)

- Developing Pedagogical skills for through Active Learning Techniques –organized by MAM College of Engineering from $10^{th}$ to $22^{nd}$ June 2013(13 days)

- Research Methodologies of Information and Communication Enggineering organized by Meenakshi Ramaswamy Engineering College from $12^{th}$ to $22^{nd}$ June 2014(11 Days)

- Networking and Troubleshooting organized by University College Of Engineering-Ariyalur from $29^{th}$ sep to $1^{st}$ OCT 2014(3 Days)

- Advance Web Development –PHP & MYSQL organized by Dhanalakshmi Srinivasan Engineering College from $23^{rd}$ to $24^{th}$ July 2015(2 days)
.
- One Week Faculty Development Program on Multicore Architecture Sponsored by centre for faculty development Anna University Chennai in University College of Engineering Panruti from $23^{rd}$ to $29^{th}$ Nov 2016.

- Transforms and Partial Differential Equation sponsored by centre for faculty development Anna University Chennai in University College Of Engineering Ariyalur from $25^{th}$ to $31^{st}$ May 2017.

- Foundation Program in ICT for Education conducted by Indian Institute of Technology –Bombay from 03$^{rd}$ Aug to 07$^{th}$ Sep 2017(14 Days).

- Pedagogy for Online and Blended Teaching –Learning Process conducted by Indian Institute of Technology –Bombay from 14$^{th}$ Sep to 12$^{th}$ Oct 2017(14 Days).

- Effective use of IT for professional activities conducted by Indian Institute of Technology – Bombay from 4$^{th}$ Sep to 11$^{th}$ Nov 2018.

- Two week Faculty Development Training Program on Compiler Design sponsored by centre for faculty development Anna University Chennai in University College Of Engineering BIT Campus, Trichy from 3$^{rd}$ to 15$^{th}$ Dec 2018.

- Soft Skills on Online Course under the College Corporate programme conducted by Indian Institute of Technology –Bombay from 6$^{th}$ Sep to 4$^{th}$ Oct 2018.

- Workplace Communication on online course under the college corporate programme conducted by Indian Institute of Technology –Bombay from 4$^{th}$ Oct to 12$^{th}$ Nov 2018.

- Financial Literacy on online course under the college corporate programme conducted by Indian Institute of Technology –Bombay from 19$^{th}$ Feb to 18$^{th}$ Mar 2019.

- English for Oral Communication on online course under the college corporate programme conducted by Indian Institute of Technology –Bombay from 19$^{th}$ Feb to 17$^{th}$ Apr 2019.

- Handling Large Projects on online course under the college corporate programme conducted by Indian Institute of Technology –Bombay from 26$^{th}$ Mar to 22$^{nd}$ Apr 2019.

- One day Workshop on "Analog Discovery Kit" Conducted by Department of ECE,University College of Engineering –BIT Campus,Trichy on 7$^{th}$ June 2019.

- Fundamentals of 3D Visualization on online course under the college corporate programme conducted by Indian Institute of Technology –Bombay from 19$^{th}$ Sep to 4$^{th}$ Oct 2019.

- Basic 3D Modeling using Blender on online course under the college corporate programme conducted by Indian Institute of Technology –Bombay from 19$^{th}$ Sep to 4$^{th}$ Oct 2019.

- Basic 3D Animation Using Blender on online course under the college corporate programme conducted by Indian Institute of Technology –Bombay from 19$^{th}$ Sep to 23$^{rd}$ Dec 2019.
- Three Weeks Industrial Training On "Communication and Networking Technologies in Bharat Sanchar Nigam Limited During 08$^{th}$ June to 26$^{th}$ June 2020.

- ➢ Two week Online Faculty Development Training Program on "Advanced Optimization Techniques and hands-on with MATLAB/SCILAB" Organized by Electronics and ICT Academies-by the Ministry of Electronics and Information Technology, Government of India during 13th July to 24th July 2020.

- ➢ Two week Online Faculty Development Training Program on Data Science for ALL Organized by Electronics and ICT Academies-NIT Warangal,IITDM Jabalpur and NIT Patna during 27th July to 8th August 2020.

## International Conferences Participated:

- ➢ Attended and Delivered an Oral Presentation International Conference on Machine Learning and Computing (ICMLC 2011) in Singapore during Feb 26 to Feb 28, 2011.

## Publications:

### Books:

- ➢ **Programming in C** Published by Sri Seyon Publication-Chennai 2018**(ISBN NO: 978-81-936779-1-9).**

## International Journals:

- ➢ R. Arun Prakash, Mehata.K. M,Chellappan.C "A Novel Hybrid Authentication Method Based on Orientation Maps and Server Aided Signature for M-Commerce Secured Transactions "Journal of Theoretical & Applied Information Technology. Vol. 64 Issue 1, p84-94. 11p.Oct 2014.

- ➢ K.Shanmugam, ,Dr.B.vanathi,R.Arunprakash "Secured M-commerce Transactions using mixed Fingerprint Authentications" International Journal of Engineering Development and Research, ISSN:2321-9939, Vol.3, Issue 2, pp., Apr-2014.

- ➢ R. Arun Prakash,Mehata.K. M, Chellappan.C "A Robust Biometric Authentication and Pin Distribution Technique for Secure Mobile commerce Applications "Research Journal of Applied Sciences, Engineering and Technology 9(6): 409-418, DOI: 10.19026/rjaset.9.1420, ISSN: 2040-7459; e-ISSN: 2040-7467 Nov 2015.

- ➢ R. Arun Prakash,W. R. Salem Jeyaseelan and T. Jayasankar "Detection, Prevention and Mitigation of Wormhole Attack in Wireless Adhoc Network by Coordinator" DOI: 10.18576/amis/120123,Appl. Math. Inf. Sci. 12, No. 1, 233-237 Jan 2018.

- ➢ R. ArunPrakash1, T. Jayasankar and K. Vinothkumar" Biometric Encoding and Biometric Authentication (beba) Protocol for Secure Cloud in M-Commerce Environment" DOI: 10.18576/amis/120126,Appl. Math. Inf. Sci. 12, No. 1, 255-263 Jan 2018.

- R. Arun Prakash, R.J.Kavitha, and N.Thammarai kannan. ''Energy efficient hybrid optimization based K-means clustering and load balancing using optimized Ad-hoc on demand distance vector routing for WSN" DOI: 10.35940/ijitee.i7821.078919,IJITEE ISSN NO:2278-3075, vol-8; issue-9, July 2019.

- R. Arun Prakash, K.M.Anandkumar and A.Ramachandran. ''"New Wireless multifunctional smart robot for border security surveillance with real time objects recognisation" International Journal of Recent Technology and Engineering, DOI: 10.35940/ijrte.c5432.098319, ISSN no: 2277-3878, vol-8, issue-3, Sep 2019.

- R. Arun Prakash, K.M.Anandkumar and D.Amirtha Sughi "Cloud-based Smart Grid Architecture for Secured Big Data Information Management" DOI: 10.35940/ijitee.b7808.129219,IJITEE,ISSN:2278-3075,Volume-9 Issue-2,Dec 2019.

- R. Arun Prakash, K.M.Anandkumar and P.Harikumar "A Design of a Patient-Customized Healthcare System for Learning Blood Circulation System(I-Lbcs) by Game-Learning Environment(G-Le)"International Journal of Innovative Technology and Exploring Enginerring, DOI: 10.35940/ijitee.b6712.129219,ISSN:2278-3075,Volume-9 Issue-2,Dec 2019.

- R.Arun Prakash "Intelligent Heart Disease Detection and Classification Method Using Optimal Neuro-Fuzzy with Stochastic Gradient Descent Model for Smart SocietiesArtificial Intelligence Applications for Smart Societies" DOI: 10.1007/978-3-030-63068-3_12,Springer Book Chapter,Apr 2021.

## International Conferences:

- Presented a paper on Pin Distribution Techniques in M-Commerce System in International Conference on Machine Learning and Computing (ICMLC 2011) in Singapore during Feb 26 to Feb 28, 2011.

- Presented a paper on IOT Device and Applications Based on Lorawan in International Conference on Engineering and Technology (ICET 2020) Organized by the Institution of Engineers (India), Salem Local Centre and International Journal of New Innovation in Engineering and Technology (IJNIET). In Namakkal during 4th March and 5th March 2020.

## National Conferences:
- Presented a paper on Biometric Authentication in M-commerce System in Meenakshi Ramaswamy Engineering College Thathanur-09th Feb 2015.

- Presented a paper on Improved Pin Distribution Techniques in M-Commerce System in Velammal Engineering College -11th March2011.

DECLARATION:

I CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT TO THE BEST OF KNOWLEDGE AND BELIEF.

DATE:                                                                                      Signature With date