CURRICULUM VITAE / BIO – DATA
OF
Dr. PANDARINATH POTLURI

Professor of Computer Science & Engineering,

Department of Computer Science & Engineering,

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CURRICULUM VITAE/ BIODATA

Personal Information:

Name	:	**Dr. P. PANDARINATH**
Father's Name	:	P. Satyanarayana
Mother's Name	:	P. Sowbhagyamma
Date of Birth	:	03 – 08 – 1970
Nationality	:	Indian
Marital Status	:	Married
Address for communication	:	Flat No.504, S S Residency, SS Layout, Endada Junction, Visakhapatanam-530045. Vizag District, A.P, India.
Languages known	:	Telugu, English, Hindi & Kannada
Hobbies	:	Managing and coordinating events, Painting , Listening Music, Reading Books & Magazines.

Professional Profile:

Eager to bring Engineering students into the twenty first century using a unique combination of educational experience coupled with 23 years Teaching background in Computer Science & Engineering.

- ❖ Completed Ph.D. in Andhra University in 2012.
- ❖ Completed   Master's Degree in CSE and Bachelor's Degree in CSE.
- ❖ Dedicated to enthusiastic and dynamic teaching.
- ❖ Nurturing a lifelong love of knowledge in children.

ACADEMIC/ PROFESSIONAL QUALIFICATIONS:

- ❖ Completed Ph.D. in Andhra University in 2012
- ❖ Completed M.Tech (computer science & engineering) from Visveswariah Technological University Belgaum with 70.18%, in the year 2004.
- ❖ Completed B.E.in Computer Science & Engineering, Gulburga University, Gulburga, PDA College of Engineering in 1994.

Details of Experience   : 23 Years

Designation	Period of Experience	Name of the Institution & Address
Lecturer	August 1994 to June 2001	Sir CRR Institution, Eluru
Senior Lecturer	Aug 2002 to June 2004.	RVR&JC College of Engineering, Guntur
HOD	June 2004 to 2006 December	Sri Prakash College of Engineering
Associate Professor	December 2006 to 2012 September	Sir C R Reddy College of Engineering, Eluru.
Professor	17-09-2012 to 6-02-2014	Gudlavalleru Engineering College, Krishna Dt.
Principal	10-02-2014 to 04-12-2015	KITS Kodada Engineering College, Kodada.
	07-12-2015 to 02-03-2017	Guntur Engineering College, Yanamadala Guntur.
	6th March, 2017 to Dec 2019	Chalapathi Institute of Engineering and Technology,Lam, Guntur

Key Qualifications:

Plan and instruct each area of subject using wide variety of teaching aids, motivational and implementation strategies to engage students in active learning. Incorporate learning modality principles into classroom and individual instruction. Develop and conduct inter-grade activities. Utilize Heath automated math management system. Implement technological approaches to subject material. Research educational resources on the Internet. Assist with information retrieval.

Experienced Computer Educator:

Designed and conducted various faculty and student workshops for training in Network and Network Securities. Instructed corporate personnel in use of Network Security and drafting programs for Network Security methods.

SKILLS PROFILE

Communication Skills

- ❖ Prepared and conducted 4 assessed 20 minute presentations to my tutor group as part of my course using PowerPoint

- ❖ Developed succinct Report Writing Skills through project assignments
- ❖ Learnt to speak efficiently in formal meetings through my course representative duties
- ❖ Experience of dealing effectively with a wide range of customers through working educational a good organizations Employ lots of students

Computer Skills

Operating Systems	MS-DOS, Windows 3.1, 95, 98, NT 3.5, NT4.0, Windows 2000, Windows 2003, Windows XP, Windows 7, UNIX Services Novell Netware 3, 4 & 5, SCO UNIX, Red Hat Linux.
Networking	LAN, WAN, TCP/IP, LAT NET, WINS, DHCP, DNS, NIS, NFS, SAMBA, Active Directory, ISDN DSL, T1, T3 & Frame Relay and Fax Server.
Network Applications Software:	SQL, Exchange, OWA, Netback up, Arch serve, SAP R3, MAS 90, Minitrack, Caldwell Spartan, Vantage Vista, Front Office, Back Office.
Hardware	IBM, Sun, HP, Compaq, Dell, Servers / Terminals / Printer operations
Programming Languages	Visual Basic, SQL, Oracle, Access, C Oracle, C++, JAVA, ODBC, VB Script, Clear Case, PVCS, Clear Quest. Data Warehousing, Business Objects
Desktop Application Software	MS Word, Excel, Outlook, Power Point, Project

Computer Related Teaching Programs:

"Attended Workshops in IIIT Hyderabad, IIT Khargpur, IIT Madras, IIT Kanpur and Anna University, Chennai."

Summary of the Teaching and other Duties in the College:

A) I) Subjects taught /Teaching at present:

- ❖ Computer Organization
- ❖ Database Management Systems
- ❖ Operating Systems
- ❖ Computer Networks
- ❖ Network Security

- ❖ High Speed Network
- ❖ TCP/IP internal Protocols
- ❖ Parallel Computing
- ❖ Advanced Computer Architecture
- ❖ Design and Analysis of Algorithms
- ❖ Principles of Programming Languages
- ❖ Digital Logic Design
- ❖ Bio – Informatics

II) Laboratories Handled:

- ❖ Network Security Lab
- ❖ Database Management System Lab
- ❖ Data Communications Network Programming Lab
- ❖ Operating System Lab
- ❖ Computer Organization Lab

Projects Guided:

B.Tech Projects:

- ❖ Virtual Routing Network Emulation Framework
- ❖ Design of a Robust and Secure Digital Signature Scheme for Image authentication over Wireless
- ❖ A Unified Approach to Optimize the Performance in Networks Serving the Heterogeneous Flows
- ❖ Blocking Misbehaving Users in Anonymising Networks
- ❖ Message Encryption Scheme Using Cheating Text.
- ❖ A Distributed Algorithm for Constructing Approximate Minimum Spanning Trees in Wireless Sensor Networks.
- ❖ Ensuring Data Storage Security in Cloud Computing.
- ❖ Bandwidth Estimation for IEEE 802.11- Based AD HOC Networks.
- ❖ Safe and Secure Internet Banking System.
- ❖ Virtual Class Room.
- ❖ Online Sales and Inventory Management.

2. M. Tech Projects Guide and Coordinator:

* Ensuring Data storage security in cloud computing
* Monitoring online tests through data visualization
* Minimizing Additive Distortion in Images.
* Preprocessing and unsupervised approach for web usage Mining.
* A Novel approach to Social Networking to ensure privacy & malie profit.
* Quality preferences using Ranking Spatial Data.
* Congestion detection and control routing Algorithms in Wireless Sensor Networks.
* Distributed stated Rate information in Multi-Input Multi-Output Network Systems.
* Selfish Overlay network Creation and maintenance.
* Jamming-Aware Traffic Allocation for Multiple-Path Routing Using Portfolio Selection
* Embedded Extended Visual Cryptography Schemes for Secret Image.
* A K-Anonymity privacy –preserving Location Monitoring System for Wireless Sensor Networks.
* Selective Data Stream Blocking Mechanisam for Networks.
* Dynamic Channel Allocation for Wireless Zone Based Multicast and Broad Cast Service.
* Delay Analysis and Optimality of Scheduling Policies for Multi-Hop Wireless Networks.
* Design and performance Analysis of Mobility Management Schemes based on Pointer Forwarding for Wireless Mesh Networks.
* Geographical Routing with location Service in Intermittently connected MANETS
* Cosdes: A Collaborative Spam Detection System with a Novel E-mail Abstraction Scheme
* Adaptive Cluster Distance Bounding for High Dimensional Indexing

Administrative Experience:

* Working as a Principal of Chalapathi Institute of Engineering and Technology from (6th March, 2017 to till date)
* Principal and Coordinator for **NAAC** and **NBA** Accreditation. The Institution was accredited with **NAAC-A Grade** and **NBA for 4 Branches (CSE, ECE, EEE** and **CE)**.
* 100% of admissions are achieved in the Academic Years of 2017-18 and 2018-19.
* Member of Board of Studies in Department of CSE in Acharya Nagarjuna University, Guntur.
* Improved the image and financial position of the institution.

- ❖ Previously worked as a Professor in CSE Dept & Principal, KITS Kodada Engineering College for 2 years
- ❖ Previously worked as a Professor in CSE Dept & Principal, Guntur Engineering College for 2 years
- ❖ Worked as Coordinator for NAAC & NBA Gudlavalleru Engineering College.
- ❖ 2+ years of experience as a Head, Department of CSE in Sri Prakash College of Engineering at Tuni.
- ❖ Involved in faculty recruitment in Computer Science & Engineering, Sir C R R College of Engineering, ELURU and Sir C R R Polytechnic College ELURU.
- ❖ Involved in the process of granting MCA & MBA Courses affiliation of Andhra University at Visakhapatnam for the Sir C R R College of Engineering, ELURU.
- ❖ Involved in Department of Computer Science & Engineering as in-charge 2+ years in Sir C R R College of Engineering Eluru.

Other Duties:

- ❖ Organized and acted as "Techfest Co – Convener" for National Level Symposium in student paper contest & Technical events   like online 'C', Quiz and Product exhibition etc. in the   year, called TECHFEST – 2010 at Sir C.R.R.College of Engineering, Eluru
- ❖ Organized and acted as "Techfest Convener" for National Level Symposium in student paper contest & Technical events   like online 'C', Quiz and Product exhibition etc. in the year, called TECHFEST – 2011 at Sir C.R.R.College of Engineering, Eluru
- ❖ M. Tech Coordinator in Computer Science & Engineering at Sir C R R College of Engineering, Eluru.
- ❖ Examination section In-charge in Department of Computer Science & Engineering year of 2010 - 2012.
- ❖ Organized many workshops and seminars for staff and students.

Areas of Special Interest: Network, Network Security & Database Management Systems

A) **Papers published in International Journals:**

S.No.	Title of the Journal	Journal	ISSN/ISBN NO.	Month & Year	Whether Peer Reviewed. Impact Factor,	No. of Co-authors	Whether You are the main author
01	A Variable Length Data Encryption Technique using Square Grid Transposition with Key Wrapping	IJCSNS International Journal of Computer Science and Network Security		May-2010		3	no
02	A Lightweight Secure Trust-based Localization Scheme for Wireless Sensor Networks	International Journal of Computer Science & Information Security	ISSN 1947-5500	June-2010		2	yes
03	Computational Study of Viral Segments Inserted within the Regions of Human Genome	Journal of Computer Science & Systems Biology	ISSN:0974-7230	2010		2	yes
04	Bioinformatic Approach for the Identification of Hepatitis B Viral Insert in The Exon Region of Human Genome	Journal of Computer Science & Systems Biology	ISSN:0974-7230	2010		2	yes
05	Location Identification in Mobile Wireless Distributed Sensor Networks using Anchor Nodes	International Journal of Computer Science information and Engg., Technologies	ISSN 2277-4408	2011	0.569	2	yes
06	A Python Based Hydrophilicity Plot to Assess the Exposed and Buried Regions of a Protein	Proteomics & Bioinformatics	ISSN:0974-276X	2011		2	yes

07	An Auto adaptive Edge-Detection Algorithm for Flame and Fire Image Processing	International Journal of Computer & Organization Trends (IJCOT)	ISSN: 2249-2593	May-2012	0.421	2	no
08	Robust and Oblivious Watermarking based on Swapping of DCT Coefficients	(IJAIEM)	ISSN 2319 - 4847	July-2013	2.379	3	yes
09	An efficient image reconstruction of with the aid of PSO & DWT	IRECOS	ISSN1828-6003	August-2013	6.14	2	no
10	Improved Password Authentication System against Password attacks for web Applications	(IJCTT)	ISSN: 2231-2803	August-2013	0.569	1	yes
11	Robust and Oblivious Image Watermarking Algorithm Based on Discrete Cosine Transform	International Journal of Computer Science information and Engg., Technologies	ISSN 2277-4408	Feb-2014		3	no
12	A NEW IMAGE RECONSTRUCTION TECHNIQUE WITH AID OF IPSO (IMPROVED PARTICLE SWARM OPTIMIZATION) AND DWT (DISCRETE WAVELET TRANSFORM)	Journal of Theoretical and Applied Information Technology	ISSN: 1992-8645	May-2014		2	no
13	Cross-Domain Search for Policy Anomalies in Firewall	International Journal of Computer Applications	(0975 – 8887)	Oct-2014		2	no

14	An image reconstruction technique based on IPSO-DWT under varying crack	Journal of Intelligent & Fuzzy Systems	ISSN: 1064-1246	2015		3	no
15	Malicious Adversary Decision Making For Complex Infrastructures	(IJITR) INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND RESEARCH	ISSN: 4558-4560.	Nove-2016		2	no
16	Power Quality Improvement by using Fuzzy Logic Controller for SHPF and TCR	I J C T A	ISSN: 2229-6093	2017		4	no
17	Real Time monitoring Application for Physically Challenged Persons using sEMG	International Journal for Modern Trends in Science and Technology (IJMTST)	ISSN: 2455-3778	June - 2017	Yes 3.1	4	no

Publications: Journals: 17

- ❖ " A Lightweight Secure Trust-Based Localization Scheme for Wireless Sensor Networks " (Paper ID: 27051042) Published In IJCSIS Vol. 8 No. 3 June 2010
- ❖ "A Variable Length Data Encryption Technique Using Square Grid Transportation with Key Wrapping" Published In IJCSNS. VOL 10 No.5, May 2010
- ❖ "Computational Study Of Viral Segments Inserted Within The Regions Of Human Genome" Published In Journal Of Computer Science And System Biology
- ❖ Bioinformatics Approach for the Identification of Hepatitis B Viral Insert in the Exon Region of Human Genome" Published In Journal Of Computer Science And System Biology. Volume 3(4)089-090(2010) - 089
- ❖ Location Identification in Mobile Wireless Distributed Sensor Networks using Anchor Nodes. ISSN 2277-4408 (2011)
- ❖ A Python Based Hydrophilicity Plot to Assess the Exposed and Buried Regions of a Protein. volume 4(7), 145-146 (2011)

- ❖ An Auto adaptive Edge-Detection Algorithm for Flame and Fire Image Processing. ISSN: 2249-2593 (May 2012)
- ❖ Robust and Oblivious Watermarking based on Swapping of DCT Coefficients. ISSN 2319 – 4847 (July 2013)
- ❖ An efficient image reconstruction of with the aid of PSO & DWT. ISSN1828-6003 (August 2013)
- ❖ Improved Password Authentication System against Password attacks for web Applications. ISSN: 2231-2803 (August 2013)
- ❖ Robust and Oblivious Image Watermarking Algorithm Based on Discrete Cosine. ISSN 2277-4408 (Feb 2014)
- ❖ A NEW IMAGE RECONSTRUCTION TECHNIQUE WITH AID OF IPSO (IMPROVED PARTICLE SWARM OPTIMIZATION). ISSN: 1992-8645 (May 2014)
- ❖ Cross-Domain Search for Policy Anomalies in Firewall. (0975 – 8887) Oct 2014
- ❖ An image reconstruction technique based on IPSO-DWT under varying crack. ISSN: 1064-1246 (2015)
- ❖ Malicious Adversary Decision Making For Complex Infrastructures. ISSN: 4558-4560. (November 2016)
- ❖ Power Quality Improvement by using Fuzzy Logic Controller for SHPF and TCR. ISSN: 2229-6093 (2017)
- ❖ Real Time monitoring Application for Physically Challenged Persons using sEMG. ISSN: 2455-3778 (June 2017)

International conference papers: 03

- ❖ Hepatitis B Virus X Protein Impedes The DNA Repair
- ❖ Application of Statistical Experimental Design in Citric Acid Production. ISSN 0976 – 1590 Vol. 01 No. 01 January 2010 pp 137-140
- ❖ "Secure Localization with Defense Against Selective Forwarding Attacks in Wireless Sensor Networks" published in IEEE Conference. 978 – 1 – 4214 – 8679 – 3/11/$26.00 @2011 IEEE

C) **Workshops/Seminars/Conferences conducted/attended**

- ❖ Attended five International, and many National conferences, workshops and seminars

<u>DECLARATION</u>

I hereby affirm that the details furnished above are true and correct to the best of my knowledge and belief.

Date: 13-09-2019   Signature

(PANDARINATH POTLURI)

Encl: References

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