

Dr. A. Murali M Rao M.Tech., PhD

**Joint Director
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Profile in Brief

Name : Dr. A. Murali M Rao
Current Position : Joint Director
Organization : Indira Gandhi National Open University, New Delhi, INDIA
working since March 2007
Date of Birth : 05-08-1969
Gender : Male

1) Educational Qualifications

- Ph.D in Computer Science from Central University of Hyderabad, A.P
- M.Tech. in Computer Science from Jawaharlal Nehru Technological University (JNTU), Hyderabad, A.P
- B.Tech. in Computer Science & Engineering from Nagarjuna University, Guntur, A.P

2) Present Position

- Joint Director, Computer Division, IGNOU, working since March 2007

3) Professional Experience (Academic, Research, Technical and Administration) : 20 years

a) Technical (Systems, Networking, Databases and Software Development)

Proficiency in usage of Tools and Technologies in Design, Development, Implementing and Management of Software & Database Systems in a Networked Environment. Done Planning, Designing and Implemented Modern Computing & Network Infrastructure, Technologies and Services at various Organizations.

i) Operating Systems Known and Used

Sun Solaris, UNIX, Linux, Windows and DOS

ii) Programming

Programming done for Software Development using JAVA, C++, C, COBOL, PASCAL, FORTRAN, BASIC languages and Foxbase.

iii) Database Management

SQL, ORACLE and DBASE/FOXBASE

iv) Web Technologies

- WAMP (Windows, Apache, MySQL, PHP)
- LAMP (Linux, Apache, MySQL, PHP) and other Scripting Languages like HTML and other

v) Networking

- Configure and Commissioning of Proxy (SQUID), Domain Name System (DNS), DHCP and FTP Services
- Structured Cabling Network
- VLAN implementation for network segmentation and control.
- Design and Implement modern Computing & Network Infrastructure for any University/Organization

vi) Security

- Management of security devices (Firewall, IPS) and development of Security Policy
- Ensure Multi domain Security (at Network level, System level and Service/Application level)
- Monitoring and Implementation of proactive measures to secure Computing & Network Infrastructure in a network environment.
- Have adequate knowledge in designing of Virtual Private Network using MPLS Technology

vii) IT & Security policy

Developed IT policy that suits for various academic and other organization. System and Network Security policy also developed

b) Academic

- As a *Guest Faculty*, taught various Computer Science subjects at Post-graduation (Ph. D, M.Tech, MBA, MCA and M.Sc) at Central University of Hyderabad, A.P and IGNOU, New Delhi. Special Lectures through Edusat (Gyan Darshan)
- As a *Research Supervisor/Supervisor*, guided many student projects and involved in many academic confidential activities.
- As a *Programme Coordinator*, designed, developed and running an academic programme entitled *PC Hardware and Networking* , since 2010.
- As an *Examiner*, conducted Viva-voce and set question papers for the students of M.Tech, MBA, MCA, MSc, BCA programmes. Answer scripts evaluation also been done accordingly.
- As a *Project Supervisor*, guided many projects for students of M.Tech, MBA and MCA programmes
- As a *Course Writer*, written course material on various topics in the area of Computer Science and on System & Network Security

Some of the Courses Taught

- Computer Networks
- System and Network Security
- Web Technologies
- High Speed Networks
- Data Warehousing & Data Mining
- Algorithms
- Database Management Systems
- Data and File Structures
- Operating Systems
- Programming Languages
- Computer Organization
- System Analysis and Design

c) Research

- As a *Researcher*, working in the area of System & Network Security (Intrusion Detection) and Cloud Computing & Virtualization. Developed a monitoring tool for detection of security violations at System, Network and Application/services domains.
- As a *Research Supervisor*, Guiding Research Scholars and evaluating Doctoral Theses
- As a *Reviewer*, reviewing research papers of various National and International conferences.
- Several papers have been presented on National & International Conference daises on System & Network Security and Cloud Security & Virtualization.
- Have research publications (16) and many are published by IEEE Computer Science, ACM, University Press and other.

Research Project (Funded)

Obtained a funding project on Research topic entitled “*Investigation on Model based Intrusion Detection Approach for Providing Secured Access to University Computing Resources*” from University Grants Commission(UGC) under Major Research Projects Scheme as a Co-Investigator and Prof. Hrushikesh Mohanty, University of Hyderabad as Principal Investigator.

4) Various Committees and Role played

As a Chairman, Convener, Member and Evaluator for various Recruitment selection committees, Admission selection committees, Projects review committees, Doctoral review committee, Projects implementation committees, Distance Education Council(DEC) inspection committees, and many more of the University and other organizations.

5) Administration

As an *Administrator*, administering the Division/Department for smooth functioning of day to day operations at various capacities (Director I/c, Joint Director, Manager and Team Leader).

6) Training & Consultancy

- *As a Trainer*, conducted many training programmes on ICT for Staff at various levels at various organizations. Designed many training programmes and developed training material.
- *As a Consultant* took consultancy to train the teachers of Atomic Energy Educational Society (AEES) and is completed and other projects are in progress.

7) Member, Professional Bodies

Member in the following professional bodies:

- IEEE Computer Society
- IEEE Systems, Man, and Cybernetics Society
- IEEE Technology Management

8) Social Work

As a Volunteer, introduced and implemented many programmes for benefit of the Community such as Literacy Campaign, Job oriented programmes for deprived youth and many more.

9) Research Publications

1. A. Murali M Rao, "The Role of Cloud and Mobile Communications Services in Distance Learning". Accepted in 12th Thinkers & Writers Forum Summit, Skoch Development Foundation scheduled on 28th March 2012 at New Delhi.
2. A. Murali M Rao, " Issues and Challenges in a Cloud Computing Environment". Accepted. To be published in proceedings of International Conference on Computer Applications, ICCA-2012 by ACM. The conference to be held during 27-31, Pondicherry, India, January, 2012.
3. A. Murali M Rao , "ICT in Open Distance Learning: Issues and Challenges". Proceedings of the Sixth Pan-Commonwealth Forum on Open Learning (PCF6), pp 202-203, Kochi, India, 24th – 28th November 2010.
4. A. Murali M Rao , "Digital Library Security: A Layered Approach". Proceedings of International Conference on Digital Libraries, ICDL 2010, pp 1167-1171, Volume 2, New Delhi, 23-26 February, 2010.
5. A. Murali M Rao , "Web-enabled User Support Services System in Distance Learning". Proceedings of International Conference on Interaction Sciences: Information Technology, Culture and Human, ICIS 2009, pp 86-90, The ACM International Conference Proceeding, Vol I, ISBN 978-1-60558-710-3, Seoul, Korea, 24-26 November, 2009.
6. A. Murali M Rao and Hrushiksha Mohanty, "Design Issues of Policy Enforcer to Secure Multi-Domain Environment". Proceedings of International Conference on Information Technology, ICIT-2008, pp 199-200, IEEE Computer Society, IEEE ISBN 978-0-7695-3513-5/08 , Bhubaneswar, December, 2008.
7. A. Murali M Rao and Hrushiksha Mohanty, " A Resource Centric Approach for Detection of Security Violations" . Proceedings of National Conference on Methods and Models in Computing, NCM2C-2008, pp , Jawaharlal Nehru University, New Delhi, December, 2008
8. A. Murali M Rao and Hrushiksha Mohanty, " Policy Enforcer: An Online monitoring Tool for Detection of Security Violations in a Multi Domain Environment". Proceedings of National Conference on Computer Science & Information Technology, CSIT-2008, pp 7-13, Ghaziabad, February 2008.
9. A. Murali M Rao , "Policy-based Approach to Secure Unix Operating System Family". Proceedings of Indian Conference on Intelligent Systems, ICIS-2007, pp 22-29, Chennai, 2007.
10. A. Murali M Rao and Hrushiksha Mohanty, " Policy Manager: A toolkit to Specify and Manage Security Policies". Proceedings of National Conference on Information and Communication Technology, NCICT-2007, pp 197-200, . Thanjavur, Tamilnadu, 2007.

11. A. Murali M Rao , "Policy Specification and Enforcement for Detection of Security Violations in a Mail Service". Proceedings of 9th International Conference on Information Technology, ICIT-2006, pp 172-175, IEEE Computer Society, IEEE ISBN 0-7695-2635-7/06 , Bhubaneswar, India, 2006.
12. A. Murali M Rao and Hrushiksha Mohanty, "Detecting Security Violations: A Policy-based Approach". Proceedings of 1st National Conference on Recent Advances in Computing, NCRAC-2006, pp 327-334, Coimbatore , India, 2006.
13. A. Murali M Rao and Hrushiksha Mohanty, "Intrusion Detection Systems: A Taxonomy". Accepted in CISSE 2006 online E-Conference, 2006.
14. A. Murali M Rao. "A Survey on Intrusion Detection Approaches". Proceedings of 1st International Conference on Information and Communication Technologies, ICICT-2005, pp 233-240, IEEE Computer society, IEEE ISBN 0-7803-9421-6/05, Institute of Business Administration, Karachi, 2005.
15. Murali M Rao and Hrushiksha Mohanty, "Disk Watch Agent of a Distributed Intrusion Detection System". Proceedings of the 7th International Conference on Information Technology, CIT-2004, . University Press, 81-7371-519X, pp 307-316, Hyderabad, 2004.
16. A. Murali M Rao and C. Ravindra Kumar, "Mobile Computing for GIS Applications". Proceedings of the National Conference on Geographic Information Systems, pp 15-20, Acharya N G Ranga Agricultural University, Hyderabad, 2001.

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