



**Prof. (Dr.) M. Abdul Rahiman**  
**Pro Vice Chancellor**  
**Kerala Technological University**

**Prof. M. Abdul Rahiman** is the former **Director, All India Council for Technical Education (AICTE)**, the apex body of technical education under Ministry of Human Resource Development, Government of India which regulates Engineering, Management, Architecture, Hotel Management, Pharmacy

institutions of the country.

He received the Doctor of Philosophy (**Ph.D.**) degree in **Computer Science & Engineering** from Karpagam University. He obtained his Master of Technology from Kerala University in 2004, and Bachelor of Technology from Calicut University 1998. He achieved **Post Graduate Diploma in Human Resource Management** from Kerala University in 2006 & **Master of Business Administration (MBA)** in 2008.

Prof. M Abdul Rahiman, an eminent academician and an able administrator, is the **Pro Vice chancellor of APJ Abdul Kalam Technological University, since September 2014.**

Having joined in AICTE in February 2012 as its Director, he has been at the forefront of bringing in some radical changes for transparency and accountability in its administration through **e-Governance**.

While serving at LBS Institute of Technology for Women, Trivandrum, he was appointed as **Director Vocational Higher Secondary Education to the Government of Kerala**. Vocational Education is designed to prepare skilled work force in middle level in one or more group of occupations trade or job after matriculation at 10+2 stage of Education. The objective of the course is to enhance individual employability and to provide an alternative for those pursuing higher education. It is a distinct stream intended to prepare students for identified occupations. There are 375 VHSE Schools under the Directorate. The administration and control of the entire institution and staff are vested with the Director.

He has initiated many changes for Vocational Education including the syllabus revision and has initiated skill development campaign in schools which is the need of the nation which was inaugurated by Dr APJ Abdul Kalam.

Also rendered his service as **Additional Private Secretary to the Minister for Local Self Government, Kerala, (2001-2004)** where the ministry has the function to control and administration of Local Self Government bodies of the State which consists of 978 Grama Panchayat, 152 Block Panchayat, 14 District Panchayath, 60 Municipal Council and 5 Corporations. KILA(Kerala Institute of Local Administration), Information Kerala Mission(IKM), Kudumbasree (State Poverty Eradication Mission) and Development Authorities are also administered by the Ministry. Thus he has got chance to involve in the study and implementation of many projects in these areas which has got worldwide attention. Ashraya of State Poverty Eradication Mission (KUDUMBASREE) is one among them. Moreover acted as the **Public Relations Officer (PRO) to the Minister**.

He specializes in Digital Image Processing & Pattern Recognition and he taught for more than 10 years having a rich teaching experience and guiding many PhD scholars in the area of DIP, Data Mining and Networking. He has many **international publications** into his credit. Serving as Member of many professional & technical bodies, he has chaired many Technical Conferences. Also serving in the Editorial board of many International Journals. He was instrumental in bringing the TEQIP Project to his parent institute LBSITW Trivandrum with a financial assistance of 10 Crores.

Prof Abdul Rahman was a **Member of National Testing Scheme, a committee constituted by Ministry of HRD** to devise National Testing Scheme. Students emerging from secondary school and seeking admission to professional programs in higher education are required to appear in a multitude of entrance examinations. Ministry of Human Resource Development needs that the multiplicity of examinations needs to be dispensed with and develop a

nationally accepted testing mechanism. The idea of developing a national testing scheme with the oversight of a National Testing Authority has been under consideration of the Ministry of HRD for some time. IITs, NITs, Institutions of National Importance, IIMs, and Central Medical Institutes are conducting their own entrance examinations which are diverse in nature and causes disturbance to students. This committee has been constituted to suggest guidelines for a common test and constitution of National Testing Authority to implement this mechanism.

He was also a **Member of Advisory body of Technical Education UT of Daman Diu, which guides the Technical & Higher Education area.**

He was in charge of e-Governance at AICTE. The e-Governance development at AICTE is a complete web enabled application, where the entire process of receiving the applications to processing the same until an approval is given is on-line. This has greatly improved the transparency and accountability. The Portal also provides complete information along with video of more than 11500 institutions in the public domain. The Business intelligence reports generated provides for comprehensive statistics on technical education in the country. The development using Oracle-Siebel CRM is extremely robust and scalable providing for several features that aid the student and the teacher community.

Prof. Abdul Rahman is also associated with **National Vocational Education Qualification frame work** which would help in promoting skill based competency modules to be integrated into eight certification levels where a student can undergo skill based learning that enhances employability and employment opportunities and also allowing him/her the flexibility to pursue formal education or take up an appropriate job at the end of any level of certification.

He headed the **Internal Audit Department of AICTE**, which provides the right path for spending the government funds. Under his leadership, Internal Audit Cell developed a **Audit Manual first time in the history of AICTE.**

He also associated with **Prime Minister's Scholarship Scheme for the State of Jammu & Kashmir** with the aim to encourage the youth of J&K to pursue higher studies throughout the country and mingle different cultures and thus bringing them to the integral part of the Country.

Dr Abdul Rahman is instrumental in bringing AICTE office to Kerala. Moreover, **DBT (Direct Benefit Transfer) Scheme is introduced in AICTE for disbursement of Scholarships** with the active participation of Rahman. This was appreciated by the Ministry. While delivering his speech in the inauguration of Siddhi 2020, a skill development program of VHSE Kerala, Dr APJ Abdul Kalam mentioned "Abdul Rahman is the most energetic and dynamic Director of VHSE". Dr Rahman treats this as the best award, he has achieved in his life. (Please visit <http://www.youtube.com/watch?v=Zikgb8l1i-0>).

## Educational Qualifications

<b>B.Tech</b>	<b>: Computer Science &amp; Engineering – Calicut University</b>
<b>M.Tech</b>	<b>: Computer Science – Kerala University</b>
<b>MBA</b>	<b>: Systems – Madhurai Kamaraj University</b>
<b>PGDHRM</b>	<b>: PG Diploma in Human Resource Management- Kerala Uty</b>
<b>PhD</b>	<b>: Computer Science &amp; Engg, Karpagam University</b>

## Previous Positions

- Member •** National Testing Scheme, Ministry of Human Resource Development, Govt of India.
- Member •** GB, Daman & Diu Technical Education
- Director •** All India Council for Technical Education (AICTE), Ministry of HRD, Govt of India
- Director •** Vocational Higher Secondary Education, Government of Kerala.
- Additional Private Secretary to Minister •** Ministry of Local Self Government, Govt of Kerala

## On LIEN

**Professor** • Department of Computer Science & Engineering, LBS Institute of Technology for Women (Government of Kerala)Trivandrum, Kerala.

## Books Published

**M Abdul Rahman, "Automated Recognition of Handwritten Malayalam Characters", Lap Lambert Academic Publishing, January 2014, ISSN 978-3-659-52184-3**

## Technical Publications

1. M Abdul Rahiman and M S Rajasree, "A Wavelet Based Recognition System for Printed Malayalam Characters", *International Journal of Recent Trends in Engineering IJRTE*, Academy Publishers, Finland, Vol 2, November 2009. (ISSN 1797-9617)
2. M Abdul Rahiman and M S Rajasree, "An HCR System for Combinational Malayalam Handwritten Characters based on HLH Patterns", *International Journal of Computer Applications, (IJCA)*, USA, Vol 8, No 11, pp 19-23 October 2010. (ISSN 0975-8887).
3. M Abdul Rahiman and M S Rajasree, "An Efficient Character Recognition System for Handwritten Malayalam characters based on Intensity variations", *International Journal of Computer Theory and Engineering, (IJCTE)*, USA, Vol 3, No 3, pp 19-23 June 2011. (ISSN: 1793-821X).
4. Abdul Rahiman and M S Rajasree, "Recognition of Simple and Conjunct Handwritten Malayalam Characters Using LCPA Algorithm", *Communications in Computer and Information Science Series (CCIS)*, pp. 304--314. Springer, Heidelberg ISSN 1865:0929
5. M Abdul Rahiman and M S Rajasree, "An Efficient Character Recognition System for Combinational Handwritten Malayalam Characters", *Procedia Engineering*, ELSEVIER (ISSN: 1877-7058).
6. M Abdul Rahiman and M S Rajasree, "Handwritten Malayalam Character recognition using Line count and Positional Analyzer Algorithm", *Indian Journal of Technical Education, ISTE*, India, Vol 35, No 4, December 2012. (ISSN 0971-3034)
7. M Abdul Rahiman et al, "Code Aware Dynamic Source routing for Distributed Sensor Networks", *International Journal of Network Security & its applications (IJNSA)*, Vol 5, No 2, March 2013. (ISSN : 0974 - 9330[Online]; 0975 - 2307 [Print])
8. Abdul Rahiman M, Diana Varghese & Manoj Kumar G, "HABIT: Handwritten Analysis Based Individualistic Traits Prediction", *International Journal of Image Processing (IJIP)*, Volume (7) : Issue (2), pp 209-218, pp 117-124, April 2013, *CSC Journals*, Malaysia.(ISSN : 1958-2304)
9. M Abdul Rahiman and K Revathy "Machine recognition of printed Malayalam characters using wavelets", in *Proceedings of the Second IAPR International workshop on Pattern recognition in Bioinformatics (PRIB 2007)*, Singapore, October 2007. ISBN 978- 981-05-8924-0 (**Springer**)
10. M Abdul Rahiman and M S Rajasree, "Printed Malayalam Character Recognition Using Back-propagation Neural Networks", in *Proceedings of the IEEE International Conference Advanced Computing (IACC '09)*, Thapar University, Patiala, 5-6 March 2009, pp 197-201. (**IEEE Xplore**) ISBN 978-1-4244-2927-1.
11. M Abdul Rahiman and M S Rajasree, "A Detailed Study and Analysis of OCR Research in South Indian Scripts", in *Proceedings of the International Conference on Advances in Recent Technologies in Communication and Computing (ARTCom 2009)*, Kottayam, 27- 28 October 2009, pp 31-38. ISBN 978-0-7695-3845-7. (**IEEE Xplore**).
12. M Abdul Rahiman and M S Rajasree, "OCR for Malayalam Scripts using neural networks", *Proceedings of International Conference on Ultra Modern Telecommunications, ICUMT 2009, St Petersburg, Russia, 12-14 Oct. 2009 pp 1 – 6. (IEEE Xplore)*.
13. M Abdul Rahiman and M S Rajasree, "Isolated handwritten Malayalam character recognition using HLH intensity patterns", *International Conference on Machine Learning and Computing*, (ICMLC 2010) Bangalore, pp 147-151, Feb 26-28, 2010 (**IEEE Xplore**). ISBN: 978-0-695-3977-5
14. Abdul Rahiman and M S Rajasree, "An Efficient Character Recognition System for Combinational Handwritten Malayalam characters", *International Conference on Computer & Electrical Engineering*, (ICCEE 2010) Chengdu, China, Nov 16-18, 2010 (**IEEE X-plore**). ISBN: 978-1-4244-7224-6

15. Abdul Rahiman and M S Rajasree, "Recognition of Handwritten Malayalam Characters using Vertical & Horizontal Line Positional Analyzer Algorithm", in *Proceedings of International Conference on Electronics Computer Technology (ICECT 2011)*, Kanyakumari, India, April 8-10 2011. **(IEEE X-plore)** ISBN: 978-1-4244-8677-9.
16. Abdul Rahiman and M S Rajasree, "Bilingual OCR System for Printed Documents in Malayalam and English", in *Proceedings of International Conference on Electronics Computer Technology (ICECT 2011)*, Kanyakumari, India, April 8-10 2011. **(IEEE X-plore)** ISBN: 978-1-4244-677-9.
17. Abdul Rahiman and M S Rajasree, "Automated Object Recognition and Pattern Matching Analysis of Runways using Surface Track Data", in *Proceedings of International Conference on Electronics Computer Technology (ICECT 2011)*, Kanyakumari, India, April 8-10 2011. **(IEEE X-plore)** ISBN: 978-1-4244-8677-9.
18. M. Abdul Rahman, Jain Nishant and Dubey Arun Kumar, "Code Aware Dynamic Source Routing for Distributed Sensor Network", International Conference on Communication Systems and Network Technologies (CSNT-2013), Gwalior, India, 6-8 April 2013 : **(IEEE X-plore)** ISBN 978-1-4673-5603-9
19. M Abdul Rahiman and K Revathy "Machine recognition of printed Malayalam characters using multi resolution analysis and back propagation neural networks" , in *Proceedings of the National Conference on Mathematical and Computational Models (NCMCM 2007)*, Coimbatore, December 2007.
20. M Abdul Rahiman and Ramesh U, "Technical Education in India: A Swot analysis based on the prevailing scenario", *Indian Journal of Technical Education, ISTE, India, Vol 38, No 4, May 2014. (ISSN 0971-3034)*
21. M Abdul Rahiman and Ramesh U, "To Transform the Learning and Teaching Process in Engineering Education", *International Research Journal for Intellectual Science and Management, India, Vol 2, January 2014. (ISSN 2320-656X)*
22. M Abdul Rahiman and Ramesh U, "Technical Education: Challenges with special reference to Kerala", *Yojana, Ministry of Info & Boadcasting, Govt of India, 2015*
23. M Abdul Rahiman and Deepambika V , "Stereo Correspondence Algorithms for Robotic Applications Under Ideal And Non Ideal Lighting Conditions", *International Journal of Image Processing (IJIP), Volume (9) : Issue (3) : 2015, pp 89-101.*
24. Amritha Sekhar, Manoj Kumar G., Prof. (Dr.) M. Abdul Rahiman, "A Study on Network Steganography Methods", *International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), May 2015 Volume 3 Issue 5 ,ISSN: 2321-8169, pp: 2750 – 2754*
25. M Abdul Rahiman and Ramesh U, "Scope and Challenges of Technical Education: A Kerala Perspective", *Higher Education for the Future, SAGE, Vol 2, Issue 2, July 2015.*
26. Sarika.S , Deepambika V.A ,M.Abdul Rahman, "Census Filtering Based Stereomatching Under Varying Radiometric Conditions", *Second International Symposium on Computer Vision and the Internet (VisionNet'15), Procedia Computer Science, Vol 58,, Elsevier, August 2015,pp 315-320.*
27. Resmi H B, Deepambika V.A ,M.Abdul Rahman, "Symmetric Mask Wavelet Based Detection and Tracking of Moving Objects Using Variance Method", *Second International Symposium on Computer Vision and the Internet (VisionNet'15), Procedia Computer Science, Vol 58,, Elsevier, August 2015,pp 58-*
28. Resmi H B, Deepambika V A, M Abdul Rahman, "Lifting based DWT for Object Tracking Using Variance Method", *International Journal of Engineering and Advanced Technology (IJEAT) Volume-4, Issue-6, ISSN: 2249 – 8958.*
29. Amritha Sekhar , Manoj Kumar G & Prof. (Dr.) M. Abdul Rahiman, "A novel approach for hiding data in videos using network steganography methods", *International Journal of Wireless & Mobile Networks (IJWMN) Vol. 7, No. 4, August 2015*

## Recognitions

**Doctoral Research Guide for Ph.D. (Tech) of University of Kerala.**

**Doctoral Research Guide for Ph.D. (Tech) at Karpagam University**

## Research Scholars

### University of Kerala

1. Surya, Associate Professor, College of Engg Karunagapally-

2. Rahna Kalam, Full Time Research Scholar, LBSCST

### **Karpagam University**

1. Mr Manoj Kumar, LBSITW Poojappura
2. Deepa M, College of Engg Munnar
3. Sreelatha S H, LBT Trivandrum
4. Sheeba, LBS CE Kasaragod
5. Smitha Vas P, LBSITW Poojappura

### **Expert Reviewer**

**Editorial Board Member**, International Journal of Computer & Electrical Engineering (IJCEE).

**Editor**, International Journal of Computer Science & Emerging Technologies (IJCSET).

**Editorial Board Member**, International Journal of Computer Theory & Engg (IJCTE)

**Review Board Member**, International Journal of Computer Applications (IJCA)

### **Memberships**

- Life Member, ISTE (Indian Society for Technical Education).
- Member, CSI (Computer Society of India).
- Member, International Association of Computer & Information Technology, Singapore.
- Member, Academy & Industry Research Collaboration Centre.
- Member, International Association of Educators for World Peace.
- Member, The International Association of Engineers (IAENG).
- Member Editorial Board, International Journal of Computer & Electrical Engineering (IJCEE).
- Editor, International Journal of Computer Science & Emerging Technologies (IJCSET).
- Editorial Board Member, International Journal of Computer Theory & Engineering (IJCTE)
- Review Board Member, International Journal of Computer Applications. (IJCA)
- Member, The Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (ICST). Belgium

### **Conferences Chaired**

- Co Chair, IEEE International Conference on Bio-Inspired Computing and Communications, 2009, Saint Petersburg, Russia.
- International Programme Committee Member, International Conference on Advances in Computing and Communications (ACC-2011), Kochi
- Session Chair, International Conference on Advances in Recent Technologies in Communication and Computing (ARTCom 2009), Kottayam.

### **R&D and Consultancy**

- Chief Coordinator, Kerala BEd Entrance Examination Processing -2005
- Chief Coordinator, Research & Enhanced Education Forum, LBS Institute of Tech for Women,
- Chief Coordinator, Option Facilitation & Guidance Centre, Kerala Engg & Med Entrance in LBSITW.
- Chief Superintendent, UPSC Engg Services Examination –July 2009 & July 2010
- Chief Superintendent, UPSC Civil Services Examination –May 2010.
- Chief Superintendent, UPSC National Defense Examination –April 2011.
- Co Coordinator, TEQIP in LBSITW in 2011.

### **Contact @**

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