

# Dr. K V Pramod

Associate Professor

Department of Computer Applications

Cochin University of Science and Technology (CUSAT)

<b>Experience Summary</b>	<ul style="list-style-type: none"><li>➤ Working as Associate Professor, Department of Computer Applications at Cochin University of Science and Technology(CUSAT), Cochin, Kerala</li><li>➤ Worked as Computer Programmer, National Technical Manpower Information System, Ministry of Human Resource and Development, Govt. of India. (1989 -1999)</li></ul>
<b>Other Present Roles</b>	<ul style="list-style-type: none"><li>➤ <b>Chairman of Board of Studies in Computer Applications</b>, Cochin University of Science &amp; Technology (2005 onwards)</li><li>➤ <b>Member of Faculty of Technology</b>, Cochin University of Science &amp; Technology (2005 onwards)</li><li>➤ <b>Member of Academic Council</b>, Cochin University of Science &amp; Technology (2005 onwards)</li><li>➤ <b>Member of NSS Advisory Committee</b>, Cochin University of Science &amp; Technology (2005 onwards)</li><li>➤ <b>Member of Board of studies in Computer Science</b>, University of Kerala</li><li>➤ <b>Member of Scrutiny Committee</b> for purchase of Computers and Accessories, Cochin University of Science &amp; Technology</li><li>➤ <b>Member of Staff Council</b>, Cochin University of Science &amp; Technology for two consecutive terms 2008-09, 2009-10 and 2012</li></ul>
<b>Other Past Roles</b>	<ul style="list-style-type: none"><li>➤ <b>Head of the Department of Computer Applications</b>, Cochin University of Science &amp; Technology (From May 2001 to April 2004 and June 2007 to June 2013)</li><li>➤ <b>Member of Senate</b>, Cochin University of Science &amp; Technology (2011-2012)</li><li>➤ <b>Member of Academic Committee</b> for framing courses, preparing syllabus and study materials for IT Mission Courses of Calicut</li></ul>

	University
<b>Education</b>	<ul style="list-style-type: none"> <li>➤ <b>Doctor of Philosophy</b> from Cochin University of Science &amp; Technology (CUSAT), Kerala, India</li> <li>➤ <b>M.Sc Mathematics</b> from University of Kerala, Kerala, India</li> <li>➤ <b>B.Sc Mathematics</b> from University of Kerala, Kerala, India</li> </ul>
<b>Research</b>	<ul style="list-style-type: none"> <li>➤ <b>Guidance ( PhD )</b> Recognized as research guide in Faculty of Science and Faculty of Technology of Cochin University of Science and Technology</li> <li>➤ <b>Area of Interest</b> <ul style="list-style-type: none"> <li>❖ Simulation and Modeling</li> <li>❖ Cryptography and Network security</li> <li>❖ Mathematical Morphology</li> <li>❖ Database Management</li> <li>❖ Data Mining</li> <li>❖ Image Processing</li> <li>❖ Language computing</li> <li>❖ Cyber Forensics</li> </ul> </li> <li>➤ <b>PhD Completed Under the Guidance</b> <ol style="list-style-type: none"> <li>(1) Ramkumar P B, "A Study of Morphological Operators With Applications", (2011 )</li> <li>(2) Manju C, "Algebraic Geometric Codes and their Relation to Cryptography using Elliptic curves", (2012)</li> <li>(3) Shine N Das, "Design and Development of Efficient Classification Schemes for Web Content Mining", (2013)</li> <li>(4) Jomy John, "Pattern Analysis Techniques for the Recognition of Unconstrained Handwritten Malayalam Character Images", (2014)</li> <li>(5) Srikrishnan S, "Software Risk Management in Information Systems Offshoring and Outsourcing", (2014)</li> </ol> </li> <li>➤ <b>PhD Undergoing Under the Guidance</b> <ol style="list-style-type: none"> <li>(1) Aneurin Salim A.L, "Cyber Security"</li> <li>(2) Binu Jacob, "Data Mining in location based services"</li> </ol> </li> </ul>

	<p>(3) Arumughavelan S, " Building Automatic Innovative General Efficient Neural Network and Pattern matching model applied to medical imaging in health care"</p> <p>(4) Krishnakumar M, "An Efficient Approach for Multilingual Content Retrieval from Long Digital Audio Files Using Vocal Query"</p> <p>(5) Indukala Ramanath, "Applying Cognitive load theory to Computer Science Education in Schools"</p> <p>(6) Unnikrishnan K, "Implementation - Issues of Temporal Databases"</p> <p>(7) Vijith T K, "A Unified Approach for Detection of Image Manipulation using Metadata Analysis"</p> <p>(8) Soumya S, "Sentiment Analysis for Malayalam Language"</p> <p>(9) Rajesh Kumar R, "Medical Image Processing"</p> <p>(10) Bindu J S, "Land Cover Problem using Satellite Images"</p>
<p><b>Publications</b></p>	<p>➤ <b>International Journals</b></p> <p>(1) Geethu, R. S., Krishnakumar, M., <b>Pramod, K. V.</b>, &amp; George, S. N. "Source Separation of Heartbeat Sounds for Effective E-Auscultation." Journal of The Institution of Engineers (India): Series B 97.1 (2016): 69-75.</p> <p>(2) Krishna Kumar, M., R. S. Geethu, and <b>K. V. Pramod.</b> "Performance of Source Separation Algorithm on Ground Borne Low Level Vibration Signals." Hydrel Journal 60 (2014): 48-54.</p> <p>(3) Krishna Kumar, M., <b>K. V. Pramod</b>, and R. S. Geethu. "A Scheme to Improve the Effectiveness of Auscultation." Science, Technology and Management: 35. Vol.-07, No.-01, March 2014., ISSN:0974-8334.</p> <p>(4) Smiju Sudevan, M.Bhasi and <b>K.V.Pramod.</b> "Comparative Reassessment of Two Common Software Project Management Methodologies", Indian Journal of Social Development ISSN:0972-3692, Vol.13, No. 2, December 2013.</p> <p>(5) Sundararajan, Srikrishnan, M. Bhasi, and <b>K. Pramod.</b> "An empirical study of industry practices in software development risk management." International Journal of</p>

Scientific and Research Publications 3.6 (2013): 1.

- (6) Jomy, John, Kannan Balakrishnan, and **K. V. Pramod**. "A System for Offline Recognition of Handwritten Characters in Malayalam Script." *International Journal of Image, Graphics and Signal Processing* 5.4 (2013): 53.
- (7) John, Jomy, **K. V. Pramod**, and Kannan Balakrishnan. "Unconstrained handwritten Malayalam character recognition using wavelet transform and support vector machine classifier." *Procedia Engineering* 30 (2012): 598-605.
- (8) John, Jomy, Kannan Balakrishnan, and **K. V. Pramod**. "Malayalam character recognition system for camera enabled mobile devices." *International Journal of Advanced Research in Computer Science* 3.7 (2012).
- (9) Das, Shine N., Midhun Mathew, and **Pramod K. Vijayaraghavan**. "An Approach for optimal feature subset selection using a new term weighting Scheme and mutual information." *International Journal on Advanced Science, Engineering and Information Technology* 1.3 (2011): 273-278.
- (10) Shine N Das, Midhun Mathew & **Pramod KV**, "A Hybrid method of Feature Subset Selection for Web page Classification by Eliminating Noise" ", *International Journal of Computational Intelligence and Information Security (IJCIIS)* - Volume 2, No. 8 (2011), Page 105-114.
- (11) Krishna Kumar, M., **K. V. Pramod**, and R. S. Geethu. "A Low Cost Scheme for Tracking the Lives Buried in Landslides." *IJCA*, 2011.
- (12) Krishna Kumar M., **Pramod K. V.**, Geethu R.S., " Source Separation of Heartbeat Sounds" , *MES JTM*,ISSN 0976-3724, Vol1, No 02 PP-65-71,2011
- (13) Ramkumar P B and **K V Pramod**, "Mathematical Morphology & Concept of Energy : A Different view" , *International Journal. of Engineering Science & Technology*, Vol.3, No.8, 2011.
- (14) Ramkumar, P. B., and **K. V. Pramod**. "Morphological Space And Transform Systems." *International Journal of Scientific and Engineering Research* 2.4 (2011): 62-66.
- (15) Mathew, Midhun, Shine N. Das, and **Pramod K.**

**Vijayaraghavan.** "A novel approach for near-duplicate detection of Web pages using TDW matrix." International Journal of Computer Applications 19.7 (2011): 16-21.

(16) Ramkumar, P. B., and **K. V. Pramod.** "Generalized Algebraic Structure for Mathematical Morphology." International Journal of Computer Applications 16.6 (2011): 38-41.

(17) Ramkumar, P. B., and **K. V. Pramod.** "Mathematical Morphology and Fractal Geometry." Global Journal of Science Frontier Research 11.6 (2011).

(18) Ramkumar P B and K.V.Pramod, "Morphological Adjunctions , Moore Family And Morphological Transforms", Journal of Theoretical and Applied Information Technology, Vol.31, No.2, Sept.2011

(19) Ramkumar P B and **K V Pramod.** "Morphological operators and Generalized Adjunctions". International Journal of Engineering Science and Technology, Volume 3, No.8 ,August 2011.

(20) Ramkumar, P. B., and **K. V. Pramod.** "Convex Geometry and Mathematical Morphology in a Generalized Structure." International Journal of Computer Applications 6.3 (2010): 1-6.

(21) **K V Pramod** and Manju C. " A Cryptosystem using the concepts of Algebraic Geometric code" Journal of Computer Science, Science Publications Vol.6, No.3, 244-249, March 2010

(22) Unnikrishnan K, **K.V Pramod,** "On Implementing Joins, Aggregates and Universal Quantifier in Temporal Databases using SQL Standards", International Journal of Recent Trends in Engineering (Computer Science), [ISSN: 1797-9617], Academy Publishers, Finland, November 2009 pp. 43-46

(23) **Pramod, K. V.,** and M. J. Vedan. "Long-wave propagation in water with bottom discontinuity." International journal of non-linear mechanics 27.2 (1992): 197-201.

(24) **Pramod, K. V.,** et al. "Integrability study and numerical analysis of a Korteweg-de Vries equation with variable coefficients." International Journal of Non-Linear Mechanics 24.5 (1989): 431-439.

➤ **Conference**

- (1) Jino P J, Vijith T K, Kannan Balakrishnan, **Pramod K V**, "Cyber Security Policy Model for Academic Institutions- A Case Study" Poster presentation in 103rd Indian Science Congress, held during 3-7, January 2016 at Mysore, Karnataka
- (2) Krishna Kumar M., Geethu R S, **Pramod K V**, "A Scheme for Source Separation of Ground Borne Vibrations" , 2014 IEEE International Conference on Communication and Network Technologies, Mepco Schlenk Engineering College, Sivakasi, Tamilnadu, India ,December 18-19, 2014
- (3) Krishna Kumar M., Geethu R S, **Pramod K V**, "Source Separation of Ground Borne Low Level Vibration Signals Using Statistical Methods", International Conference on Advances in Computing, Communication and Information Science (ACCIS-,,14), Elsevier Publications 2014, pp (389-403) ISBN: 9789351072478
- (4) Jomy John, Kannan Balakrishnan, **Pramod K. V.**, " Grouping scheme for the recognition of handwritten Malayalam vowels consonants compound characters and vowel-consonant signs", IEEE International Conference on Communication and Signal Processing, 2013.
- (5) Jomy John, **Pramod K. V**, Kannan Balakrishnan, "Offline Handwritten Malayalam Character Recognition Based on Chain Code Histogram" , IEEE International Conference on Emerging Trends in Electrical and Computer Technology , Kanyakumari, March 23 - 24, 2011
- (6) Simily Joseph, Jomy John, Kannan Balakrishnan, **Pramod K. V**, "Content Based Image Retrieval System for Malayalam Handwritten Characters", IEEE International Conference on Network and Computer Science, Kanyakumari, April 8-10, 2011
- (7) Krishna Kumar M., **Pramod K. V.**, Geethu R.S., "A Life Tracking System based on Audio Source Separation." Proc.IETE Zonal seminar on Networking Paradigms and Cyber Security, Coimbatore 2010.
- (8) Manju C. and **K.V.Pramod** "Security issues on Cryptosystem based on Algebraic Geometric code using Elliptic Curves." IEEE-CSI Proceedings on "National Conference on Information and Software Engineering 2010. held at Aarupadaiveedu Institute of

	<p>Technology, Feb.26, 2010</p> <p>(9) Unnikrishnan K, <b>K.V Pramod</b>, "On Implementing Temporal Coalescing in Temporal Databases Implemented on Top of Relational Databases" in Proc. Of International Conference on Advances in Computing, Communication and Control (ICAC3'09), Mumbai, India, Jan 23-24, 2009, ISBN ACM 978-1-60558-351-8 Online Available in ACM Digital Library, pp 153-156</p> <p>(10) Binu Jacob , <b>K V Pramod</b>, "Change Sequence Mining for Interdependent Context Aware Service Processes Using Partial Derivatives" IEEE Proceedings of International Symposium on "Innovations in Natural Computing (INC 09)" organized by Dept. of Computer Applications, CUSAT , during 12th &amp; 13th Dec.2009.</p> <p>(11) <b>K.V.Pramod</b> , A. Sreekumar, "Uniform Secret sharing scheme for (n , n) threshold using Visual Cryptography" Proceedings of National seminar on "Image Processing and Cryptography" held at Sree Saraswathi Thyagaraja College, Pollachi. 8th March, 2008.</p> <p>➤ <b>Technical Article in Computer Science Magazine</b></p> <p>(1) Vijith T K, <b>Pramod K V</b>, " The Role of Cyber Forensics in Legal and Ethical Aspects of Cyberspace", Cover Story, CSI Communications on topic Digital Forensics, March, 2016</p>
<p><b>Programs Organized</b></p>	<p>➤ <b>General Chair</b>, National Conference on Indian Language Computing (NCILC-2016,2015,2014,2013,2012,2011), Organized by Department of Computer Applications, Cochin University of Science and Technology (CUSAT), 26-27 February 2016</p> <p>➤ <b>Co-ordinator</b>, Five day Workshop on "Graph Algorithms and Computer Applications" during December 08-12, 2014, Organized by Department of Computer Applications, Cochin University of Science &amp; Technology</p> <p>➤ <b>General Chair</b>, International Conference on Natural Computing (INC09), Organized by Department of Computer Applications, Cochin University of Science and Technology (CUSAT)</p>

<p><b>Invited Talk/ Resource Person/Confe rence Chair</b></p>	<ul style="list-style-type: none"> <li>➤ <b>Session Chair</b>, 12<sup>th</sup> International Conference on Intelligent Systems Design and Applications, Organized by Department of Computer Science, Cochin University of Science and Technology (CUSAT), 27-29 November 2012</li> <li>➤ <b>Session Chair</b>, International Conference on Web Services Computing (ICWSC 2011), Organized by SCMS, Cochin, 14-14 October 2011</li> </ul>
<p><b>Contact Details</b></p>	<ul style="list-style-type: none"> <li>➤ <b>Address</b>  <p style="margin-left: 40px;">Dr. K V Pramod, Associate Professor, Department of Computer Applications, Cochin University of Science and Technology (CUSAT), Cochin - 682022, Kerala, India</p> </li> <li>➤ <b>Phone</b>  <p style="margin-left: 40px;">(O) +91 484 2577602 (M) +91 9895044162</p> </li> <li>➤ <b>Email</b>  <p style="margin-left: 40px;">(O) pramod_k_v@cusat.ac.in (P) prmodkv4@gmail.com</p> </li> <li>➤ <b>URL</b>  <p style="margin-left: 40px;"><a href="http://dca.cusat.ac.in/">http://dca.cusat.ac.in/</a></p> </li> </ul>

**Date: 25-08-2016**