

SRINIVAS CENTRE FOR RESEARCH IN ENERGY MANAGEMENT



Dr. P. S. Aithal



Prof. Sridhar Acharya

The research focuses on the energy challenges in India, the cause and the effects of the same in economic development, and sustainability. Energy is the building block of the life. Energy needs, production, consumption and sustainable development are critical issues to ensure India's economic growth. Looking at Indian scenario the sustainability in energy production and consumption is larger compared to Organization for economic co-operation and Development (OECD) countries. This research focuses on efficient production and use of renewable energy using the sustainable long term energy sources like bright sunlight, wind blow, the wave and tides near the sea shore. Here the importance is given in producing the energy at a local level and using the same at a very efficient way to improve Indian economy.

Publication:

1. P. Sridhar Acharya and P. S. Aithal, "Innovations in Effective Management of Energy using Green Technology", International Journal of Conceptions on Management and Social Sciences Vol. 3, Issue. 2, April 2015, pp. 18 - 22, ISSN: 2357 2787.
2. P. Sridhar Acharya and P. S. Aithal, "Innovations in Effective Management of Energy using Green Technology", Proceedings of WARICO International Conference on Emerging Trends in Engineering, Technology & Science (ICETETS April 2015) held on 2nd & 4th April, 2015 in Malla Reddy Institute of Engineering and Technology, Secunderabad, India
3. P. Sridhar Acharya and P.S. Aithal, Innovations in effective management of Energy using Green Technology, International Conference in Quality through Innovation, Anna University 19-20 Feb 2015.
4. P. Sridhar Acharya & P. S. Aithal Techniques for Electric Energy Auditing in Education System Proceedings of National conference Recent Advances in IT, Management and Social Sciences, Manegma - 2015, Mangalore on 23rd April, 2015, ISBN No. 978-81-929306-6-4.
5. Sridhar Acharya P. & Aithal, P.S. (2016). [Concepts of Ideal Electric Energy System for production, distribution and utilization](http://doi.org/10.5281/zenodo.161143), *International Journal of Management, IT and Engineering (IJMIE)*, 6(1), 367-379, (January 2016), ISSN: 2249-0558, I.F. 6. 269. DOI: <http://doi.org/10.5281/zenodo.161143>

6. P. Sridhar Acharya & P. S. Aithal, [Impact of Green Energy on Global Warming - A Changing Scenario](#), *International Journal of Scientific Research and Modern Education (IJSRME)*, ISSN (Online): 2455 – 5630, (www.rdmodernresearch.com), 1(1), (2016), 838-842. DOI: <http://doi.org/10.5281/zenodo.154575>

7. Sridhar Acharya, P. & Aithal, P. S. (2016). Clean Energy for Poor – A Changing Scenario. *International Journal of Advanced Trends in Engineering and Technology (IJATET)*, Impact Factor: 5.665, ISSN (Online): 2456 - 4664 (www.dvpublication.com), 1(1), 129-133 DOI: <http://doi.org/10.5281/zenodo.240287> <https://www.academia.edu/30895131>.
2014

8. P. Sridhara Acharya, A study on changing trends in power sector special effect on Domestic Appliances in National conference on Changing trends in Management, IT, and Social sciences, Manegma 2014, Mangalore, 09/04/2014, ISBN No. 978-81-929306-0-2, (2014).

9. P. Sridhara Acharya, Optimum Management of Electrical Energy Using Renewable Energy Resource Concentrating on Rural India, MANEGMA 2013- Proceedings of National Conference on Sustainable Growth in Developing Economies, Manegma 2013 held at Srinivas Institute of Management Studies, Mangalore on 12/04/2013

Working Papers

- Electricity from Microbial Fuel cell- Challenges in Implementing this Cell in Rural India
- Challenges in Combining the energy produced by various renewable energy resources especially in rural area.
- Challenges in implementing the renewable energy resources in rural area
- Factors effecting the performance of the renewable energy resources and challenges in improving the efficiencies of the same.
- Optimization of the energy generated from renewable energy resources with the traditional energy supplies

BIOMETRIC IDENTIFICATION USING FACE AND VOICE



Krishna Prasad K

The rapid growth of information and communication technology resulted in abundant data and information growth in every field with the necessity for high data security. Face recognition is one of the types of unique biometrics measure related to human characteristics, which can be used for identification or authentication purpose as individual's claimed identity. Face recognition system acquired great scope for the fast few years in image processing for the security purposes including identification and verification process, due to its applications in various domains like crime detection, banking and defence. Voice recognition is identifying the person using his spoken words or by analysing speech signals. Citi Bank of America introduced voice recognition for its mobile banking services. Face and voice biometrics can be used for various identification and verification system in various fields with special reference to online banking transactions.

Publications:

1. Krishna Prasad K. & Dr. Aithal, P.S. (2016). [The Growth of 4G Technologies in India- Challenges and Opportunities](http://doi.org/10.5281/zenodo.161130). International Journal of Management, IT and Engineering (IJMIE),6(1), 543 - 551, (January 2016) ISSN: 2249-0558, I.F. 5. 299. DOI: <http://doi.org/10.5281/zenodo.161130>
2. Sridhar Acharya P & Krishna Prasad K. (2016). Modification in The Design of ECU of a Motor Vehicle to Control the Speed Depending on the Density of Vehicle. International Journal of Scientific Research and Modern Education (IJSRME),1(1), 2016, 270-274. ISSN: 2455 – 5630.
3. K. Krishna Prasad (2016).An Empirical Study on role of Vedic Mathematics in Improving the Speed of Basic Mathematical Operations.International Journal of Management, IT and Engineering, 6(1),161-171(January 2016) ISSN: 2249-0558
4. K. Krishna Prasad (2016).A Conceptual Study on Changing Perspective of Information Technology Enabled Employment Services Through Freelance Jobs,International Journal of Engineering Research and Modern Education (IJERME),1(1), 709-714(August,2016), ISSN (Online): 2455 – 4200

5. Krishna Prasad K. & Dr. Aithal, P. S. (2016). Changing Perspectives of Mobile Information Communication Technologies towards Customized And Secured Services Through 5G & 6G. International Journal of Engineering Research and Modern Education (IJERME), ISSN (Online): 2455 - 4200 (www.rdmodernresearch.com) 1(2), 2016, 210-224

6. Krishna Prasad, K. & Aithal, P. S. (2016). An Online Comparative Study on 4G Technologies Service Providers in India. International Journal of Advanced Trends in Engineering and Technology (IJATET). Impact Factor: 5.665, ISSN (Online): 2456 - 4664 (www.dvpublication.com), 1(1), 96-101. DOI :<http://doi.org/10.5281/zenodo.240269>.
<https://www.academia.edu/30895106>

7. K. Krishna Prasad, Blog based Self Verification and Self-development Curriculum Model - A Novel Approach to Student Centric Learning, Curriculum Design and Development for Student – Centric Learning, SIMS, Mangalore, India. (March 2016), ISBN No.: 978-81-929306-9-5

8. Pradeep M. D., Krishna Prasad K., Modern Paradigm shift in Social Work Profession through Technology- New Dimension in Social Work Education. Curriculum Design and Development for Student – Centric Learning, SIMS, Mangalore, India. (March 2016), ISBN No.: 978-81-929306-9-5

9. K. Krishna Prasad (2016). A Conceptual Study on Changing Perspective of Information Technology enabled Employment Services through Freelance Jobs. The Changing Perspectives of Management, IT and Social Sciences in the Contemporary Environment, SIMS, Mangalore, India. (May, 2016), ISBN No.: 978-93-5265-653-0

10. K. Krishna Prasad, P. S. Aithal, An Online Comparative Study On 4g Technologies Service Providers In India, Innovations and Transformations in Banking, Management, IT, Education and Social Sciences, (August, 2016), ISBN No.: 978-93-5265-656-1.

11. K. Krishna Prasad, P. S. Aithal, A Customized And Flexible Ideal Mobile Banking System Using 5g Technology, Innovations and Transformations in Banking, Management, IT, Education and Social Sciences, (August, 2016), ISBN No.: 978-93-5265-656-1.

12. K. Krishna Prasad & Dr. P.S. Aithal, A Literature Survey On Face Recognition Techniques: Applications To User Identification And Verification Process. Current Developments in Computer Science, IT & its Impact on Management, Social Sciences and Education. (November 2016), ISBN No.: 978-93-5265-655-4

Working Papers

1. A literature Survey on Voice Biometric Recognition
2. A literature survey on Mobile biometrics using Audio and video
3. A study on Mobile Biometrics as Training and Test Database for face and voice identification/verification.
4. A study on LBP and PCA based face Recognition algorithms.
5. A study on various Biometrics traits for Person Verification or Identification.
6. A literature survey on changing trends in Mobile Banking System.

7. A study on different types on vulnerabilities and threats in Mobile Banking system.
8. A study on MATLAB as a powerful Research Testing Tool.
9. A study on Multimodal Biometrics Identification For higher securities
10. A literature survey on OTP based security Systems.

R & D – CENTRE FOR DATABASE TECHNOLOGY



Vaikunth Pai

This Centre is an interdisciplinary research centre focusing on large-scale data analysis and database application projects. It conducts fundamental research in the computational analysis of massive data sets that arise in various scientific and industrial applications. The projects stem from diverse areas, for example, Disease Analytics and bioinformatics projects using Databases, Data Mining and Predictive Analytics

Publications:

1. VaikunthPai (2016). ADO And ADO.Net Database Access Technology Comparisons. International Journal of Current Research and Modern Education(IJCRME), 1(1), 262-268, (May 2016), ISSN: 2455 – 5428.
2. VaikunthPai (2016). Big Data New Challenges, Tools and Techniques. International Journal of Engineering Research and Modern Education (IJERME), 1(1), 743-750,(August, 2016), ISSN (Online): 2455 – 4200
3. Shylesh&VaikuntPai (2016). A Study of E-Learning: Indian Perspective. International Journal of Engineering Research and Modern Education (IJERME),(www.rdmodernresearch.com) 1(2), 155-159, 2016, ISSN (Online): 2455 – 4200
4. Shylesh&VaikuntPai, Use of Windows Presentation Foundation and WindowsForms In Windows Application Programming. International Journal of Advanced Trends in Engineering and Technology (IJATET). Impact Factor: 5.665, ISSN(Online): 2456 - 4664 (www.dvpublication.com), 1(1), 138-141.

Working Papers

- Big data tools and Languages
- Big Data and Cloud Computing for Bigger Transformation.

CACHE MANAGEMENT IN HIGH PERFORMANCE COMPUTING



Mr. Subrahmanya Bhat

High performance Computing(HPC) is the technical term used for solving the large problems with the help of high end systems. Because of the technological advancements in the architectures of System Processors, chips with Dual, Quad cores have been deployed and released in the market. Cache is the memory built in to these processor chips which needs to improve the system performance. Cache management in multi core systems is really a challenging task, as one needs to address issues like level of cache sharing in multi core architecture, cost in embedding dedicated cache for each cores, cost in maintaining the coherency among the cache contents against the performance factor in overall computing.

Publication:

1. SubrahmanyaBhat B and Dr. K.R Kamath, Cache Hierarchy In Modern Processors And Its Impact On Computing, International Journal of Management, IT and Engineering (IJMIE), Volume 5, Issue 7, pp. 248-253, (July 2015), ISSN: 2249-0558, I.F. 5. 299.
2. SubrahmanyaBhat and Dr. K. R Kamath, Snoopy Protocol for Cache Coherency in MultiCore Systems for High Performance Computation, International Journal of Management, Volume 6, Issue 1, PP. 459-463 (January 2016) ISSN: 2249-0558.
3. SubrahmanyaBhat& Dr. K. R. Kamath, Directory Based Cache Coherency Protocol In Multi-Core System For High Performance Computation, International Journal of Current Research and Modern Education (IJCRME) Volume I, Issue I, pp. 257-261, (May 2016), ISSN : 2455 – 5428.
4. SubrahmanyaBhat& Dr. K. R. Kamath, Effective Learning With Usage of Simulators – A Case of Nctuns Simulator In Computer Networks, International journal of Scientific Research and Modern Education, Volume I, Issue I, pp. 415-420 (June 2016) ISSN-2455 – 5630.
5. SubrahmanyaBhat& K. R. Kamath, Directory Organizations in Cache Coherency Systems for High Performance Computation, International Journal of Current Research and

Modern Education (IJCRME), Volume I, Issue I, p.p 868-871, (August,2016), ISSN (Online):2455 – 5428

Working Papers:

- Optimization Approaches in Directory based Cache Coherency Systems for High Performance Computation.
- Directory Based Cache Coherency, organization, Operations and Challenges in Implementation- study.
- Effect of “Locality of Reference” in Directory Organization towards improving Cache Coherency implementation.

SRINIVAS CENTRE FOR WEB DEVELOPMENT AND SECURITY



S. Shylesh

There is a huge disconnect between security professionals and systems developers. Security professionals are primarily concerned with the security of a system, while developers are primarily concerned with building a system that works. While security is The World Wide Web, more commonly known as the Web, is increasingly pervading every aspect of our lives. In the 15 years since the Web came into existence, our lives and work have been inexorably changed. It has dramatically influenced us in several ways and has

Publications:

1. S. Shylesh & VaikuntPai, “Use of Windows Presentation Foundation and Windows Forms in Windows Application Programming”, International Journal of Advanced Trends in Engineering and Technology, Page Number 138-141, Volume 1, Issue 1, 2016.

Working Papers

- Security Testing of Web Applications: Issues and Challenges
- A guide for selecting Content Management System for Web Application Development