

■ **Birthday Celebration of Hon. Shri Balasaheb D. Wagh**

Hon. Balasaheb D. Wagh, Chairman of K. K. Wagh Education Society completed his 80 years of age on 19th October 2012. On this day he was felicitated by Chief guest Hon. Dr. Sudhir Tambe (MLC). For this function Hon. Pratapdada Sonawane (MP), Smt. Nilimatai Pawar (Sarchitnis, MVP, Nashik), Mrs. Shakuntalatai Wagh, Shri. Uttamrao Dhikale (MLA), Shri. Nitin Bhosale (MLA), Shri. Anil Kadam (MLA) were present. All trustees Principals and all staff members of K. K. Wagh Education Society were present for giving best wishes to the Chairman.



Birthday Celebration of Hon. Chairman of K.K.Wagh Education Society Shri. Balasaheb Wagh on 19th October 2012.

■ **Expert Lecture By Shri. N.A. Joshi On "Energy Scenario"**



Lecture by Shri. N. A. Joshi

An expert lecture by Shri. N. A. Joshi, An advisory committee member of our Institute was organized on 5th October 2012 on the topic "Energy Scenario". In his lecture he emphasized on proper utilization of nonconventional energy resources and the future

demand of energy and its savings. On this occasion Principal Dr. K. N. Nandurkar, all staff and students were present. The demo by student groups of IEEE student Awareness Contest was also organized after the lecture.



Demo by student

■ **Advisory Committee Meeting**

An Advisory Committee meeting was held on 6th October 2012 in the New Meeting Hall of Institute. An advisory Committee Chairman Shri. Vivek Sawant and other members Prof. B. M. Naik, Dr. D. G. Hapse, Prof. U. N. Gaitonde and Shri. N. A. Joshi were present. Hon. President Shri. Balasaheb Wagh, K. K. Wagh Education Society felicitated Shri. Vivek Sawant and all other committee members. Trustee Shri. D. S. Shinde, Secretary Prof. K. S. Bandi, all Principals, Heads and senior staff of various Institutes of K. K. Wagh Education Society were present for meeting.



Advisory Committee Meeting

Expert Lecture by Dr. Madhavrao Chitale on "Indian Youth In Views Of Swami Vivekananda's Vision"

An expert lecture by Dr. Madhavrao Chitale (Recipient of Stockholm Water Prize) was organized in the Institute on Topic "Role of Indian youth according to Swami Vivekananda's Vision". In his speech he focused on affinity of Swami Vivekananda towards the Nation for the overall development of the Nation and Indian youth. On this occasion Hon. Chairman of K. K. Wagh Education Society Shri. Balasaheb Wagh felicitated the Chief Guest. Trustee Shri. Changdevdada Holkar, Secretary Shri. K. S. Bandi, Principal Dr. K. N. Nandurkar, all staff of the Institute were present. On this occasion the Seminar Hall of Chemical Engineering department was inaugurated and named as Dr. P. C. Ray Hall at the auspicious hands of Chief guest Dr. Madhavrao Chitale. Dr. P. C. Ray was the General President of Indian Science Congress Association in the year 1920. Famous Indian scientists like Meghnad Saha and Shanti Swarup Bhatnagar were among his students. He set up the first chemical factory in India, with very minimal resource, working from his home. In 1901, this pioneering effort resulted in the formation of Bengal Chemical and Pharmaceutical Works Ltd.



Inauguration of Seminar Hall of Chemical Engineering Department by Hon. Dr. Madhavrao Chitale.

VB.NET Mini Project Competition

VB.Net mini Project Competition under Debugger's club of Computer Engineering Department was organized on 6th October 2012 for TE Computer Engineering Students. Total 10 teams participated in the Competition and Prof. Rupali Bora from IT department and Prof. Mohini Patil from K. K. Wagh women's Polytechnic were the judges for the same. The event was coordinated by Prof. I. Priyadarshani and Prof. Vrushali Patil. A team of Saket Joshi, Shounak Gujarathi and Akshay Lahe bagged a first prize of

Rs. 750/- for the project topic on Remote Shop Management System and second prize of Rs. 500/- was bagged by Nikhil Lahoti, Ajinkya Mhaskar, Mohammed Jamali, Fahad Anjum's team for the project topic on ProLink. All the students from TE Computer Engineering actively participated in the Competition.

Poster Presentation Competition

Poster presentation competition for Second year Computer Engineering student was organized under Debuggers Club of Computer Department on 6th October 2012 by Prof. Chaitali Patil under the guidance of Dr. Prof. S. S. Sane. The theme for poster was "Any Technical Topic". Total 18 groups from SE B division had participated for the same. Prof. Archana Nehete from Department of MCA, KKWIEER judged the event. Ms. Nisha Sonawane (SE B) was a first winner for a Topic on "Let's Do LESS" and Ms. Charushila Mahale (SE B) was Runner up for a Topic on "Tools to browse website offline".



Poster presentation competition for Second year Computer Engineering student on 6th October 2012

The Volleyball (Boys) Interzonal tournament was organized at our Institute during 20th - 21st October 2012. It was inaugurated by the hands of Trustee Shri. D. S. Shinde on 20th October 2012. In this tournament teams of Nashik zone, Pune city, Pune district, and Nagar Zone were participated.



Volleyball (Boys) Tournament inaugurated by Trustee Shri. D. S. Shinde

Local Managing Committee Meeting

Local Managing Committee meeting was held on 27th October 2012 in Board Meeting Room, 5th Flr., Central Office. Local Managing Committee members Dr. Omprakash Kulkarni and other members Dr. K. N. Nandurkar, Prof. Dr. Mrs. Preeti Bhamre, Prof. Venkat Mane, Shri. Suhas Gaidhani, were present. Hon. President Shri. Balasaheb Wagh, K. K. Wagh Education Society, Hon. Shri. Ashok R. Merchant Trustee K. K. Wagh Education Society were present for meeting.



Local Managing Committee Meeting

It was suggested that in order to develop the research culture, institute should start with low budget proposals. Some scrap material can be obtained from nearby industry for experimental purpose. A joint proposal with interested industry to this effect for the purpose of research funding should be made. Various domestic and foreign industries extend technical and financial support to educational institutions and we can tap these resources.

Books Purchased in Central Library : October 2012

Sr.No.	Name of Dept.	Total No. of Books purchased
1.	Computer Engg.	68
2.	M.E. Computer Engineering	26
3.	E & T C	15
4.	Electrical Engg.	151
5.	Production Engg.	04
6.	Mechanical Engg.	26
7.	Civil Engg.	03
8.	Information technology	20
9.	Chemical Engg.	20
10.	Math/science	05
11.	Management studies	25
12.	M. E. Production	02
13.	M. E. Computer	25
14.	M. E. Electronics	03
15.	Mechanical Engg. (2 nd shift)	20
16.	Electronics Engg. (2 nd shift)	36
17.	Electrical Engg. (2 nd shift)	15

Expert Lecture/Seminar/Courses/Worshop Organized:

- Department of Management studies organized an expert lecture on 'Management Functioning' on 6th October 2012 and "Life skill of Manager" on 13th October 2012 by Mr. Mangesh Natal. Same department also organized expert lecture on Attitude building by Mrs. Nandita Ray on 13th October 2012.

Industrial Visits Organized by Department For Students:

Date	Class	Name of Company
14/10/2012	MBA II Year	Mahindra & Mahindra, Satpur, Nashik

Training & Placement :

Name of the Department	Name of Company	No. of students selected
Computer Engg.	PSPL, Pune	08
Information Technology	PSPL, Pune	01

CONGRATULATIONS



Prof. Dr. Mrs. Preeti Bhamre, Head of IT Department received "Lady Engineer Award" by Institution of Engineers, India, Nashik Local Centre on 6th October 2012 at the hands of Shri. Rajendra Singh, Waterman of India.

Other Achievements

- Principal Dr. K. N. Nandurkar attended one day 'Orientation programme for NBA Evaluators and stakeholders' on 26th October 2012 at MIT COE, Pune.

Abstracts Of Papers Presented By Staff during October 2012:

Identification of String Instruments Using Spectral Features

Prof. Dinesh M. Chandwadkar and Prof. Smt. Manisha P. Satone

(Presented at Annual Technical Paper Meet 2012, Organised by IEI, Pune Local Centre, in Oct 2012. The paper is published in the 36th Annual Technical Journal of IEI Pune Local Centre (ISBN number '978-81-924990-0-0).

Abstract:- A study on identification of three string instruments Santoor, Sarod and Sitar is presented in this paper. A methodology with feature extraction and evaluation is proposed and assessed with a number of experiments, whose final stage is to detect instruments using isolated notes played by these instruments. Identification is done using machine learning techniques. Selection of effective feature set and proper classifier is a challenging task in problems where machine learning techniques are used. A set of

features is evaluated for recognition of these instruments out of monophonic musical signals. Aiming to achieve a compact representation, the adopted features regard only spectral characteristics of sound and are limited in number. Various classification methods are implemented and tested. Over a dataset of 99 notes from these three musical instruments, Multilayer Perceptron (MLP) and Sequential Minimal Optimization Algorithm (SMO) show comparable results with success rates close to 98% of successful classifications.

■ Forged Image Regions Detection using Motion Blur Discrepancies

Prof. Rupali M. Bora & Prof. N. M. Shahane

(Presented at National Conference organized by Institution of Engineers, Pune local center on 21st October 2012)

Abstract:- Images can be easily manipulated for malicious purposes due to broad availability of photo exploitation software. One such form of tampering is image splicing. Various methods have been proposed for detection of such splicing. To detect splicing in images by searching discrepancies in motion blur is one type of method for forgery detection. The motion blur estimation is using image gradients to detect inconsistencies between the spliced region and the rest of the image. A Blur Estimate Measure (BEM) is used to aid in inconsistent region segmentation in images that contain small amounts of motion blur and a no-reference Perceptual Blur Metric (PBM) has been used to detect directional motion blurs in images. Based on these measures the regions of the images are identified with consistent and inconsistent blurs. The effect of motion blur inconsistencies and region separation is achieved using K-means clustering algorithm.

Keywords: Image gradient, image forgery detection, motion blur estimation, Blur Estimate Measure, Perceptual Blur Metric, K-means algorithm.

■ Effect of shading on photovoltaic (PV) arrays and global power point tracking

Prof. S. G. Pachpande

(Presented at National Conference organized by Institution of Engineers, Pune local center on 21st October 2012)

Abstract:- Renewable energy sources play an important role in electricity generation as well as in reducing the cost per unit. Energy from the sun ie Solar energy is the best option for electricity generation as it is available everywhere and is free. The Photovoltaic (PV) is used to convert the Solar energy into electrical energy and it can generate 1 to 2 watt energy. For generating more energy PV cell is connected in an array. Normally the panel is installed on the roof of the building, for the maximum solar energy. The characteristics of the PV

system show single maxima on the PV characteristic. But at the shaded condition the Photovoltaic (PV) system will show the multiple maximum points on the PV characteristic. This paper studies the effect of shading on the PV array and on the Maximum Power Point tracking (MPPT). Also study the need of Global power point (GPP) tracking.

Keywords:- Photovoltaic (PV), Maximum Power Point Tracker (MPPT), Global Power Point (GPP), single maxima, multiple maxima.

■ A K-Anonymity confidentiality defending locality examining scheme for wireless networks with jacking secure system

Prof. Darshan V. Medhane

(Presented at National Conference organized by Institution of Engineers, Pune local center on 21st October 2012)

Abstract:- Anonymizing wireless networks permit users to access services confidentially with the help of a series of routers in order to conceal the IP address of the client from the server. As a result, administrators block all known exit nodes of anonymizing network, denying anonymous access to misbehaving. To address this problem, servers can "blacklist" misbehaving users, by this means blocking users devoid of compromising their anonymity. Monitoring personal locations with a potentially untrusted server poses privacy threats to the monitored individuals; a privacy-preserving location monitoring system for wireless networks is adopted. Two in-network location anonymization algorithms are considered, namely, resource and quality-aware algorithms that intend to facilitate the system in order to offer high-quality position monitoring services for system users, while preserving personal location privacy. Both algorithms rely on the well established k-anonymity privacy concept, that is, a person is indistinguishable among k persons, to permit trusted wireless nodes to provide the aggregate location information of monitored persons. Each aggregate location is in a form of a monitored area A along with the number of monitored persons residing in A, where A contains at least k persons. The main aim behind use of resource-aware algorithm is to minimize computational cost and communication cost, while the quality-aware algorithm aims to maximize the accuracy of the aggregate locations by minimizing their monitored areas. To make use of the aggregate position information and to provide location monitoring services, a spatial histogram approach is used that estimates the distribution of the monitored persons based on the gathered aggregate position information. Then, the estimated distribution is used to provide position monitoring services through answering range queries.

Prof. Dr. K. N. Nandurkar
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