



**K.K. Wagh Education Society's
K.K. Wagh Institute of Engineering
Education and Research, Nashik.**

July 2022

Vol. : 14
Issue : 7

Anniversary Program



Felicitation of Chief Guest Hon Shri Rahul Aher (MLA) Joint Death anniversary of Late Padmashree Kakasaheb Wagh, Late Tatyasaheb Boraste and Late Kakusheth Udeshi was organized in the institute on 22nd July 2022. For the program Hon Sudhir Tambe (MLC), Hon Rahul Aher (MLA) and Dr. Dilip Dhondage, Ex Principal, Arts Science College Satana were invited as Chief guests. Hon Chairman of K. K. Wagh Education Society Shri Sameer Wagh felicitated to the chief guest. All the guest appreciated the development of K. K. Wagh Education Society. For the program Trustee Ashokbhai Merchant, Shri Changdevdada Holkar, Smt Shakuntalatai Wagh, Mr Ajinkya Wagh, Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, all Principals, Heads of department and staff of various Colleges of K. K. Wagh Education Society were present.

Advisory Committee Meeting



Advisory committee meeting

The advisory committee meeting of our institute was organized on 2nd July 2022. For the meeting an Advisory committee member Dr U. N. Gaitonde and Shri. D. M. More were present. On this occasion Chairman of K. K. Wagh Education Society felicitated to both the members of an Advisory committee. In this meeting the progress of various institutes was presented. Also the initiatives done by the faculty like use of Learnico, courses developed on Udeemy platform, videos lectures developed etc were presented during the meeting. All advisory committee members appreciated the initiative taken by the faculty and institute for Teaching Learning process. For the meeting Hon Chairman Shri Sameer Wagh, Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, Principals, Heads of department and staff of various Colleges and Schools were present.

Expert Lecture on "Examination System in Autonomous Institute"



New examination centre was inaugurated by the hands of Prof. Mahesh Kakade, Director (Board of Examination & Evaluation, SPPU)

An expert talk on "Examination System in Autonomous Institute" was organized in the institute on 21st July 2022. The Speaker was Prof. Mahesh Kakade, Director (Board of Examination & Evaluation, SPPU). On this occasion New examination centre was

inaugurated at the hands of Dr. Kakade. During the speech of Dr Kakade he explained what precautions to be taken for the examination systems in Autonomy. For the lecture Secretary Prof. K. S. Bandi, Mr. Ajinkya Wagh, Principal Dr. K. N. Nandurkar, Principals of various Colleges of K. K. Wagh Education Society, Heads of department and staff were present.



Felicitation of Prof. Mahesh Kakade by Mr Ajinkya Wagh

■ Micro Project Competition



Inauguration of Microproject Competition



Visit by Hon Chairman Shri Sameer Wagh

Micro project competition based on the topic selected for PBL was arranged for FE students. Inauguration of the competition was done at the hands of Principal Dr. K. N. Nandurkar. The FE students of all branches participated in this competition. Hon. Chairman, Shri. Sameer Wagh visited the competition and motivated the students. The prizes were given in prize distribution ceremony at the hands of Principal Dr. K. N. Nandurkar. All heads of department, project coordinators, staff and all the students of FE visited the competitions.

■ Inaugural function of MHT-CET Crash Course



Felicitation 41 Students admitted in K.K.W.I.E.E.R, through MHTCET Crash Course-2021-22

Crash course for MHT - CET examination was organized for 12th science students from 1st to 30th July 2022 by the faculty of Science department. It was inaugurated on 1st July 2022. Around 68 students were registered for the said crash course.

■ Death Anniversary of Late Kakusheth Udeshi



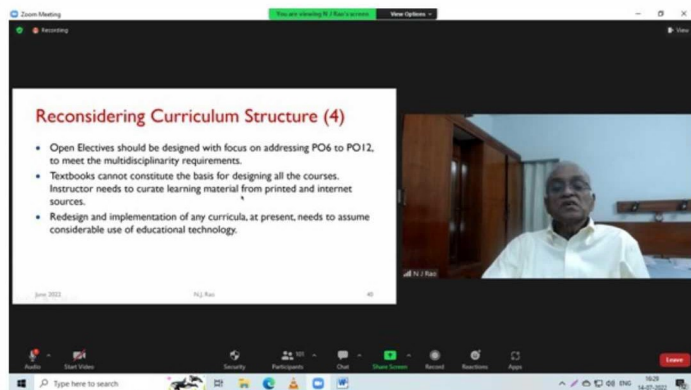
Death anniversary of Late Kakusheth Udeshi

On 9th July 2022, on occasion of Death anniversary of Late Kakusheth Udeshi, the staff of the institute paid their tributes to the departed soul and expressed their gratitude on behalf of the institute.

■ An online expert talk on “Autonomy and NEP Implementation”

An online expert talk on “Autonomy and NEP Implementation” was organized by the institute on 12th & 14th July 2022. Resource person was Prof. N. J. Rao from IISc., Bengaluru. All staff members of the institute attended the said expert talk.

continued on page 3



Expert talk by Prof. N. J. Rao

■ CII-CEO Connect



Mr. Arvind Mahapatra addressing to Students

CII- CEO Connect was organised by Industry – Academia Connect panel of CII, Maharashtra state in blended mode. Speaker was Mr. Arvind Mahapatra Founder Director, Netwin Info solutions Pvt. Ltd, Nashik. Staff members and TE/BE students attended the said program. Principal Dr. K. N. Nandurkar felicitated to Mr. Arvind Mahapatra on this occasion. Mr Mahapatra explained his journey as a first generation entrepreneur and the lessons learned at various stages of starting the enterprise.

■ MOU with Maharashtra Chamber of Commerce, Industry and Agriculture (MCCIA)

The institute sign the MoU with Maharashtra Chamber of Commerce, Industry and Agriculture (MCCIA). MoU includes Industry Connect Program on 25th July 2022 for 200 students as well as innovation and industry readiness Program for 15 faculty members of our institute.

■ Expert Lecture/Seminar/Courses/Workshop Conducted:

- FDP on "Embedded product design" was organized by AICTE IDEA lab of our institute. The said FDP involved both hands - on and sessions by experts during 18th to 22nd July 2022.
- Awareness session on initiatives for innovation, entrepreneurship and start-up by the Ministry of Education was organized in the institute for all staff. Institute coordinators for these initiatives delivered the sessions for all teaching staff on 18th to 19th July 2022.
- An expert session on 'Converting innovation into start-up' was organised by Institution's Innovation Council (IIC) of our institute on 27th

July 2022. Speaker was Shri. Puneet Raman, Founder & Director, Prowisdom Growth Private Limited.

- Dept. of Information Technology organized an online session on "Industry readiness through Final year projects" by Mr. Anil Wale, Project Lead, Persistent Systems, Pune on 23rd July 2022 for TE and BE IT students. Institution's Innovation Council (IIC) in association with I Teron club of Information Technology department also organized an online session on "Process of Innovation Development and Technology Readiness Level" by Mr. Mohan Kulkarni, Director, Claypine Ltd., Ireland on 30th July 2022 for TE and BE IT students.

■ Expert Lecture/Seminar/Courses/Workshop Attended:

- Computer Engineering staff Prof. D. M. Kanade attended Industry Training at Y2B Secure Cyber Security Solution Nashik, Pune from 13th to 21st July 2022. Prof. Dr. S. M. Kamalapur and Prof. P. P. Vaidya have attended FDP on "Machine Learning" organized by SIT, Lonavala on 29th July 2022. Prof. S. T. Patil and Prof. P. D. Rakibe have attended FDP on "Design and Analysis of Algorithms" organized by Modern CoE, Pune on 29th July 2022. Prof. M. P. Mahajan have attended One Week Faculty Development Program on "Recent Trends in Computations" organized by VIT Pune from 18th to 23rd July 2022.
- Chemical Engineering Staff Prof T. B. Mahale attended FDP on "Sustainable Manufacturing Management" organized by Dr. D Y Patil College of Engineering, Akurdi, Pune from 11th to 15th July 2022.
- Prof. Shilpa Mene, Prof. Rupali Bora and Prof. Smita Chaudhari participated in online one week Faculty Development Program (FDP) on "Recent Trends in Computations" from 18th to 23rd July 2022 organized by Department of Computer Engineering, VIT, Pune. Prof. Yogita P. Shewale participated in Faculty Orientation Program on "ELECTIVE-IV-Introduction to DevOps" of BE Information Technology (2019 course) on 28th July 2022 in association with Board of Studies–Information Technology, Savitribai Phule Pune University, Pune organized by International Institute of Information Technology (I²IT), Pune. Prof. Nagama Kazzi participated in Faculty Orientation Program on "Information Storage and Retrieval and Lab Practice III" of BE

continued on page 4



Information Technology (2019 course) on 27th July 2022 in association with Board of Studies–Information Technology, Savitribai Phule Pune University, Pune organized by D. Y. Patil College of Engineering, Akurdi, Pune.

■ Congratulations

Alumnus (2017-18 batch) of Civil Engineering Department, Mr. Suyash Lunawat was felicitated by the Institute for his contribution to the society by developing iOS Application 'Anne' for deaf and blind people in Association with Apple Academy Italy.

■ Congratulations

Mr. Chetan Deokar, alumnus of E&TC department of our institute was felicitated by the Institute for his European Patent grant on "Power Network Device"

■ Other Achievements

- Hon. Chairman of K. K. Wagh Education Society Shri Sameer Wagh, Principal Dr. K. N. Nandurkar and Head of IT department Prof. Dr. P. D. Bhamre attended the IUCEE leadership summit 2022 at International Centre Goa during July 8 – 10, 2022.

■ Abstracts of papers presented during July 2022

Novel data dimensionality reduction approach using static threshold, minimum projection error and minimum redundancy

Prof. Satish S. Banait & Prof. Dr. S. S. Sane
(Paper published in Asian Journal of Organic & Medicinal Chemistry)

Abstract: Dimensionality reduction is an important mechanism to remove redundant and unused attributes from the dataset. Feature selection and feature extraction are key techniques that have been used for dimensionality reduction. A novel hybrid approach named Minimum Projection error Minimum Redundancy (MPeMR) has also been formulated in the literature to improve dimensionality reduction further. In this work, Threshold value is defined to select a combination of features based on Normalized Projection Error (NPe) value. After feature extraction, correlation coefficient and variance techniques are applied for feature subset selection. In this research work we proposed Semi Feature Minimum Projection error Minimum Redundancy (S-MPeMR) algorithm in which feature selection and feature extraction methods are used to generate compound feature set using semi features. For feature extraction MPeMR technique is used, wherein initially semi features are extracted using NPe technique by checking orthogonality among selected original features and combination of features. As against to MPeMR in the proposed S-MPeMR algorithm two novel schemes are used namely, 1) NPe checking based on static threshold value 2) NPe checking based on dataset specific threshold value. In order to validate the proposed

algorithm, K-means clustering technique is used to evaluate clustering quality of selected feature subset. Five datasets viz. Ecoli, Abalone, Movement Libras, Yeast, and Waveform Isolate, and Segment are used for performance evaluation. The K-means algorithm is supplied with these five datasets before and after applying Principal Component Analysis (PCA) technique. As compared to the existing MPeMR algorithm, the proposed S-MPeMR algorithm yields high clustering quality.

Keywords: Normalized Projection Error (NPe), Semi Feature Minimum Projection error Minimum Redundancy (S-MPeMR), Dimensionality Reduction, Feature Extraction, Feature Selection, K-means, Principal Component Analysis (PCA).

■ Evolutionary instance and feature selection using lsh-is and pearson correlation coefficient in big data environment

Prof. Satish S. Banait & Prof. Dr. S. S. Sane
(Paper published in journal entitled Stochastic Modeling & Applications)

Abstract: A huge amount of data is produced with the evolution of modern technologies. This high-throughput data generation results in Big Data, which consist of many features (attributes). Storing and processing large and varied datasets (known as big data) is challenging to do in real time. In machine learning, streaming feature selection has always been considered a superior technique for selecting the relevant subset features from highly dimensional data and thus reducing learning complexity. Instance and Feature selection has been a key research area in data mining, which chooses a subset of relevant features for use in model building. This paper aims to provide an overview of instance and feature selection methods for big data mining. It first discusses the current challenges and difficulties faced when mining valuable information from big data. Instance and feature selection has become an effective approach due to enormous data which is continuously being produced in the field of research. It is difficult to process such large datasets by many systems. Though the traditional techniques are useful for large datasets, the numbers when in hundreds, thousands or millions face scaling problems. The proposed work focuses on, scalable instance and feature selection in big data environment. Locality-sensitive hashing instance selection (LSH-IS) is a two pass method used to find similar instances along with Pearson correlation coefficient for feature selection. Hash function family is used which is a general method of reducing the size of a set; this is achieved by re-indexing the elements into buckets. This process find similar instance in same bucket, hence instance can be reduced. The work aims at improving the performance of locality sensitive hashing by storing additional information of the instances and features assigned of each class in the bucket and also to improve accuracy of instance and feature selection algorithm.

Keywords: Big data, data reduction, hashing, locality sensitive hashing, instance selection, feature selection

Prof. Dr. K. N. Nandurkar
PRINCIPAL

