



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

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■ **Inauguration of Autonomous Vehicles Club**



Inauguration of Autonomous Vehicle Club

The inaugural function of Autonomous vehicles Club of KKWIEE & R and seminar on "Electric Vehicle Design-Challenges & Opportunities" was conducted on 6th April 2018. Prof. Kishor Munshi, former head of Industrial Design Centre, IIT Bombay inaugurated the club. On this occasion Prof. Dr. K. N. Nandurkar, Principal KKWIEE & R delivered the welcome speech. Prof. Jadhav J. S., Coordinator of Autonomous Vehicles Club briefed the audience about Objectives and Activities to be undertaken in future by the club. He mentioned that the club has brought the "BeeTRIKE" an Electric vehicle from ECOEV India Pvt., Ltd., for understanding structure, functioning and various systems in Electrical vehicles. In near future, club is planning to indigenously manufacture three electric vehicles for various purposes especially for the rural applications. He also encouraged the students to participate in various National Level competitions on Electric vehicles like SAE Effi-cycle and Robocon. Mr. Suresh Kolhe, Special invitee addressed the audience of Autonomous vehicle club and shared the "Do it yourself" tips for Vehicle maintenance. The students from Team Vector demonstrated their "Shuttle Cock Throwing Bot" in front of

dignitaries and Audience. Prof. Kishor Munshi, then delivered the seminar on "Electric Vehicle Design- challenges and opportunities". He said "All should learn from our past 10-12 years experience in Electric vehicle design and its commercialization". He also offered to work in collaboration for future endeavors in the domain of electric vehicles undertaken by our Autonomous vehicles club. He discussed the potential ideas for Electric vehicle demonstration in the society like use of Electric boats in Godavari River etc. Prof. M. B. Murugkar (Prof. & Head Mechanical dept), Prof. Jain (Electrical Dept.), Prof. Kale, Prof. Khartad, Prof. Waghchaure, other staff members and students of various departments participated and got benefit.

■ **Inauguration of Study Abroad Cell in our Institute**

Study Abroad Cell was inaugurated on 6th April 2018 in Dr A P J Abdul Kalam Career Development Center of our institute at the hands of Mr Amit Gore, Director Akshay Study Abroad in presence of Principal Dr. K. N. Nandurkar, TPO Dr. P. K. Shahabadkar, Mr Sandeep Wagh and large number of Students. On this occasion MoU was also signed between our institute and Akshay Study Abroad. The objective of this Study Abroad Cell is to provide opportunities to our students for exploring Higher Education and career options abroad. Principal Dr. K. N. Nandurkar said, through this Study Abroad Cell a platform will be provided for the interactions between students and K K Wagh Alumni staying in USA, UK and other countries. Mr Amit Gore, Director Akshay Study Abroad assured all the cooperation in organizing expert talks for making the students aware about opportunities in Abroad. Dr. P. K. Shahabadkar proposed vote of thanks.



Signing of MoU between K K Wagh IEER and Akshay Study Abroad

■ **Celebration of 127th Birth Anniversary of Dr. Babasaheb Ambedkar**

SC/ST Cell of our institute celebrated Dr. Babasaheb Ambedkar Jayanti on 14th April 2018 in college campus. The function started by Principal Prof. Dr. Keshav N. Nandurkar by inspiring Inaugural speech by putting light on early life of Dr. Babasaheb Ambedkar and spoke about the difficulties Babasaheb faced when he was a student. He further said that, despite fewer resources and educational opportunities Dr. Babasaheb Ambedkar went on to become the most influential person. He also guided the students about making a good use of all the available opportunities and resources which Dr. Babasaheb Ambedkar was denied. The Chief Guest were Mrs. Dipti Raut (Senior Journalist, Divya Marathi) and Mr. Santosh Gaidhani (President, Tufan Sena) expressed contribution of Dr. Babasaheb Ambedkar towards upliftment of human being. Mrs. Dipti made a point by adding Dr. Babasaheb Ambedkar's contribution in the field of Engineering and added that term Consulting Engineer in government department is introduced by Dr. Babasaheb Ambedkar. Speaking on the occasion Prof. Milind Murugkar (Head of Department, Mechanical Engg.) said that, "the people of this country should study and implement the thoughts and ideas of Dr. Babasaheb Ambedkar". The program ended with a vote of thanks and a short speech by Prof. Dr. Sanjay Gangurde (Production Department). Students' representative Mr. Sanajay Singh shared his view on this occasion. Mr. Aishwarya Kambale anchor the event, Prof. Pravin Surwade and Prof. Charudtta Mhasde were the staff Coordinator. The function was great success and attended by most of HOD, Professor and Students from all departments.



Celebration of Birth Anniversary of Dr. Babasaheb Ambedkar

■ **Institute received Certificate of Appreciation for top ranking Private Institute**

Our institute received certificate of appreciation for Top Ranking Private institute by Digital Learning (DL) Ranking 2018 at the hands of Dr. Manpreet Manna, Director, AICTE, New Delhi. Principal Dr. K. N. Nandurkar received the certificate on behalf of the institute.



Digital Learning (DL) Ranking 2018 award received by Prof. Dr. K. N. Nandurkar

■ **Congratulation to Hon. Balasaheb D. Wagh on getting 'Pitru Puraskar' at Pune**

Hon. President of K. K. Wagh Education Society Shri. Balasaheb Wagh received Raobahaddur Navale Pitru Puruskar which given on 24th April by Snehwardhan Research Institute Pune. It was given by at the hands of Dr. Shejwalkar (Management Guru) in presence of Dr. N. M. Joshi, Dr. Shankar Abhyankar and Dr. Snehal Taware. For the felicitation program Trustee Er. Sameer Wagh, Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, Ajinkya Wagh, Principals of various institutes and Heads of departments were present. The program was organized at Maratha Chamber of Commerce hall, Pune.

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Hon. Chairman Shri. Balasaheb Wagh received Raobahaddur Navaie Pitru Puruskar

### ■ Visit by Dr. Pradeep Pendse

On 27th April 2018, Dr. Pradeep Pendse, Dean, Wellingkar Institute of Management, Mumbai visited our institute. He visited MBA department, T & P Cell and Central Library. He also interacted with HODs, Sr. Staff of Institute. He gave some valuable suggestions on this occasion for the development of the MBA Program.



Interaction with Dr. Pradeep Pendse, Dean, Wellingkar Institute of Management, Mumbai

### ■ Poster presentation prize distribution for FE Students

Prize distribution function of Poster presentation Competition was organized on 12th April 2018 by Applied Science and Maths department. It was organized for first year Engineering students. The prizes were distributed by the hands of Principal Dr. K. N. Nandurkar and Mr. Prathmesh Poria (Industrialist and Ex. Student of Production Engineering). For the program, Prof. Dr. S. N. Kadlag, Head of Applied Science and Maths department, Dr. S. S. Naik, Dr. P. J. Pawar were present.



Prize distribution function of Poster presentation Competition for FE

### ■ Expert Lecture/Seminar/Courses/Worshop Organized:

- Department of Computer Engineering organized "Embedded System and IOT Mini Project Competition" and Expert talk on the topic "Advanced Data Structure and Computer Graphics Mini Project Competition" by Prof. Mayur Sonar on 7th April 2018.
- Production Engineering Department organized an expert lecture for staff and Students on "Risk Mitigation and Management" by Vaibhav Deo and Anish Kulkarni of Mahindra & Mahindra Ltd., Igatpuri on 02/04/2018 and an expert talk on "Industry 4.0" by Pravin Pathak, General Manager, BOSCH, Bangalore on 25/04/2018
- Chemical Engineering Department organized expert lecture of Mr. Rohan Pawar, Director, RAP Analytical Training and Research Center, Nashik on 03/04/18.
- Department of MCA has organized Expert Lecture on "A Practical Approach to web services in web technology" by Mr. Prashant Khule on 13th April 2018.

### ■ Seminars/Workshop/Training attended by Staff:

- Prof. N. S. Sonawane of Computer Engineering department attended Skill Development Program on 'Consultant Network Security' under RUSA from 9th to 14th April 2018.
- Production Engineering Head Prof. Dr. P. J. Pawar, and their staff Prof. S. B. Gunjal, Prof. V. S. Gaikwad, Prof. N. S. Wakchaure and Prof. S. B. Sangle have attended B. E. Production Syllabus Implementation Programme at Department of Production Engineering, AVCOE, Sangamner on

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13/04/2018. Same department staff Prof. S. D. Ray attended AICTE-QIP Short Term Course on "Advanced CAD/CAM applications in CNC Machining" at IIT, Khargpur, during 20 - 26 April 2018.

■ **Industrial Visits Organized For Students:**

Date	Class	Name of Company
04/04/2018	S.E. (E & TC)	Signaling Department, Nashik Road Railway station
05/04/2018	B.E. (E & TC)	DEN Cable network

■ **Training & Placement :**

Name of Company	Name of the Dept.	No. of students selected
Bizmatics	Computer Engg.	02
CMS IT	Computer Engg.	04
Datamatics	Computer Engg.	01

■ **Other Achievements**

- Prof. Dr. K. N. Nandurkar and Prof. Dr. Sunil Kute attended 7th Higher Education and HR Summit at Hotel Pride, Pune on 21st April 2018.
- Head of Computer Engineering Prof. Dr. S. S. Sane worked as a session chair at cPGCON-18, organized by Sinhgad Institute of Technology, Lonawala from 5th to 6th April 2018.

■ **Abstracts of papers presented during April 2018:**

**Local outlier detection in a data streams**

Ms. Diksha R. Gupta & Prof. Dr. S. M. Kamalapur (Presented a paper at cPGCON-18, SIT, Lonavala)

**Abstract:** Outlier detection technique finds the data points in dataset having unexpected behaviour. This technique is applicable in variety of domains such as digital marketing, intrusion detection, fraud transaction analysis, etc. Object or data point is either an outlier or it is not an outlier so finding outlier is binary property. In some techniques, degree of being outlier is assigned to each data point. Local outlier can be identified using various techniques such as distribution based, clustering based, distance-based. The focus of the research is on local outlier factor. Local outlier factor (LOF) is based on density approach. Local outlier factor finds the degree of being outlier for each data point based on density. The existing techniques, works on static dataset. Further to work with streaming data a new incremental- LOF technique was used in literature. In this technique along with the incoming data stream points, previous data points are also stored for processing with the assumption of unbounded memory. To overcome

this problem, memory efficient incremental outlier detection over data stream-(MiLOF) is proposed in the literature. This technique preserves the summary of previous data points in each iteration and finds local outliers. The performance of MiLOF depends on: number of data points, number of underlying clusters. The proposed work aims to monitor the performance of a system for variation in number of input data points.

**Index Terms:** Data mining, data streams, local outlier, memory efficiency, outlier detection, streaming

■ **Compound feature subset generation using feature selection and feature extraction**

Ms. Pradnya P. Patil & Prof. S. S. Banait

(Presented a paper at cPGCON-18, SIT, Lonavala)

**Abstract:** To reduce the computational overhead in processing high dimension dataset, dimensionality reduction is important mechanism to remove redundant and unused attributes from dataset in data analysis phase. In existing work, Feature selection and feature extraction are two techniques for dimensionality reduction which were studied independently, so that the result contains either original or transformed feature. Further the combination of feature selection and feature extraction was used and for this, MPeMR (Minimum Projection error Minimum Redundancy) is proposed in literature. In MPeMR, pairing is done only for two features. In proposed work, feature selection and feature extraction methods are proposed to generate compound feature set using semi features. For feature extraction MPeMR technique is apply on more than two features. By combining those features together Normalized Projection Error -  $NPe$  is calculated. Initially semi features are extracted using Normalized Projection Error- $NPe$  by checking orthogonality among selected original features and combination of features. After feature extraction, correlation coefficient and symmetrical uncertainty technique is applied for feature subset selection. This is an iterative process to remove unnecessary redundant features and to calculate  $NPe$  on more than two features.

**Keywords:** Dimensionality Reduction, Feature Selection, Feature Extraction, Classification, Compound Features.

Prof. Dr. K. N. Nandurkar  
PRINCIPAL

