K.K. Wagh Education Society's
K.K. Wagh Institute of Engineering Education and Research, Nashik.
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TECHNICAL NEWS LETTER

Bhumi Pujan of New School Complex

Bhumi Pujan Program of New School Complex at Puria Park

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Bhumi Pujan Program of New School Complex was organized at Puria Park at 6.30am on 19th November 2020. Bhumi Pujan was done by the hands of Hon Shri. Balasaheb Thorat (Revenue Minister, Government of Maharashtra and President of Maharashtra Congress Committee). Satyanarayan Puja was organized in early morning. At 10.00am in Meeting Hall No. 2, the program was organized for the all staff of the various institutes of K. K. Wagh Education Society. In this program Hon. Shri. Balasaheb Thorat was felicitated at the hands of Hon. President of K. K. Wagh Education Society Shri. Balasaheb Wagh. Hon. Shri. Balasaheb Thorat appreciated the development of K. K. Wagh Education Society. During this program Architect Mr. Ghanti from Mumbai explained the plan of Puria Park School Complex and concept behind development of an International School in detail. For the program, Trustee Shri. Ashokbhai Merchant, Trustee Shakuntalatai Wagh, Er. Sameer Wagh, Dr. Sudhir Tambe, MLA, Ex. MP Pratapdada Sonawane, Mr. Ajinkya Wagh, other dignitaries & members of Wagh Family, Principal Dr. K. N. Nandurkar, Principals and Heads of department of various institutes of K. K. Wagh Education Society were present.

Felicitation of Hon. Shri. Balasaheb Thorat

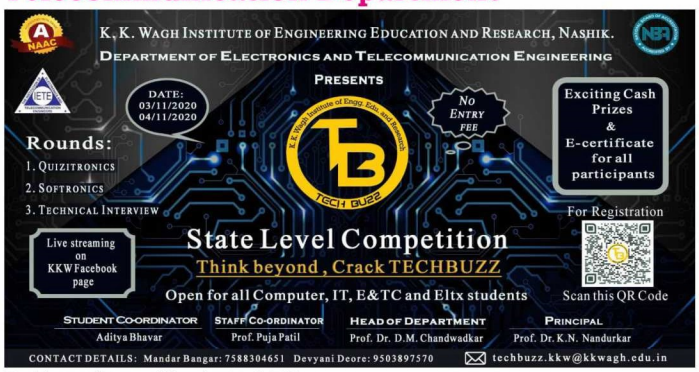
An interaction with Hon. Vivek Sawant

Interaction with Hon Vivek Sawant

An interaction with Hon. Vivek Sawant was arranged on 9th November 2020. He was

felicitated at the hands of Hon. President of K. K. Wagh Education Society Shri. Balasaheb Wagh. Hon. Vivek Sawant emphasized on various new areas with reference to the NEP 2020 where we can focus for the better quality education in future. For the meeting Trustee Er. Sameer Wagh, Secretary Prof. K. S. Bandi, Principal Dr. K. N. Nandurkar, Mr. Ajinkya Wagh, Heads of Department and staff were present.

TECHBUZZ Competition by Electronics & Telecommunication Department



Techbuzz Competition by E & TC

Department of Electronics & Telecommunication Engineering of our institute had organized a state Level Online Technical event TechBuzz-2020 in collaboration with I.E.T.E, Nashik Sub center. The objective was to prepare the students to compete in the future competitive world and not compromising on our student's future. Students from all over Maharashtra have come forward and participated in this event. We got overwhelming 250+ responses from students participating from all over state.

Online Poster Competition – 2020 by ISTE

Expert talk and Poster competition by ISTE

The Indian Society for Technical Education (ISTE) Students' Chapter of K. K. Wagh Institute of Engineering Education and Research had organized an Expert Talk by Group Captain Pankaj Kumar Singh (Retd.) Indian Air Force on a thought-provoking topic 'Role, Relevance and Repertoire of Engineers: Post COVID-19' followed by the Valedictory function of the Poster Competition. The Poster Competition organised online at institute level was responded by 76 participants out of which 49 posters were on the topic 'Heroes of COVID-19' and 27 on 'Earth Reboot'. The Valedictory Ceremony and the talk were hosted on Zoom Platform. The competition was held under the guidance of Dr. K. N. Nandurkar, Principal, K.K.W.I.E.E.R., and Mrs. Vaishali Lele, Faculty Advisor, ISTE Students' Chapter. The posters were judged by Dr. Mrs. Vandana Bagal (HOD, MCA) & Dr. Mrs. Shalmali Gadge (MBA) The Valedictory Ceremony was graced by Group Captain Pankaj Kumar Singh as the Chief Guest

Webinar on "Strategic Planning for GATE"

Webinar on strategic planning for GATE

Department of Electrical Engineering has successfully organized the Webinar on "Strategic Planning for GATE in Electrical Engineering" on 10th November 2020 by faculty of GATE Academy and department alumnus Mr. Mahesh Patil. A total of 165 participants attended the webinar. In this webinar, Mr. Mahesh shared his experiences for planning GATE exam preparation, the mistakes which may be avoided, time management, revision strategy etc. He shared the pattern of GATE 2021 and changes done from earlier examinations. Finally, he motivated the participants to appear for the GATE examination and shared the opportunities to the graduates after GATE.

Lecture series by Prof. Dr. S. Y. Kute for Teaching staff on Autonomy

Department Lecture series on Autonomy was organized by Prof. S. Y. Kute (Dean Academic) during 23-27th November 2020 on various topics for teaching staff of the institute. For this series Hon Chairman Shri. Balasaheb Wagh, Principal Prof. Dr. K. N. Nandurkar, all Heads of department and all teaching staff were present. Following are the various topics covered during the series.

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Date	Topic
23/11/2020	Why Autonomy?
24/11/2020	Outcome based education and Curriculum design
25/11/2020	Evaluation and Assessment in Autonomy
26/11/2020	KKW Model for Autonomy
27/11/2020	Facing inspection of Expert Committee for Autonomy

Expert Talk on "Higher Study and Job Opportunities in USA"

Online guidance session on "Higher Study and Job Opportunities in USA"

International Facilitation Centre of KKWIEER has organized an online guidance session on "Higher Study and Job Opportunities in USA" on 22nd November 2020 at 8.00pm. The session was conducted by Mr. Siddharth Khond (an Alumnus of KKWIEER, 2017 Batch and currently working as a Manufacturing Engineer-I at Therm-x, California, USA on 22nd November 2020. Principal Dr. K. N. Nandurkar, Prof. A. S. Patil and Prof. A. V. Kolapkar were present during the said online session along with nearly 35 students. Mr. Siddharth Khond guided the students about various aspects of higher study abroad like requirements of various examinations such as GRE, TOEFL, IELTS etc., Preparations of these examinations, selection of various Universities, Documents and Application details for getting admission to Higher Study Abroad and On Campus Job Opportunities.

College Development Committee Meeting

Online College Development Committee (CDC) meeting was held on 05th Nov. 2020. Chairman, Hon. Shri. Balasaheb Wagh, Dr. Vishwas G. Pangarkar, Shri. Shailendra Waghulde, Shri. Rajendra Bagwe, Shri. Sachin Kakde and elected staff members of the institute were present. Principal Dr. K. N. Nandurkar welcomed all the members. All members gave their valuable suggestions for overall development of the institute.

Panel Discussion on Computer Engineering and Allied Branches

Panel Discussion on "Scope and Career opportunities in Computer Engineering, Information Technology and Artificial Intelligence & Data Science" was conducted by Department of Computer Engineering, Information Technology and Artificial Intelligence & Data Science on 11th November 2020 for 12th students on 11th November, 2020. Mr. Rahul Malhotra, Mr. Suchit Tiwari, Mr. Akshay Deshpande, Ms. Snehal Behre-Jog, Mr. Rushikesh Jadhav, Mr. Ravi Zha, Ms. Anju Sudheendran, Mr. Nikhil Bhavsar and Mr. Prashant Bhende (All Alumni members) were the Panelist for Panel Discussion. Ms. Dipti Kasliwal initiated the panel discussion. Principal Dr. K. N. Nandurkar, briefed about the Institute. Prof. Dr. S. S. Sane, Head Computer Engineering & AI-DS and Prof. Dr. Mrs. Preeti D. Bhamare, Head, Information Technology briefed about the Department. Mrs. Snehal Behre-Jog Moderated the Panel Discussion. The Panel Discussion was interactive as aspirants and students asked many queries which were answered by the Panelist. Around 195 students attended the panel discussion

Online Panel discussion by Computer Engineering

Online panel discussion by Electronics & Telecommunication Department

Online Panel discussion by E&TC Dept.

Department of Electronics & Telecommunication Engineering of K. K. Wagh Institute of Engineering Education & Research, Nashik in collaboration with IETE Nashik sub center had

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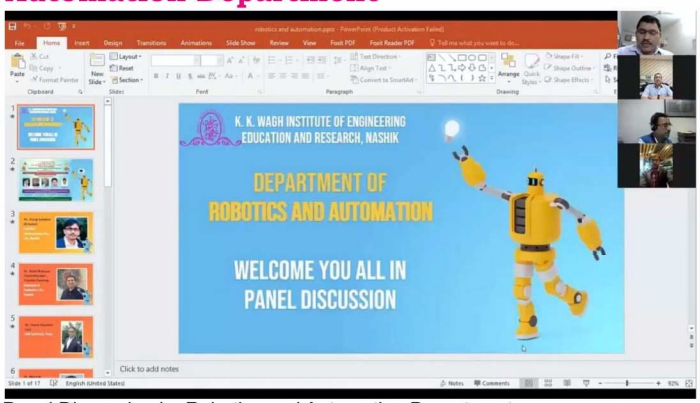
organized Panel Discussion on "Scope & Career Opportunities in Electronics & Telecommunication Engineering" on 6th November 2020 for 12th Science Students. Experts from various industries: Mr. Nitin Mahajan,General Manager BSNL, Mr. Saleel Raje, CEO & Director, ESDM technology Pvt. Ltd., Mr. Nikhil Jain, Chief Manager - Product Development, Siemens Ltd., Mr. Pawankumar Fakatkar, Education specialist, KPIT., Mr. Pranav Lad, Education Success Engineer, MathWorks India Pvt Ltd and Mr.Ashish Mhaske, IUCAA, Pune were present.

Online panel discussion by Robotics and Automation Department



Panel Discussion by Robotics and Automation Department

Department of Robotics and Automation had organised a Panel Discussion on Scope and Career Opportunities in Robotics and Automation on 10 November 2020 at 5.00 pm. Panellists from Different Industries were involved in the discussion. Mr. Rahul Mahajan, Deputy General Manager, Mahindra and Mahindra, Mr. Parag Salvekar, Director, Kapikul Mechatronics Pvt. Ltd., Mr. Vinod Atpadkar, CEO, SVR Infotech, Pune, Mr. Rudresh Kangane, Estro Controls Pvt. Ltd, Nashik, Mr. Nilesh Nikam, Assistant Manager, Industrial Program Leader, Faurecia Clean Mobility, Pune participated as panellists. All the panellists congratulated the department for starting this new branch. Panellists also discussed the importance of this branch in near future from development point of view. Industry 4.0, IoT, Artificial Intelligence are the emerging areas where this branch can contribute to make robot more knowledgeable and responsive.

Online panel discussion by Mechanical Engineering

Mechanical Engineering Department organized an online panel discussion on "Scope and Career Opportunities in Mechanical Engineering" for 12th Science students on 07th November, 2020. Mr. Abhijeet Khatri, Director, Harshada Composite Solution Nashik, Mr. Binu Thomas, Project Manager Machine Learning Ford Motor Company Bangalore, Ms. Harshali Ghule Pursuing PhD at IIT Bombay, Mr. Yugandhar Tupe, CEO Souyouth Enterprises Nashik, Mr. Manas Dhage, Director R & D, Therm India Pvt. Ltd (Konark Global Co.) Nashik, Mrs. Anjali Dube Mishra, Product Development, Mahindra and Mahindra Ltd were the panelists for the same. Around 250 students attended the panel discussion.

Online Panel discussion by Mechanical Engg Dept.

Online panel discussion by Chemical Engineering

Online Panel discussion by Chemical Engg Dept.

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Chemical Engineering Department organized an online panel discussion on "Scope and Career Opportunities in Chemical Engineering" for 12th Science students on 07th November, 2020. Amol Magar, Deepak Novochem Technology Ltd. Pune, Mr Sandeep Kadam, Toyo India Pvt. Ltd. Mumbai, Mr Rushikesh Bhandari, Director Purchase House Nashik and Yogesh Lawand, L & T Chordiya Vadodara were the panelists for the same. Around 135 students attended the panel discussion.

Online panel discussion by Civil Engineering Department

Online Panel discussion by Civil Engg Dept.

Civil Engineering Department had organized an online panel discussion on "Scope and Career Opportunities in Civil Engineering" for 12th Science students on 07th November, 2020 Er Vikas Ramgude, Chief Engineer P.W.D, Navi Mumbai, Er Mayur Patil, Associated Structural Consultant, LLP Thane, Er. Vilas Birari, Chairman & M.D Harsh Construction, Nashik and Er Avinash Zambare Cost Manager (CR) Ominium International Ltd. Dubai were the panelists for the same. Around 130 students attended the panel discussion.

Training & Placement :

Name of Company	Name of the Dept.	No.of students selected
Jaikumar Constructions Ltd. (Parksyde homes)-Nashik	Civil Engg.	02
Capgemini	Electrical Engg	06
Embio Ltd., Mahad	Chemical Engg	02
Sahyadri Farms Pvt. Ltd., Nashik	Chemical Engg	01

Abstracts of papers presented during November 2020

Efficient Multi-label Classification using Attribute and Instance Selection

Dr. Shirish S. Sane & Vaishali S. Tidake

(Presented paper at Ramdeo Baba COE, Nagpur and received best paper award)

Abstract: Both attribute and instance selection is proven to be beneficial to reduce the computational complexity of classifiers while improving their accuracy. Instances in multi-label data are associated with multiple labels. Hence the process of attribute selection from multi-label data is different as compared to single-label classification. Either transformation or adaptation approaches are used by various researchers while performing attribute selection. In this paper, attribute selection and sampling are performed on the multi-label data. This pre-processed multi-label data is then fed to the proposed algorithms, namely MLFLD and its extension MLFLD-MAXP. An empirical evaluation is carried out to study the behaviour of proposed multi-label classifiers. The methods used in this work are defined as algorithms MLFS, MLIS, and MLFSIS. Comparing proposed algorithms with and without MLFS, MLIS, and MLFSIS has shown the effectiveness of using only sampling or attribute selection followed by sampling on multi-label data. Attribute and instance selection together are noticed to be very useful for the performance enhancement of proposed algorithms over only attribute or instance selection.

Keyword: Multi-label classification, Sampling, Attribute selection, Sample size

Performance Evaluation of Community Detection Algorithms in Social Networks Analysis

Ms. Prajakta Vispute & Dr. Shirish Sane

(Presented paper at Ramdeo Baba COE, Nagpur)

Abstract: In social network analysis, community identification unveils properties shared by nodes like area of research, communication, common interest and many more. The evolving nature of social networks necessitates dynamic community detection methods. To handle the continuous change in data, improved community detection algorithms are introduced in various

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applications. To find communities in dynamic SNA, static community detection methods can be used to generate base communities, which then can be modified for dynamic data. This paper deals with selection of suitable algorithm for detection of communities from static data based on different performance parameters and thus could be used for efficient detection of dynamic communities.

Keyword: Network analysis, Graph mining, Community detection, Dynamic community detection.

Effective analysis of noise levels due to vehicular traffic in urban area using deep learning with OALO model

Prof. Vilas K. Patil & Mr. P. P. Nagrale

(Published in International Journal of Computers and Applications)

Abstract: Nowadays, there has been an exponential grow in the number of vehicles moving on the roads, causing an unavoidable intensification of levels in the traffic noise. There is no second opinion on the fact the everzooming noise levels have adversely affected the health and welfare of a substantial section of society, especially those who are residing in the immediate vicinity of highways and urban roads. In this regard, a novel method intended for the improvement of the vehicular traffic noise prediction techniques namely the Deep Neural Network (DNN) is introduced. For optimizing the weight of DNN structure, we designed a metaheuristic approach termed as the Oppositional based Antlion Optimization (OALO). Using the data of observed noise levels, traffic volume and average speed of vehicles, the noise parameters such as Equivalent continuous (A-weighted) sound level Leq and Percentile exceeded sound level, L10 are predicted. The predicted noise levels are compared with experimental and other existing prediction models. It is observed that the proposed DNN-OALO approach attains high accuracy and also accomplished a positive correlation between actual and predicted noise levels.

Experimental Approach for Chain Performance Through Recurdyn Software

Prof. Vilas K. Patil & Mr. Saurabh Dalvi

(Published a paper in International Journal of Latest Trends in Engineering and Technology in October 2020)

Abstract: This paper presents the results from a recent experimental investigation into the dynamic changes in the values of chain velocity and chain tension of roller chain drives with or without idler. While the idler is used as chain tensioner, if brings some positive changes in the chain sprocket assembly. This changes observed and studied by performing a multi-body dynamic simulations.

Prof. Dr. K. N. Nandurkar
PRINCIPAL