■ International Conference on "Emerging Trends in Computing 2018"(ICCETC)

Department of Computer Engineering of K. K. Wagh Institute of Engineering Education & Research, Nashik has organized 5th International Conference on "Emerging Trends in Computing 2018"(ICCETC-2018) on 22nd & 23rd June,2018. The conference aims to provide a forum to exchange the ideas on latest developments in the field of Computer Science and Information Technology. It is a platform to bring together professionals, academic researchers and industrial personnel with a view to present and discuss conceptual and experimental work. The conference was inaugurated at the hands of Dr. Rajiv Papneja, CEO, ESDS, Nashik. In the keynote address he focused on Artificial Intelligence and its opportunities. Prof. Dr. K. N. Nandurkar, Principal, Prof. Dr. S. S. Sane, HOD, Prof. Dr. S. M. Kamalapur, Convener ICCETC-18, Prof. N. M. Shahane, Prof. N. G. Sharma and Prof. K. P. Birla, Co-convener ICCETC-18 were present on the dais.

In all 35 papers were presented during two days of conference and Dr. D. V. Patil, Dr. V. S. Pawar, Dr. M. U. Kharat were the session chairs.

■ One day workshop on MATLAB

One day MATLAB workshop was organized by Department of Computer Engineering on 22nd June 2018. Mr. Suraj Gawande , Engineer, DesignTech Systems Ltd., Pune was expert for the same. Total 46 participants attended the workshop from various institutes.

Objectives of workshop:
1. Introduction to MATLAB
2. How to use toolboxes in MATLAB?
3. How to implement assignments in MATLAB

Outcomes of workshop:
1. Participants will able to use toolboxes of MATLAB
2. Participants will able to implement assignments using MATLAB

Participants enjoyed session thoroughly as expert demonstrated applications of MATLAB in Image Processing, Machine Learning and IoT.

Workshop was coordinated by Prof. Monali Mahajan and Ms. Manisha Shewale under the guidance of Prof. Dr. S. M. Kamalapur.

■ SE Orientation Program

Orientation program for SE students was organized by Department of Computer Engineering on 29th June 2018. Program began with department presentation by Prof. Dr. S. S. Sane. Toppers of FE were felicitated by Prof. Dr. S. S. Sane. Prof. N. G. Sharma and Prof. R. H. Jadhav briefed about the T & P activities and registration process of TCS Codevita, KPIT sparkle. Prof. K. P. Birla elaborated about REDX club and whitespot. Prof S. K. Gondhalekar informed students about the mentors and mentoring facility available in the institute. Debuggers club and its activities were illustrated by Prof. W. W .Pingle. Ms. Anuja Dixit explained about the CSI student branch and its activities. Prof. S. P. Solunke provided details of Audit courses. Prof. M. P. Mahajan explained about spoken tutorial courses along with that informed

students about procedure to be followed for leave, Lab key permissions and library facilityavailable in the department. NPTEL courses and its registration process were explained by Prof. N. M. Pagare.

■ An expert talk on the topic "Introductory Session on Cyber Security"

An expert talk on the topic "Introductory Session on Cyber Security" was conducted on 14th July 2018 at department of Computer engineering, K. K. Wagh Institute of Engineering and Education Research, Nashik. The motive of the event was to introduce student regarding Cyber Security.

The session was conducted by Mr. Tanmay Dikshit, Center for Personality Assessment and Graphology, Nashik. He covered following points:
- ❖ Cyber Security Basics
- ❖ Introduction to Cryptography
- ❖ Security requirements
- ❖ Intrusion and Firewall
- ❖ Security perspective of Hacking and its counter majors

The session was coordinated by Prof. G. R. Gupta, Prof. S. K. Chumble and Prof. M. N. Shinde, Computer Engg. Dept., under the guidance of Head of Department Prof. Dr. S. S. Sane.

■ An Expert talk on "Enterprise Architecture"

Expert talk on "Enterprise Architecture" By Mr. R. Ramanan for the Second, Third and Final Year Computer Engineering students was organised on 16th July 2018 by Prof. N. G. Sharma & Prof. R. H. Jadhav. The session was conducted in the John Von Neuman Hall from 1.30 pm onwards.

Mr. Ramanan guided students on the following topics:
1. What is Enterprise Architecture
2. Need of Enterprise Architecture
3. Emerging trends in IT

It was an interactive session and all queries of students were answered satisfactorily by Mr. Ramanan. Total 60 students were present.

■ Interactive Webinar on "Data Analytics using R"

Interactive Webinar on "Data Analytics using R" By Ms. Seema Acharya for Final Year Computer Engineering students was organised on 26th July 2018 by Prof. S. S. Sane, Prof. R. H. Jadhav and Prof. K. P. Birla. The webinar was conducted in Project Lab from 4.00 pm to 5.00 pm. 10 BE students, Prof. R. H. Jadhav, Prof. K. P. Birla, Prof. A. V. Taware and prof. D. M. Kanade attended the Webinar

Following topics were covered in the Webinar – features of R language, brief about various data mining algorithms and implementation of K means clustering using R.

■ Expert Talk on "The Agile Way

A Expert Talk on "The Agile Way" was arranged for TE students on 20th August 2018. he Expert talk was delivered by Ms. Dipti Kulkarni Vice President in Apps Programming in Bank of America.The session started with the facilitation of Ms. Dipti Kulkarni by Prof. Dr. S. M. Kamalapur During this session she has given introduction of the Agile Methodology and also discussed about challenges in Agile methodology SCRUM Model and working of SCRUM model. The session was very interactive and students enacted

various key-roles involved in SCRUM methodology. The Session was attended by TE students along with the Staff Members of Computer Department and coordinated by Mr. D. M. Kanade.

■ A workshop on android programming

A workshop on android programming for B.E. students was organized on date: 30 and 31st August, 2018 at Department of computer engineering. More than 30 students attended the workshop to understand fundamentals of android programming, to develop mobile applications and to find entrepreneurship as well as career opportunities in mobile application development.Workshop was delivered by Mr. Pratik Khanapurkar (Innovator DISQ-Nashik) and coordinated by Prof.K.P.Birla, Prof.S.T.Patil and Prof.G.R.Gupta under the guidance of Head of the Department Prof.Dr.S.S.Sane.

■ Expert Talk on " Data Analytics

■ Technical Aptitude Test Competition

A Expert Talk on"Data Analytics" was arranged for TE students on 29th Aug 2018. The Expert talk was delivered by Mr. Chirag Agarwal, Business Program Manager in Microsoft, Bangaluru The session started with the facilitation of Mr. Chirag Agarwal by Prof. S. S. Banait During this session He has given introduction of the What are the current developments in Data Analytics Domain and Data Warehousing (and why should you care)?,Which new tools and vendors are available, How to validate the relevance of these new developments, How do I improve my existing environment without adding extra costs. The Session was attended by TE students along with the Staff Members of Computer Department and coordinated by Mr. D. M. Kanade

The Debuggers' Club organized the Technical Aptitude Test Competition for the Computer Department on the occasion of the Teachers' Day (5th Sept. 18) . The aim of competition was to focus on the student's technical knowledge and prepare them for the future competitive exam. The event is co-ordinated by Prof. Priti Vaidya and Prof. Suruchi Malao. Technical aptitude test was conducted under the same. There were two test paper set one for SE student and one for TE and BE student. The winners were awarded with certificates and cash prizes

Debate Competition

The Debuggers' Club organized the Debate Competition for the Computer Department on the occasion of the Teachers' Day. The competition aimed to provide a platform for improving the speaking skills and the presence of mind of the students and provide them a simulation of the debate round of the actual placement process. The entire event was judged by staff members from the Computer, IT, MCA departments.

The competition was conducted as follows:

There were a total of 3 rounds. There were teams of 5 students each. In each round, 2 teams faced each other as competitors. A topic was given then where one team had to speak for the topic while the other had to speak against the topic which was decided by a toss between the teams. Each member of the team was given 30 seconds to elaborate his/her idea following which the actual debate of 10 min was allowed. 4 teams were qualified from round-1 to round-2 and 2 teams were qualified from round-2 to round-3. Total 40 students had participated in the event. The winners were awarded with certificates and cash prizes.

Inter College IT Quiz Competition

Department of Computer Engineering
CSI Student Branch organized Inter College IT Quiz competition on 28-09-2018

Participants of IT Quiz

Final Round :IT Quiz

IT Quiz Finalist

IT Quiz First Prize Winners : BE-COMP KKWIEER

IT Quiz Second Prize Winners :TE-COMP KKWIEER

IT Quiz Third Prize Winners :Sandip COE

Inter College IT Quiz competition had been organized by CSI student branch Nashik on 28/9/2018 in Computer Engineering Department. Total 14 groups participated in the IT quiz competition from different colleges. There were total four rounds. First Round was MCQ round and four groups were eliminated. Second Round was Rapid fire round and four more groups were eliminated. Third Round was file extensions round and two groups were eliminated. Then Final round was visual round conducted between four groups. In the Quiz, First prize was won by BE computer Engineering (KKWIEER), Second prize was won by TE computer Engineering (KKWIEER) and Third prize was won by Student of Sandip COE. The activity was coordinated by Prof. A. V. Kolapkar, Prof. A. V. Tavare, Prof. I. Priyadarshini & Prof. K .P. Birla

DBMS Mini Project competition

CSI student Branch is association with Dept. of Computer Engineering conducted DBMS Mini Project competition for Third Year Computer Engineering Students on 11th October 2018. 17 groups have been selected for the competition and students project were judged based on various criteria's like GUI, Scope, Database Design, Presentation and Error handling .First three winners were awarded by CSI student branch at Dept. of Computer Engineering , KKWIEER Nasik . Mrs. Chandini Jain, Mrs. M. P Nawarkar, K.K.Wagh Polytechnic, Nasik judged the event Activity was conducted by Mrs. A. V. Tavare Mrs. I. Priyadarshini and under the Guidance of Prof. Dr. S. S. Sane (RVP VI CSI Maharashtra & Goa).

Skill Development Laboratory Mini Project Competition

A Mini Project competition on "Skill Development Laboratory" was organized by Department of Computer Engineering K. K. Wagh Institute of Engineering Education & Research, Nashik in

association with Student branch of Computer Society of India for Third year Computer Engineering students on 13-10-18. Prof. R.M. Bora, Asst Prof, Department of Information Technology was invited as Judge. Total 17 groups have been selected for the competition and the groups demonstrated their projects to judge and the winners were awarded with prizes. The event was coordinated by Prof. D.M. Kanade and Prof. Lalit Patil.

■ Poster Competition for SE students

The Debuggers' Club organized the Poster Competition for the SE students of Computer Department. The competition aimed to provide a platform for improving the presentation skills and to encourage them to think out of contextual syllabus. Students were appealed to prepare posters based on Smart City and Japanese audit course. The entire event was judged by: Miss. Rohini Bhadane . 37 teams with posters were participated. The winners were awarded with certificate by judge.

■ Seminars/Workshop/Training attended by staff:

- Prof. N. M. Pagare, Prof. S. D. Jadhav, Prof. M. P. Mahajan, Prof. G. R. Gupta, Prof. M. J. Patil, Prof. S. P. Solunke, Ms. J. R. Rahatal, Ms. M. C. Shewale attended MATLAB Workshop , KKWIEER , Nashik on 22/6/18.
- Prof. N. M. Pagare, Prof. S. D. Jadhav, Prof. G. R. Gupta, attended ICCETC 2018 , KKWIEER , Nashik 22/6/18 and 23/6/18.
- Prof. S. S. Bhandare, Prof. S. P. Solunke attended Flipped Learning, KKWIEER , Nashik on 13/6/18 to 14/6/18.
- Prof. R. H. Jadhav attended FDP on LP I at MIT CoE , Pune from 10/7/18 to 12/7/18.
- Ms. R. A. Palde, Mr. Y. B. Navale, Ms. J. R. Rahatal, Mr. S. K. Ahire, Mr. A. K. Nikum attended Work Culture Workshop, Vishvasharya Hall, KKWIEER, Nashik. on 22/9/18.
- Prof. L. A. Patil attended Cyber Security, Sree Vidyanikethan Engineering College (SVEC), Tirupati, Andhra Pradesh on 28/9/18.
- Prof. L. A. Patil attended Indian Cyber Congress (INCYCON) conference, Sree Vidyanikethan Engineering College (SVEC), Tirupati, Andhra Pradesh on 29/9/18

■ Papers Presented by Staff and Student

Title of Paper: An Empirical Evolution of Various Discrimination Measures for Discrimination Prevention

Author: Mr. Manoj Ashok Wakchaure, Prof. Dr. S. S. Sane

Organizer : ICCETC 2018

Abstract: Discrimination prevention in Data mining has been studied by researchers. Several methods have been devised to take care of both direct and indirect discrimination prevention. In order to prevent discrimination, each of these methods tries to minimize the impact of discriminating attributes by modifying certain discriminating rules. The discriminating rules are identified using certain threshold and discrimination measure such as elift for direct discrimination and elb for indirect discrimination. Performance of these methods are measured and compared in terms discrimination removal using DDPD, DDPP for direct discrimination and IDPD, IDPP for indirect discrimination as well as resultant data quality using MC and GC for both kinds

of discrimination. This paper deals with study of use of discrimination measures other than elift such as slift, clift and olift. The empirical evaluation presented here shows that slift provides best overall performance. Keywords: Data Quality, Discrimination Measures, Discrimination Prevention, Direct and Indirect Discrimination Prevention.

Title of Paper: Effect of Mutation and Crossover Probabilities on Genetic Algorithm and Signature Based Intrusion Detection System

Author: Mr. Prakash N Kalavadekar ,
Dr. Shirish S. Sane

Organizer : ICCETC 2018

Abstract: Signature based Intrusion detection is one of the examples of supervised data mining classification. A model is trained based on database of known attacks and once trained is used to detect attacks. Each attack in the database is described using a set of attributes. Attribute selection is often used to remove irrelevant attributes to train the model quickly and also to improve the accuracy of the trained model. Genetic algorithm has been used to perform attribute selection effectively. It follows a wrapper approach. Wrapper approaches have been found to be more accurate when compared with filter based attribute selection approach, however need more time to perform attribute selection. Also wrapper approach has inherent bias imposed by the type of wrapper classifier used. This paper suggests a filter based genetic algorithm for attribute selection to build signature based intrusion detection sys-tem (IDS). As like other attribute selection algorithms, the number and actual attributes that are selected is decided by the values used for input parameters such as mutation and crossover probabilities. Empirical evaluation performed on well known datasets presented here show that the genetic algorithm could select reason-ably less number of attributes to build and train the IDS model having higher accuracy, detection rate, false positive rate etc.

Keywords: Cross over, Detection, Features, J48, Intrusion, Mutation, Security, Signature