NEWS LETTER

Volume 3 Issue 2

BEAUTY OF ALGORITHMS

Department of CSE organized an ISTE approved short term training program on "Algorithm Design & Complexity Analysis". The sessions were handled by eminent faculty members from reputed institutes. Ms. Divya B, HoD, CSE welcomed everyone to the 5 day program. Our STTP was for-



Inauguration.

mally inaugurated by Rev. Fr. George Asarikunnel, Bursar, VJEC. Rev. Fr. George mentioned the importance of such faculty development programs during his inaugural speech. Mr. Prasanthkumar P V, AP, CSE delivered the vote of thanks. Faculty members from CSE, VJEC and GCE, Wayanad attended the STTP program.

Day 1: Network Flow Algorithms

Dr. Sudeep K S, Assistant Professor, Dept. of CSE, NIT-Calicut is a post doctoral fellow from Chennai Mathematical Institute and had got his PhD from IIT Mumbai. He gave the participants a really informative session on "Network Flow Algorithms". He had started from the basics of algorithms and had taken the participants into the theoretical concepts behind network flow problems. They are central problems in Operations Research, Computer Science and engineering and arise in many real world applications.



A Token of Love to Mr. Sudeep KS

ENGINE ENING COLLEGE CHENPERI

VIMAL JYOTHI Engineering College

Department of Computer science and Engineering

Bi-monthly News Letter April , 2015

VISION

To Create A Vibrant Environment That Fosters Critical Thinking Dynamism, And Innovation to Transform Students Globally Competitive IT Professionals

ISTE Approved STTP on AGORITHM DESIGN & COMPLEXITY ANALYSIS

MISSION

To Achieve Our Goals Through Distinctive Approach To Curriculum, Technology Driven Research And Rigorous Academic Study Imbibed With The Excitement Of Discovery

What is inside ...?

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Day 2: Public Key Cryptographic Algorithms

Day 2 sessions were handled by Dr. Vinod Pathari, Associate Professor, NIT-Calicut. He is a doctorate from IIT Mumbai. He gave us a really informative session on public key or asymmetric cryptography from an algorithm viewpoint. Public key approaches are a class of cryptographic protocols based on algorithms that require two separate keys, one of which is *secret* (or *private*) and one of which is *public*. Although different, the two parts of this key pair are mathematically linked. Dr. Vinod had made the session interactive and interesting with his superior teaching style.



Day 3: Algorithm Analysis & Design Technique

Dr. Najeeb K, Professor, Govt. College of Engg., Kannur had handled the session on 27/4/15. He is a doctorate from IIT Madras. He had given a wonderful session beginning from the basics of Algorithm design. The participants were given a new outlook to Algorithms using Python scripting. We were made to realize that core concepts can be taken in an interesting manner by using Python and it

would make students understand the concepts of time and space complexity.

Day 4:

Complexity Theory

Day 4 sessions were also handled by Dr. Najeeb K. He gave us an insight into different complexity classes

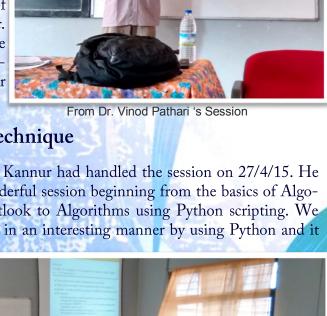
Day 5 FN:

Randomized Algorithms

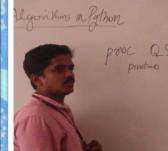
Mr. Prasanthkumar PV, AP, CSE, VJEC handled a



purely based on input and random number generator. Different complexity classes were explored using randomized algorithms.



behavior of the algorithm by classes were explored using the larger than the l



Day 5 AN: Hands-on session with

Python

A session on Python programming language was given by Mr. Midhun TP, AP, CSE. Python is a suitable language for implementing Al-

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gorithms and it supports almost all type of data structures. Its syntax allows programmers to express concepts in fewer lines of code than would be possible in languages such as C++ or Java. So, this was an interesting session for the participants as we were made to implement sorting and graph algorithms using Python.

INDUSTRIAL VISIT – CYCORE IT ACADEMY

CSE when they got permission for one day indus- Blackberry, Kannur. The students were given a session on a new mobile engineer of the academy. This is a mobile develop- APIs like tems purchased Nitobi in 2011.

This framework is supported in a number of mo- bile apps using standardized web APIs.

It was a great pleasure for the students of S4 bile operating systems like Android, Apple iOS, Tizen etc. Tt enatrial visit at CYCORE IT computer academy, bles software programmers to build applications for devices using JavaScript, HTML5, technology called PhoneGap by a senior software and CSS3, instead of relying on platform-specific those in iOS, Windows ment framework created by Nitobi. Adobe Sys- or Android. PhoneGap is a free and open source framework that allows programmers to create mo-

A New Level in Augmented Reality: Magic Leap



you to look simultaneously at a flat screen in the distance and images that appear to be moving in front of you, it can make you dizzy and lead to headache Magic Leap introduces a new approach. They describe displays that can create the same kind of 3-D patterns of light rays, known as

Virtual- and augmented-reality technologies used in movies, smartphone apps, and gadgets tend to under deliver on overhyped promises with images that does not look real. Typically that's because stereoscopic 3-D, the most commonly used method, is essentially tricking your eyes instead of working with the way you normally see things. It produces a sense of depth by showing each eye a separate image of the "light fields," that our eyes take in from the real obsame object at a different angle. But since that forces





jects around us. Magic Leap researchers have shown that this allows your eyes to focus on the depths of an artificial 3-D scene just as they would in the real world—providing a far more realistic illusion of virtual objects merged with the real world. It tries to seamlessly blend computer-generated graphics with the real world. With this we can expect a world where you can talk to a person as he/she is near to you or you can enjoy movies/games like you are inside in it...

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Staff Achievements

PAPER PUBLICATIONS

Ms. Deroll David, Ms. Divya B, "Image Authentication Techniques & Advances Survey", Compusoft An International Journal of Advanced Computer Technology, April 2015. ISSN: 2320-0790

- Ms. Divya B, Mrs. Ancy K Sunny, Mrs. Vidhya S S, "A study on video streaming over MANET", International Journal of Engineering Technology Science & Research, March 2015. ISSN: 2394-3386
- Mrs. Ancy K Sunny, Mrs. Vidhya S S, Ms. Divya B, "A survey on visual cryptography", International Journal of Engineering Technology Management and Applied Sciences, March 2015. ISSN: 2349-4476
- Mrs. Neena V V, Ms. Divya B, Mr. Jilson P Jose, "A Review on Node Cooperation in Multihop Wireless Networks", International Journal of Engineering Technology Management and Applied Sciences, March 2015. ISSN: 2349-4476
- Mrs. Vidhya S S, Mrs. Neena V V, Mrs. Ancy K Sunny, "A study on preserving location privacy", International Journal of Engineering Technology Science & Research, March 2015. ISSN: 2394-3386
- Mr. Jilson P Jose, Mr. Rahul Ajithkumar, Mrs. Neena V V, "A Comparison Study on IDS for Addressing Security Issues of MANETs", International Journal of Innovations and Advancement in Computer Science (IJIACS), March 2015. ISSN 2347 8616

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