



IIITM-K News

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MONTHLY NEWSLETTER FROM THE INDIAN INSTITUTE OF INFORMATION TECHNOLOGY AND MANAGEMENT - KERALA

National Conference cum Workshop on Scientific Computing- 2012

Indian Institute of Information Technology & Management-Kerala (IIITM-K), Technopark, Trivandrum organised a four day National Conference cum Workshop on Scientific computing from 11th Jan. 2012 to 14th Jan 2012. The conference was inaugurated by Prof. V.N. Rajasekharan Pillai (Executive vice president of KSCSTE and Principal Secretary,

ferent branches of science and engineering. He specifically spoke about the importance of computational chemistry and computational biology in academia and R&D sectors. Prof. M.S. Gopinathan delivered the keynote address. During the speech, Prof. Gopinathan highlighted the importance of computational science and its applications in science, engineering, medicine and even in arts. Dr. Manoj Kumar welcomed the guests and participants and Shri. T. Radhakrishnan proposed vote of thanks.

The workshop aimed to exchange ideas across discipline boundaries of science and engineering. Scientific computing is the field of study associated with mathematical modeling and methods for providing numerical solutions to problems in science and engineering. The seminar will focus on application of computing in all branches of science and engineering. Prof. V. N. Rajasekharan Pillai (Executive Vice President of KSCSTE & Principal Secretary, Science & Technology Department – Govt. of Kerala)

will be inaugurating the function. Prof. M. S. Gopinathan, (IISER, Trivandrum); Prof. V. Sundarapandian (Vel Tech Dr. RR & Dr. SR Technical University, Chennai); Prof. C. Sudarasanakumar, (SPAP, M. G. University); Dr. Satheesh Kumar K.S., (Dept. of Future studies, Kerala University); Dr. Suresh C.H., (NIIST, Trivandrum); Dr. Ayan Datta (IISER, Trivandrum); Dr. Yohannan Panicker (TKM College

of Arts and Science, Kollam), Mrs. Hema Ramachandran (College of Engineering, Trivandrum) and Dr. T.K. Manojkumar (IIITM-K) will be handling different sessions of the conference cum workshop.

A Scilab workshop followed the conference on 13th Jan 2012 which was lead by Dr. Sundarapandian, Professor at Vel Tech Dr. RR. & Dr. SR Technical University, Chennai.

There were about 40 participants in the conference cum. During the feedback session, all the participants told that the event was highly useful for them. They told that they are expecting these kinds of events especially "Hands on training methods" from IIITMK in future also and expressed their willingness in participating future events. They also requested for hands on training in computational biology especially in drug designing techniques.



Department of Science and Technology, Govt. of Kerala) on 11th January 2012. Dr. Elizabeth Sheryl presided over the inaugural function. Prof. Rajasekharan Pillai emphasized the importance of ICT in improving the quality of higher education. He also stressed the importance of computational methods in dif-



Conference / Workshop announcements

International Conference on Security in Computer Networks and Distributed Systems (SNDS-2012), October 11-12, 2012, Hosted by IIITM-K

The International Conference on Security in Computer Networks and Distributed Systems (SNDS-2012) aims to provide the most relevant opportunity to bring together students, researchers and practitioners from both academia and industry to present their research results and development activities in the field of security in computer networks and distributed systems. The technical program of the conference will include tutorials, regular technical sessions, workshops, special sessions, demos and plenary/keynote speeches.

The program committee invites original and unpublished work from individuals active in the broad theme of the Conference. SNDS-2012 consists of six subtracks. Authors should submit their papers online. We use EDAS system for submission of papers and review process. All papers that conform to submission guidelines will be peer reviewed and evaluated based on originality, technical and/or research content/depth, correctness, relevance to conference, contributions, and readability. The manuscripts should be submitted in PDF format. Acceptance of papers will be communicated to authors by email. The Conference Proceedings will be published by a reputed international publisher and all the papers of the proceedings will be submitted to major database indexers for indexing. Authors of selected outstanding papers will be invited to submit extended versions of their papers for consideration of publication in reputed international journals. Please visit the conference website (<http://www.snds-conference.org>) regularly for updates.

Dr. Shashi Tharoor to inaugurate NPTEL workshop

Dr. Shashi Tharoor, MP, will inaugurate a one day workshop for enabling "Excellence in Higher education and technology through ICT and NPTEL Resources" being organized Indian Institute of Information Technology & Management-Kerala (IIITM-K), Trivandrum, NPTEL, Indian Institute of Technology, Madras and Eduworld on 28th January 2012 at Travancore Hall, Technopark, Trivandrum. The inaugural function will be presided by Prof. A. Jayakrishnan, Vice Chancellor, University of Kerala and Prof. Venkat Rangan, Vice Chancellor of Amrita University will give the key note address. Prof. Kuncheria P. Isaac, Member Secretary, AICTE, will give a special address to the gathering. The workshop is organized to establish a common platform and address to share and exchange educational resources and enable effective utilization of such valuable resources to reach higher levels of academic excellence. More than 150 teachers and researchers from educational institutions and universities are expected to attend the workshop. Presentations and discussions will be held on how to use ICT and NPTEL resources can be used in an effective to enhance the quality of higher education. For more details and registration please visit: www.iiitm.ac.in

IIITM-K chosen for second phase of ILCI

DIT has chosen IIITM-K for the second phase of the ILCI (Indian Language Corpus Initiative) project. The second phase has enhanced objective by increasing the number of languages from 11 to 23 and participating by 23 states. ILCI is one of the largest projects under TDIL (Technology Development in Indian Languages) of DIT. Other than Tourism and Health Domain in the first phase, Phase II include Agriculture, Sports and Entertainment.

Invited Talks

Dr. C.S.P. Iyer, Emeritus Professor, IIITM-K, gave a talk on the *Future Energy Scenario*, at the National Energy Parliament, at Priyadarshini Auditorium on 30th December 2011. The future energy scenario would be mainly based on Nuclear Fusion, simulating the reactions takes place on the sun. The fusion of Deuterium and Tritium does not produce radioactivity, as in the case of nuclear fission. One can go one step further; one can use Helium 3 available on lunar soil and Deuterium, which has less energy loss.

Dr. C.S.P. Iyer, Emeritus Professor, IIITM-K, while addressing the delegates to the Conference on *Advances in Science, Technology and Social Development*, at Priyadarshini Auditorium, on 6th January 2012 gave an account of the experiments progressing at the Large Hadron Collider (LHC). He said that mankind is on the threshold of identifying the hitherto elusive Higgs Boson, which could explain the mass of particles; Particles acquire mass, while passing through the Higgs boson field.

Visitors

Sikkim IT Minister Visits IIITM-K
Dec. 28, 2011; Sikkim IT Minister Hon'able Shri. Narendra Kumar Pradhan Visited IIITM-K on Dec. 28, 2011. IIITM-K Director, Dr. Elizabeth Sheryl gave a presentation of the Academic, Research and Project activities. The Minister appreciated the activities at IIITMK and agreed to send officers from Sikkim to learn developments in the State and for the forthcoming e-Governance meet to be held in IIITM-K.

Placement
Three of the MSc-IT 3rd semester students Arun Raj, Nimya I. K. and Rakhi M. have been selected by Allianz Cornhill, Technopark after the placement process conducted on 11th Jan 2012. Congratulations to all those who are selected.

Syllabus Workshop for Environmental Informatics

A workshop to finalise course composition and syllabus for MSc. in Environmental Informatics was held at IIITM-K on 17 Jan. 2012. The expert committee included Prof. P.S. Ramkrishnan JNU New Delhi, Prof. T.V. Ramachandra, Centre for Ecological Sciences IISc Bangalore, Prof. Ammini Joseph, School of Environmental Sciences CUSAT, Dr. CSP Iyer and Dr. R. Jaishanker, IIITM-K.

IIITM-K Summer School on Environmental Informatics

Indian Institute of Information Technology and Management - Kerala (IIITM-K) is pleased to announce its Summer School on Environmental Informatics from 9-13 April 2012. This program provides an occasion for intensive training in the different facets of the interdisciplinary subject and is targeted at postgraduate, doctoral, postdoctoral researchers and working professionals in the field of ecology, environmental science and allied disciplines. Lecture sessions will be complemented by hands-on training to reinforce the contents. List of topics that will be covered are Environmental Informatics: The need, relevance and directions; The Natural capital; Carrying capacity; Understanding global change: A thermodynamic perspective; Numerical techniques for environmental research [Statistical - R package]; Numerical techniques for environmental research. [Mathematical - Matlab]; Geospatial Web Technologies and Standards for Environmental Scientists. Grants are available to support travel and accommodation of 20 participants. For details and online application, please visit www.iiitm.ac.in

IEEE Circuits & Systems Outreach Workshop

IIITMK is organizing India's first IEEE Circuits and Systems Outreach workshop for high school students and teachers. The workshop is planned with a larger aim to improve the quality of students who intend to take machine intelligence and circuits/systems themes as their career, orienting students very early in their career. The plan is to select 20-30 exceptionally bright students from schools throughout Kerala, India and train them in implementing simple intelligent systems and algorithms. All students will be provided scholarships to attend the programme, and registration fees are not collected from the participants. During the workshop, the students will be introduced to local research scientists from Industry and Academia, to share their insights and to enable them to think about a career in Circuits and Systems Society themes (CASS). The workshop will also provide a long term forum for the students to interact with some of the leading research scientists and emerging thought leaders from around the world. More details can be obtained by contacting the workshop chair, Dr Alex Pappachen james (a.james@iiitm.ac.in) and by visiting the website- www.cas-workshop.org

Kerala State's second data centre (SDC) Inaugurated

Kerala State's second data centre (SDC) was inaugurated in a function held in Park Centre, Technopark Campus on Jan. 24 2012. Shri. P.K. Kunhalikutty, Hon. Minister for Industries, IT and Urban affairs, Govt. of Kerala inaugurated the new SDC in Thejaswani and gave the Inaugural address. Shri. K.S. Srinivas, IAS, Special secretary to Govt., IT Dept. Govt. of Kerala welcomed the guests and Felicitation were offered by Dr. K. Santhana Raman, State Informatics officer, NIC, Shri. K.G. Girish Babu, CEO Technopark, Shri. Sasi P.M. Associate Director C-DAC and Prof. Elizabeth Sheryl Director, IIITM-K. Shri. A. Shajahan, Director, KSITM proposed Vote of Thanks.

IIITM-K participates in FOSSK4

Dr. Elizabeth Sheryl, Director, IIITM-K took part at the Inaugural Session of the 4th International Conference on Free and Open Source Software, Kerala (FOSSK), organized by ICFOSS during 27-29 Dec 2011 at Trivandrum.

Congratulations!!

Mr. Sanil Shanker has been awarded Ph.D in Computer Science under University of Kerala. In his thesis entitled 'Sequential Pattern Matching in DNA Sequence using Logical Match', a new technique for sequential data mining- The Logical Matching Strategy has been put forward. He was the first Ph.D student of IIITM-K and carried out his work under the supervision of Dr. Elizabeth Sheryl. He is a Kerala University Research Fellowship Scholar and also the recipient of European Research Education Collaboration on Asia (EURECA) scholarship, where he carried out his research in University of York for one year. He has 6 published papers to his credit.