IEEE Hyderabad Section Presents

State of art lectures in

Computational Intelligence in Bioinformatics (CIB)

DATE: 24th April, 2010 **TIME: 4.00PM-7.30PM**

VENUE:

TATA CONSULTANCY SERVICES
DECCAN PARK
1, SOFTWARE LAYOUT UNIT
MADHAPUR, HYDERABAD.

ORGANIZER:

Dr. Amit Kumar,
Chair-Resource Development Committee,
IEEE-Hyderabad Section
CEO, BioAxis DNA Research Centre (P) Ltd.
Hyderabad.

Limited Vacancies

To participate, please email to

amit.kumar@ieeehyd.org

This Event is designed to equip the students, faculties, researchers and technocrats in the upcoming field of artificial intelligence called informational systems in the field of biology. More specifically the topics lay the basis for the need of such an interdisciplinary study both in the academics as well as in the research praxis. The background of using bioinformatics tools not only as an analytical instrument but more as a commercial solution is well elucidated in the course. The event will include topics like pattern recognition in bioinformatics, Micro array analysis and Artificial neural networks (ANN), Hidden Markov Models (HMM), clinical application of pattern recognition in diagnostics and understanding protein protein interactions in the light of computational Intelligence.

WHO SHALL ATTEND

Graduates with knowledge in basic Biology, Biotechnology, Bioinformatics, Related Life sciences areas, mathematics, computation or logistics are preferable. Researchers with avid background of interdisciplinary research are also welcome. Analysts dealing with clinical paradigm must have the curiosity to understand the concept behind using the ANN in bioinformatics.

Engineers, Scientists, Research/Engineering Students, Engineering students working in the field of Computational intelligence, Bioinformatics, Computer science, Electronics and Electrical Engineers

PROGRAM SCHEDULE:

4:00PM-4:25AM – High Tea and Registration
4:30PM-5:15PM – Computational Intelligence: The past, present and future
– by Dr. Atul Negi (U.O.H.)
5.25PM-6.10PM – Bioinformatics & Computational Intelligence-Do we meet the Challenge – by Dr. Bapi Raju (U.O.H.)
6.15PM-7.00PM – Use of Statistical methods in structural Bioinformatics
– by Dr. Rajgopal Srinivasan (TCS Innovations Labs, Hyd)
7.00PM-7.20PM – Section updates and potential new Chapters in IEEE, Hyderabad Section
– by MGPL Narayana (Chairman, IEEE Hyd. Section and VP-TCS, Hyd)
7.25PM-7.30PM – Vote of Thanks
– by Dr. Amit Kumar (Resource Development Chair-IEEE Hyderabad Section)

IEEE

Dr. Atul Negi (U.O.H.)

Computational Intelligence: The past, present and future

Dr. Atul Negi, is presently an Associate Professor at Dept. of Computer and Information Sciences, AI Lab, University of Hyderabad. He completed M.Sc. (Engg.) from IISC, Banglore and was awarded Doctorate from the University of Hyderabad. Presently Dr Negi is supervising 5 doctoral scholars. He played a key role as Director of Prestige Institute of Engineering and Science, Indore; Scientific Officer at the Dept. of Computer Science and Automation, IISc, Banglore and Visiting faculty at the IIIT, Hyderabad. He has got R&D experience of about 20 years in Document analysis, Pattern Recognition and Mobile Adhoc networks. Dr. Negi is a Senior Member of IEEE , a Co-Founder Member and Moderator of Linux User group of Hyderabad, Life member of Indian Unit of International Association for Pattern Recognition.

Dr. Bapi Raju (U.O.H.)

Bioinformatics & Computational Intelligence-Do we meet the challenge?

Dr Bapi Raju is a BE (EE) from Osmania Univ, MS (BME) and PhD (CS) from University of Texas at Arlington. He also worked with University of Plymouth, UK and ATRI Labs in Kyoto, Japan. He is presently working in Department of Computer and Information Sciences (DCIS), university of Hyderabad since 1999. Currently He is Professor in DCIS. He is also the associate Coordinator of Centre for Neural and Cognitive Sciences and also associated with the Bioinformatics Initiative in University of Hyderabad. Dr Raju is Senior Member of IEEE and Computational Intelligence Society of IEEE. His research interests include, biological and artificial neural networks, machine learning applications in bioinformatics, financial markets, and other industrial application domains, and cognitive science.

Dr. Rajgopal Srinivasan (TCS, Hyderabad)

Use of Statistical methods in Structural Bioinformatics

Rajgopal Srinivasan heads the Informatics offerings of the Life Sciences R&D division at Tata Consultancy Services. A graduate in Chemistry from The Indian Institute of Technology in Madras, Raj holds a Ph.D. in Chemistry from the University of Illinois at Urbana-Champaign in the USA. Following post-doctoral stints at Washington University in St. Louis and Johns Hopkins Medical School, he was a research professor at the Johns Hopkins University in the department of Biophysics till 2003. He joined TCS in 2003 as part of its Corporate R&D Center in Hyderabad, India. An active researcher, he is the author of several publications and holds an international patent.

His research interests are in the areas of protein structure prediction, use of NLP techniques for information extraction and search and understanding the causal effects of genotype on phenotype.