

NATIONAL UNIVERSITY OF SINGAPORE

School of Computing

C S S E M I N A R

Title: Programming with Constraints across Multiple Paradigms

Speaker: Dr. T V Gopal
 Professor
 Department of Computer Science and Engineering
 College of Engineering
 Anna University

Date/Time: 22 May 2015, Friday, 09:30 AM to 12:00 PM

Venue: TR9, COM2-01-08

Chaired by: Dr Stephan, Frank Christian, Professor, School of Computing
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Abstract:

What is a Paradigm ?

"A basic way of perceiving, thinking, valuing and doing things that are associated with a particular vision of reality."

- Willis Hartman, "An Incomplete Guide to the Future"

"A set of rules that define limits, and establish what's necessary to be successful within those limits."

- Joel Barker, "Discovering the Future: The Business of Paradigms"

The shift to Programming Paradigms has changed the way we study the codebases developed and compose large applications by "Integrating" them. In this lecture the "reality checks" and "limits" are modeled as constraints. A Theory of Constraints that spans across multiple programming paradigms is used to illustrate the aspects of Interoperability and Integration of the codebases. E-HACK 2013 is an event that has made it to the GUINNESS BOOK of RECORDS. The speaker was fortunate to be with core the technical support for this event. E-HACK 2013 is a Case Study for this lecture.

Biodata:

Dr. T V Gopal obtained his B.E (Electronics and Communications) from Osmania University, Hyderabad in the year 1986. He got his M.Tech (Computer Science) from Hyderabad Central University, Hyderabad in the year 1987. He was awarded the Ph.D in the

area of "Distributed Operating Systems" in the year 1995 by Anna University.

Areas of Interest

Operating Systems
Distributed Computing
Usability Engineering
Information Architecture
Object Oriented Technologies
Software Quality
Nano-Computing
Science and Spirituality

Dr. T V Gopal served as the Honorary Chief Editor for the "CSI Communications" - a monthly publication of the Computer Society of India sent to 20000 IT Professionals. He also served as the Chairman, CSI Division II [Software].

He is an Expert Member of the Editorial Advisory Board of the International Journal of Information Ethics.

Dr. T V Gopal has published around 55 Research Papers. He also has 6 papers in the area of Science and Spirituality.

Dr. T V Gopal has authored four books and co-edited five conference proceedings.

Dr. T V Gopal has consulted to several leading industries. He has won several awards at the National level. He is listed in the "DATABASE OF SCIENCE COMMUNICATORS IN INDIA: 2013" published by Vigyan Prasar, Department of Science & Technology, Government of India.