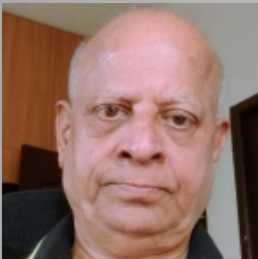




**Society for Electronic Transactions and Security (SETS)
IEEE LMAG Madras Section
IEEE Computer Society Madras
Association for Computing Machinery Chennai
Chennai Computer Museum**

**Cordially invite you to the Talk (Hybrid Mode) on
“Perspectives on Computer Networking and Cloud Computing”**



Shri.S.Ramakrishnan

Former DG CDAC

Date: Thursday, 3rd August 2023 :: Time: 3.30PM to 5:00PM

Venue: SETS Auditorium, MGR Knowledge City, C.I.T Campus, Taramani, Chennai - 600113

(Close to IIT Madras Research Park)

Programme: 3.30PM to 5:00PM :: High Tea

About the talk

In this talk, we take a 50-year view of computing and networking industry. It happens to span most of my professional life and hence the privilege of talking from a ring-side view of events and landmarks that unfolded in this period and forces that shaped them. International and Indian developments coalesce with gentle or considerable lag – though we did things our way and might not always have been the worse for it. When did internet come to be internet or when was it born? Best answer could be mid seventies to early nineties! Coincidentally, or not so coincidentally, ERNet was conceived in 1984 and started as a program in 1986. The campus networks at eight places, the Wide area network (terrestrial, dial-up and satellite- VSATs) connecting these were in place by late '80s and network traffic including first email flowed across the networks in the eight (and increasingly more) campuses and global 'internet' (starting with UUCP net). By the time internet went public in '93, ERNet had also expanded its tentacles to 700 campuses, providing the trio of email, telnet, and remote login, as also the newly added browser and search engines of World Wide Web. We were ahead of China by 10 years by then. And all architecting, experiments in protocol development and network engineering was done by the project group, not by any 'outsourced' vendors. Only thing we missed was the tag 'public internet' or a formal 'ISP' because we were not recognized by DoT.

Besides academic and research community, we had connected - for a while, software exporters, senior government officials, NGOs/ nerds, libraries, UNDP, World bank and so many more. We even trained CTO of VSNL and his team! One of our team members went to STPI to set up their satellite (Earth Station) and RF-network based network for software exports, which triggered the success of software outsourcing industry boon in '90s. [VSNL commenced its commercial ISP operation on 15th August, 1995, a full 6-year+ after ERNet commenced its internet traffic. Another later development was the roll-out of NKN from 2009 onwards]. 2000's saw Grid computing (Garuda), a network of supercomputers in ~35 institutions, with 100 Mbps backbone built by C-DAC alongwith other partners. The topic of eScience was strong in Europe and they collaborated with India, setting some milestones along the way. Comparatively, Cloud computing came up by accident and emerged from business model focus from industry, with Amazon Web Services as one of the pioneers. It also reflected the concept of 'utility computing' which has been a vision of many for many decades. The decade of 2010s till now has seen cloud computing playing a central role in the digitalization era. What is happening on that front globally and in India, we'll see briefly in the second half of the talk, as a way of looking at the present and future in computing trends and the resultant applications and use-cases they are driving and can be expected to drive

About the Speaker

Over the last four decades, Srinivasan Ramakrishnan has distinguished himself in government, R&D labs and industry in various areas of Information and communication technologies (ICT). He was with Ministry of Electronics and IT (MeitY), Government of India handling telecom, networking and computing areas for over twenty-five years. He was Founder Project Director, ERNET, pioneering computer networking R&D work and roll-out of internet in the country for the first time. Later, he headed software development and broadband and convergence divisions, funding various R&D initiatives. He headed NCST, Media Lab Asia and, later C-DAC, as Director General for six years. His name figures in the list of 'Icons of Indian IT' published by Wisdom tree in 2018, along with 29 other eminent people in the field.

<https://www.amazon.in/IconsIndianAnandParthasarathy/dp/818328485X>.

Since superannuation from C-DAC, he has been an independent technology and management consultant working in the areas of e-Governance, Healthcare IT, ICT Standards and start-ups. In 2020, he set up a company, IISAC Private Limited, to evangelize development and adoption of ICT Standards. He was involved in development of Indian ICT Accessibility Standard, IS 17803 (Part 1 and 2) in 2020-21 as a member of a team led by Dr.Subramanian, then Senior Director, Corporate R&D. Currently, he is active in BIS, SC-31 and SC-35;and is a member of MeitY WG which is formulating Cloud Interoperability and Portability standard/guideline. He is a board member of GSTN. He is a B.Tech., and MTech., from IIT Madras and MBA from MDI, Gurugram. He is a member of IEEE Computer society. He moved over to Chennai last year

Please register at

<https://forms.gle/2THAno6NYSj7Gva1A>

For More Details Contact

Dr P Nageswara Rao
Coordinator

Ms.A.Suganya
Technical Coordinator

Contact:9884143131

workshop@setsindia.net