

Dr. Timothy A. Gonsalves



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Professor Emeritus (Hon.)

Indian Institute of Technology Mandi

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My other websites: IIT-related and Personal

Education

- B. Tech. (Electronics), I.I.T., Madras, 1976
- M. S. (Electrical), Rice University, Houston, Texas, 1979
- Ph. D. (Electrical), Stanford University, California, 1986

Interests

- Applied research in distributed applications, quality of service, network protocols, mobile/voice-based applications.
- Development of products and technology in computer networks and telecommunications, especially aimed at mass markets in developing countries.
- Promotion of software development in rural areas.
- Teaching in systems areas of computer science and engineering.
- **Employment** (Click to collapse)
 - Department of Computer Science, WPI, Worcester, Massachusetts, USA: Assistant Professor, 1986-1988.
 - Department of Computer Science & Engg, IIT Madras: Assistant Professor - Professor, 1989 - (Jun 2019)
Head of Department (Aug 2005 – Jan 2010)
 - Nilgiri Networks, Ooty: Director, 1999 - 2001 (on leave from IIT Madras)
 - Indian Institute of Technology Mandi: Director & Professor, Jan 2010 – (Jan 2020)
- **Professional Activities** (Click to collapse)
 - Cofounder of the TeNeT Group (Telecommunications and Computer Networking) of IIT-Madras, 1992-present.
 - Helped IIT alumni found R&D companies -- Midas Communications, Banyan Networks, NMSWorks Software and ISoftTech.
 - Founded Nilgiri Networks, Ooty for telecom software development in a small town.
 - Director of NMSWorks Software Ltd and IIT-M Rural Technology Business Incubator.
 - Consultant to State Bank of India, Institute for Development and Research in Banking Technology (IDRBT), and 3i Infotech.
 - Conference/Program Co-Chair, IFIP Home Oriented IT Conference (HOIT 2007), Aug 2007, IIT-Madras.
 - Member, Technology Committee, Mobile Payment Forum of India (2007-10)
- **Recent R&D Projects (PI or Joint-PI)** (Click to collapse)
 - Smart Agriculture, Farmer Zone Sponsored agency DBT, Amount Rs. 9.47 crores, Duration March, 18 to March, 21
Sponsor: MHRD, Rs. 1.40 crore from June 2016 – May, 2020
PI: Dr. A D Dileep, Co-PI's: Prof. Timothy A Gonsalves, Dr. Sriram Kailasam, Dr. Aditya Nigam, Dr. Samar Agnihotri, Dr. Varun Dutt
 - Smart Agriculture: Farmer Zone
Sponsor: DBT, Rs. 9.47 crores, from March, 18 to March, 21 Prof. Timothy A Gonsalves, Project Coordinator,
Dr. Srikanth Srinivasan (PI), Dr. Renu M.R, Dr. Siddhartha Sarma, Dr. A.D. Dileep, Dr. Shyam Kumar Masakapalli, Dr. Shyamasree Dasgupta (Co-PI's) from IIT Mandi AND Dr. S.K. Chakrabarti (PI) from CPCRI, Shimla, Dr. Tina Barsby (PI) from NIAB(UK) AND Dr. Andre Laperriere (PI) from GODAN (USA) AND Dr. David Hughes (PI) from University of Pennsylvania
 - Cloud Computing For Rural India, Rs. 10,00,000/- from. November 2011 – October 2018
PI: Prof. Timothy A Gonsalves
- **Completed R&D Projects (selected)** (Click to collapse)
 - Estimation Quality of Broadband Internet in India.
Sponsor: NIXI – Rs. 5 lakhs, Dec. 2010 – August 2011
 - Distributed Document Management Systems.
Sponsor: RTBI – Rs. 6.5 lakhs, from Mar. 2011 – Mar. 2012
Centre for Innovative Technologies for the Himalayan Region
Sponsor: DST, Rs. 13.87 lakhs from Aug. 2012 – Jan. 2019
 - Aakash Education Proposal
Sponsor: MHRD, Rs. 62.5 lakhs from Aug. 2012 – Sept. 2015
 - India-UK Advanced Technology Centre (IU-ATC Phase-2) of Excellence in Next Generation Network System and Services.
Sponsor: DST, Rs. 81.48 lakhs from September 2012 – October 2015