



Indian Institute of Technology Madras  
Office of Alumni and Corporate Relations

**CELEBRATING THE  
GENEROSITY OF  
DR. PRABHAKAR RAGHAVAN  
&  
MRS. SRILATHA RAGHAVAN**



**IMPACT OF YOUR GIVING IN 2024**

# DIRECTOR'S MESSAGE

**Prof. Kamakoti Veezhinathan**  
**Director, IIT Madras**



Greetings!

IIT Madras continues to retain her top position for the ninth consecutive year, in the National Institute Ranking Framework, thanks to the world-class research, unwavering dedication and creative mindset of its faculty and students. The contribution and support of Alumni and well-wishers like you have crucially helped this standing and stature.

Our achievements in research, education, innovation, and entrepreneurship have also earned us the recognition of an 'Institute of Eminence' as well as the top position in the Atal Innovation Ranking from the Government of India.

IIT Madras is making an indelible mark in promoting and providing education to students from the length and breadth of India to areas beyond Indian territory, through her initiatives in rural developmental educational programs, international, interdisciplinary M.Tech courses, and online diploma courses. The popularity and reach of our online courses can be gauged by the fact that around 25000 students in ages ranging from 17 to 82, have enrolled for these courses across national boundaries, and about 30% are from rural India. The institute, in a first-ever initiative by an IIT, has consolidated its position on the world map by establishing her international campus in Zanzibar, Africa where about 45 students have been admitted to different programs.

Innovation and entrepreneurship are ingrained in all our endeavours – our ambitious ventures in rocket and space explorations, the development of lab-grown diamonds, hyperloop, the Brain Research Centre etc, are a testimony to this. The start-up ecosphere is also a reflection of this spirit, wherein last year, 70 startups came to fruition, successfully nurtured by our centres of excellence, the Centre for Innovation, Nirmaan – the pre-incubator, the Incubation Cell, technology centres such as 'IITM-Pravartak' at the IIT Madras Research Park and others. This year, our target is to incubate at least a 100 Start-ups in various sectors. It is expected that at least 20% of the passing out students will be proud CXOs of their own ventures! The year 2023 also saw 221 national and 105 international patents from our Institute and we are looking to closing this current financial year with 366 patents, to account for 'a patent a day'.

Towards promoting inter-disciplinary research and exploring new frontiers, a Department of Medical Sciences and Technology was launched in May 2023, a School of Sustainability in Oct 2023, a Department of Data Science and Artificial Intelligence in Nov 2023 and a new Interdisciplinary Dual Degree program on Quantitative Finance in Dec 2023 through the synergy of the departments of Management Studies, Computer Science and Engineering and Mathematics. Our School of Sustainability has signed MoUs for collaborations with Tel Aviv University, Israel and Technische Universität Dresden, Germany, with the aim of being recognized as a leader for sustainability teaching and research in the global south.

Lofty ambitions and achievements are impossible without the deep-rooted faith and support of alumni and well-wishers like yourself. We are indebted to you for your bountiful, impactful contributions and the faith reposed on us. On behalf of IIT Madras, I express my deepest gratitude for continuing to strengthen the Institute. Together with your support, we are confident of building an IIT Madras that is more inclusive, diverse, and seized of tomorrow's needs to be nationally and globally relevant.

Thank you!

## DEAN'S MESSAGE

**Prof. Mahesh Panchagnula**  
**Dean, Alumni and Corporate Relations**  
**IIT Madras**



Greetings from the Office of Alumni and Corporate Relations!

Please accept my sincere appreciation for the unwavering support you continue to provide to IIT Madras. Your generosity is the cornerstone of our success, and we are truly grateful for your commitment to the causes that are important to the students and faculty of IIT Madras. This report is a testament to the profound impact your contributions have had –by transforming the lives of students, supporting research, augmenting Institute infrastructure, enhancing learning or through supporting other myriad causes. Your trust in us propels our ambitions, and we are committed to ensuring that your donations are utilized to their fullest potential.

In a world evolving rapidly in science and technology, we have set ambitious goals for ourselves. Your enduring enthusiasm and support provide fillip to our efforts. IIT Madras stands as a beacon of diversity, sustainability, innovation and research excellence. While we have transformed over the years, our commitment to being a premier institute in the country and abroad, remains steadfast, attracting the brightest minds from across the globe. I cordially invite you to visit the campus, witness first-hand the salutary impact of your contributions, and observe the Institute's growth and evolution over the years.

Your generous gifts have made an incredible difference in our Institute's aspirations – Thank you!

Your continued partnership is invaluable as we navigate the exciting journey ahead, shaping the future of India and the world together.

The report will present a thorough assessment of the impact that your contributions have made towards the causes outlined below:

01

**1981 Batch Ruby Reunion E-mobility Buses**

02

**Merit Cum Means Scholarship Endowment**

03

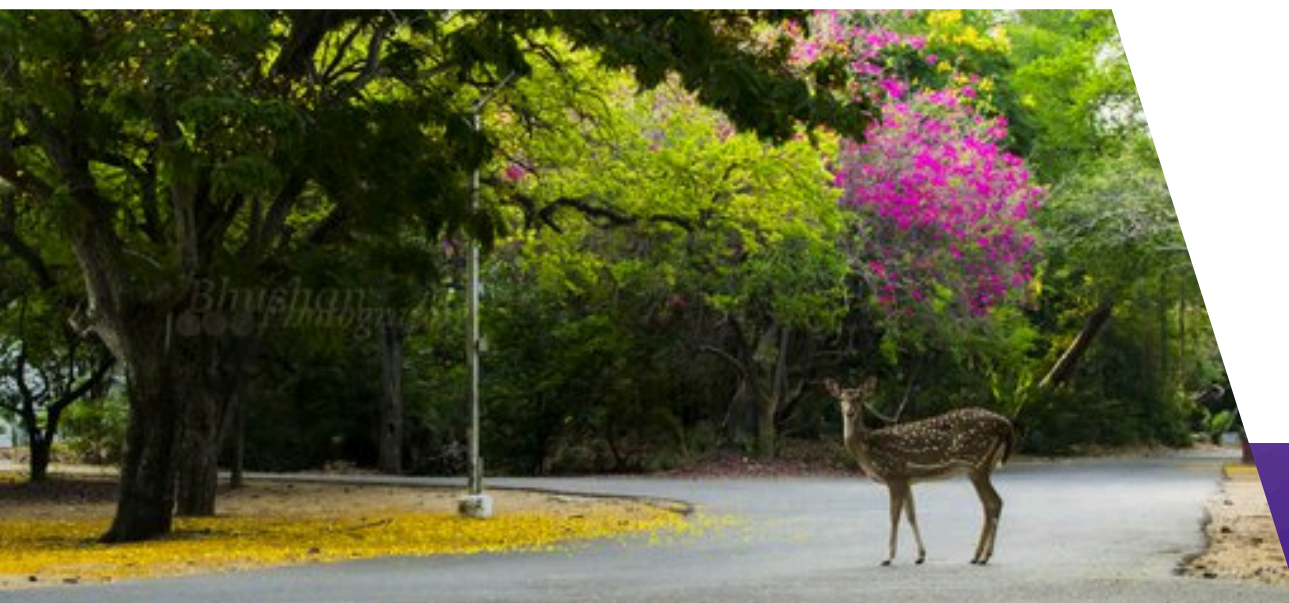
**Richard Karp Institute Chair**

04

**Alumni Community Institute Chair**

05

**Prof. M. S. Ananth Endowment Fund**



## 1981 BATCH RUBY REUNION E-MOBILITY BUSES

To advance the E-mobility initiative within the IIT Madras campus in furtherance of IITM's sustainability and carbon zero effects, the class of 1981 has generously contributed to the 5 air conditioned e-buses. The electric bus was officially launched on 25th March, 2024.





10 e-carts were purchased in 2023, and are currently being used inside the campus. This e-cart has been immensely useful to the students and faculty alike in moving around the campus. Visitors have also used it to enjoy the scenic beauty of the campus



## MERIT CUM MEANS SCHOLARSHIP ENDOWMENT

The Merit-Cum-Means Scholarship fully supported the cost of tuition fees which was Rs. 90,000/- per annum for a student until 2015. From 2016, the tuition fee has been revised to Rs.2 lakhs per annum. The Govt. Merit-Cum-Means Scholarship has been revised to 2/3rd of Rs.2 lakhs (i.e. 1.33 Lakhs). This leaves a sum of Rs. 66,667/- to be borne by the student.

### Eligibility Criteria

- Parental income should be Greater than 1 lakh and less than 5 Lakhs per annum
- Degree - B.Tech / Dual Degree
- CGPA - Above 5

**The below two students are benefited through  
your generous support**



**Hemant Pravin Rajhans**  
ED22B021  
Dual Degree  
Engineering Design



**Hemsainath Reddy Vayyala**  
MM22B031 – B.Tech  
Metallurgical and Materials  
Engineering

# RICHARD KARP INSTITUTE CHAIR

Richard Karp Institute Chair was instituted in 2015 by the thoughtful contribution of Dr. Prabhakar Raghavan and it was named after his Prof. Richard Karp is a computational theorist at the University of California, Berkeley where he is currently a Professor Emeritus.



## Chair Occupant



First occupant of the Richard Karp Institute Chair  
Dept. Of Computer Science and Engineering  
IIT Madras  
(Currently, Visiting Professor of Computer  
Science IIT Hyderabad)

## Introduction

C. Siva Ram Murthy received the B.Tech. degree in electronics and communication engineering from the Regional Engineering College (currently, National Institute of Technology), Warangal, in 1982, the M.Tech. degree in computer engineering from the Indian Institute of Technology (IIT), Kharagpur, in 1984, and the Ph.D. degree in computer science from the Indian Institute of Science, Bengaluru, in 1988. Since 1988, he has been with the Department of Computer Science and Engineering at IIT Madras, where he is currently the Richard Karp Institute Chair Professor, as well as a Visiting Professor with Indian Institute of Technology Hyderabad, Hyderabad. He held the Indian National Academy of Engineering Chair Professorship from 2012 to 2014. He is a co-author of the textbooks -- Ad Hoc Wireless Networks: Architectures and Protocols (Prentice Hall, USA), Resource Management in Real-time Systems and Networks (MIT Press, USA), WDM



Optical Networks: Concepts, Design, and Algorithms (Prentice Hall, USA), An Analytical Approach to Optical Burst Switched Networks (Springer, USA), Parallel Computers: Architecture and Programming (Prentice-Hall of India), and New Parallel Algorithms for Direct Solution of Linear Equations (John Wiley & Sons, Inc., USA). He has served as an Associate Editor for the IEEE Transactions on Computers and IEEE Transactions on Mobile Computing, and as a Subject Area Editor for the Journal of Parallel and Distributed Computing. He is currently an Area Editor of Computer Networks Journal. He is a recipient of Best Ph.D. Thesis Award from the Indian Institute of Science, INSA Medal for Young Scientists, Dr. Vikram Sarabhai Research Award, IBM (USA) Real-Time Innovation Award, Erasmus Mundus Academic Staff Scholarship, and Sir JC Bose Fellowship. He is an elected Fellow of Institute of Electrical and Electronics Engineers (FIEEE, USA), The World Academy of Sciences for the advancement of science in developing countries (FTWAS, Italy), Indian National Science Academy (FNA), and Indian National Academy of Engineering (FNAE).

### **Current Research**

Current research focus: Resource management issues in 5G/6G wireless networks --- user association, spectrum allocation, interference and power management, service function chaining, security, and user privacy preservation. Devising efficient solutions to deploy heterogeneous wireless technologies in IoT networks.

### **Recent Publications**

- Himanshu Kushwaha, Vijeth J. Kotagi, and C. Siva Ram Murthy, “On the Effects of Transmit Power Control on Multi Carrier LAA-WiFi Coexistence”, IEEE Trans. On Sustainable Computing, vol. 7, no. 3, pp. 656-667, 2022.
- Revathy Narayanan, Swarun Kumar, and C Siva Ram Murthy, “Cross Technology Distributed MIMO for Low Power IoT, IEEE Trans. on Mobile Computing, vol. 21, no. 5, pp. 1609-1624, 2022.

- Kaliyammal Thiruvassagam Prabhu, Vijeth J Kotagi, and C. Siva Ram Murthy, "A Reliability-Aware, Delay Guaranteed, and Resource Efficient Placement of Service Function Chains in Softwarized 5G Networks", IEEE Trans. on Cloud Computing, vol. 10, no. 3, pp. 1515-1531, 2022.
- Sriharsha Chigullapally and C. Siva Ram Murthy, "Joint Energy and Throughput Optimization for MEC-enabled Multi-UAV IoRT Networks", Computer Communications, vol. 201, pp. 1-19, 2023.
- K. E. Srinivasa Desikan, Vijeth J. Kotagi, and C. Siva Ram Murthy, "Decoding the Interplay Between Latency, Reliability, Cost, and Energy While Provisioning Resources in Fog-Computing-Enabled IoT Networks", IEEE Internet of Things Journal, vol. 10, no. 3, pp. 2404-2416, 2023.
- Sriharsha Chigullapally and C. Siva Ram Murthy, "A Novel Cellular User Offloading via UAV-Borne IRS", IEEE Wireless Communications Letters, vol. 12, no. 10, pp. 1736-1740, 2023.
- Venkatarami Reddy Chintapalli, Balaprakasa Rao Killi, Rajat Partani, Bheemarjuna Reddy Tamma, and C. Siva Ram Murthy, "Energy- and Reliability-Aware Provisioning of Parallelized Service Function Chains With Delay Guarantees", IEEE Trans. on Green Communications and Networking, vol. 8, no. 1, pp. 205-223, March 2024.
- Suranjan Daw, Anwasha Kar, Venkatarami Reddy Chintapalli, Bheemarjuna Reddy Tamma, and C. Siva Ram Murthy, "LAMP: A latency-aware MAC protocol for joint scheduling of CAM and DENM traffic over 5G-NR sidelink", Computer Communications, vol. 217, pp. 41-56, 2024.
- Venkatarami Reddy Chintapalli, Rajat Partani, Bheemarjuna Reddy Tamma, and C. Siva Ram Murthy, "Energy efficient and delay aware deployment of parallelized service function chain in NFV-based networks", Computer Networks, vol. 243, pp. 1-14, 2024.
- Vipin N Sathi and C. Siva Ram Murthy, "Boost Your Immunity: VACCINE for Preventing a Novel Stealthy Slice Selection Attack in 5G and Beyond", to appear in ACM Trans. on Privacy and Security, 2024.

## ALUMNI COMMUNITY INSTITUTE CHAIR

The Alumni Community Institute Chair is an institute level Chair funded by various alumni and non-alumni across the globe. First Chair occupant of the Alumni Community Institute Chair was Prof. R. Nagarajan, Retired Professor from the Department of Chemical Engineering, Indian Institute of Madras.

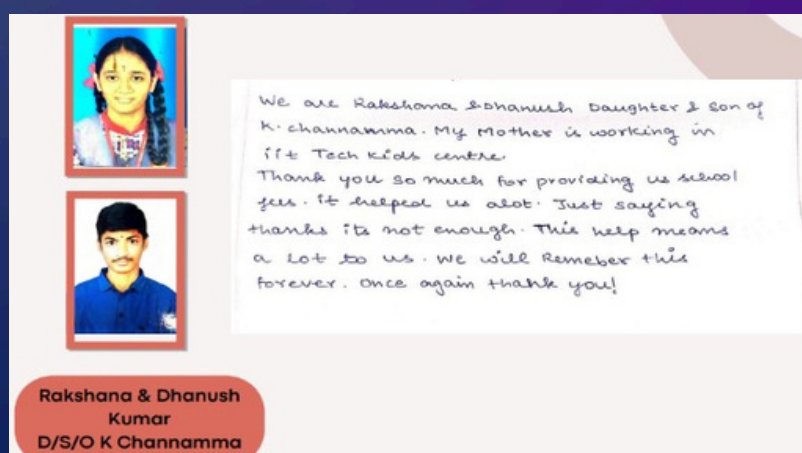
*Identifying the Chair occupant is in progress*



This Endowment Fund was established to honor Prof. M. S. Ananth, who served as the Director of IIT Madras from 2001 to 2011. He was well-known for his contributions to science and teaching, as well as his tireless efforts to develop higher education and research in India. The following activities are supported through this endowment fund:

- To support the educational needs of the children of staff members Tech Kids who work on IITM campus.
- To support socially relevant projects

**To support the educational needs of the children of staff members Tech Kids who work on IITM campus.** The Tech Kids daycare is run under the aegis of the IIT Madras Campus Welfare Trust and has been helped by generous contributions from the IIT Madras Alumni Association. The origins of Tech Kids trace back to the 1990s when the staff club ran it. A receptionist by the name Roja used to run it at the time with six children. Around 1997, with the initiative of Prof. Natarajan (then the Director), it received official recognition from the Institute. It was christened "Day Care cum Child Activity Centre (CAC)" with Prof. Hema Murthy as its first chairperson. It was initially run in a shed and employed a teacher and six helpers. This year this endowment funds were used to help the children of the workers of the Tech Kids daycare.



### Socially Relevant Projects

Our team is working along with the principal in charge in developing a portal to collect the various proposals for the Socially Relevant Projects from various professors at our institute. Once this is complete, we will select the recipients after reviewing all the proposals.

# WE ARE GRATEFUL TO YOU DR. PRABHAKAR RAGHAVAN, MRS. SRILATHA RAGHAVAN AND FAMILY



Thank you for your sustained generosity to IIT Madras over the years. Contributors such as yourself enable our students and Professors to dream big and work towards a better and brighter future. We hope you are proud of your alma mater and how it has remained steadfastly committed to academic and research excellence during and after your time here. You and your family have been instrumental in facilitating this significant growth.

Our efforts to nurture the culture of academic excellence that is the hallmark of IIT Madras - quality education, cutting-edge research, and unfettered creativity - shall continue. We are privileged and humbled to have you and your family walking with us along this trail. We wish you and your family the best always in all walks of life!



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