



*Tamil Nadu  
is an unparalleled  
pioneer state in the  
information technology  
sector in India.*



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# CEO's Message



Consistency is the DNA of mastery – Robin Sharma

Bridge series of conferences started humbly way back on 16 February 2011 with the theme “skills for future and the need for innovation and entrepreneurship”. The initiative kicked-off with a clear objective of bridging the industry-academia gap by providing a platform for all the stakeholders to discuss on improving the industry-institute interaction, primarily on the key issues of future of work, role of technology, innovation etc. With such well-laid foundation and the involvement of all the stakeholders from the government, industry, and academia, it has been a great march evolving into a skilling movement from just being a conference series.

14 March 2023, after 4410 days since inception, it is indeed a moment of history etched in the annals of ICT Academy of Tamil Nadu for having organized the 50th edition presided by the Hon’ble Chief Minister of Tamil Nadu.

Bridge conference series still gleams as the most sought-after industry-institute interaction initiative across the country. We have been making consistent efforts to ensure that the initiative serves its purpose by taking the discussion to address the various dimensions of the prevalent issues and progress towards building the State as the talent destination.

At this juncture, ICT Academy thanks the government, the stakeholders from all quarters, the sponsors, and the participants for being along with us all through this journey. We are poised to serve better with all your support and participation.

Lastly, I humbly express that our strength has grown to strength by supporting Uimage Chennai, Global Technology, Entrepreneurship & Skills Summit happened at Chennai Trade Centre, between 23-25 March 2023. Executing such huge event is the result of the consistent efforts of ICT Academy in organizing large conference series over a decade.

This issue of ICT Connect, features the various iconic moments of the 50th edition of the Bridge conference, and Uimage Chennai for the readers.

Happy Reading!

**Hari Balachandran**  
Chief Executive Officer, ICT Academy

# Write on ICT Connect

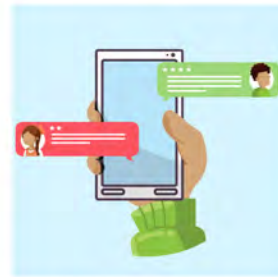
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# INSIDE



**6** VISION BOARDS -  
YOUR FUTURE  
IN YOUR HANDS?



**7** CHALLENGES  
FACED BY ME AS AN  
ENTREPRENEUR!



**8** NO PLACE FOR RIGIDITY  
IN MANAGEMENT  
COURSE CURRICULUM  
IN A VUCA WORLD!



**9** HER-IT-AGE



**10** ICT ACADEMY BRIDGE  
50TH EDITION  
CHENNAI



**20** LAUNCH OF  
SPECIAL ISSUE ON  
IICT2023

## ICT Connect

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# VISION BOARDS - YOUR FUTURE IN YOUR HANDS?

Vision boards are a collection of pictures arranged in a way to help you visualize & manifest your goals. This can be done in physical or digital format. Vision boards bring in clarity and helps us visualize all our goals but finally hard work that we put towards each of our goal is what matters.



**Smitha Jacob Kandathil**  
Sr. Advanced Project Engineer  
Honeywell, HBT


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# CHALLENGES FACED BY ME AS AN ENTREPRENEUR!

One of the biggest challenges that I personally faced was acceptance. I was not sure if people would accept me, as there were already bigger players in the market, doing things similar to our business idea, and even they were facing tough times.



Devesh Chawla  
Founder & CEO  
Chatur Wealth & Chatur Ideas

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A background image showing a group of business professionals in a meeting. They are seated around a table, looking at documents and charts. One person in the foreground is holding a pen and pointing at a document. The scene is brightly lit, suggesting an office environment.

# THERE'S NO PLACE FOR RIGIDITY IN MANAGEMENT COURSE CURRICULUM IN A VUCA WORLD!

Modifying the curriculum because the circumstances demand such would work in the best interests of students by raising their employability quotient and ensure that they are not found wanting when it comes to the set of skills that a corporate is on the lookout for among fresh hires in a new business setting.



**Sumali Moitra**  
Advisor,  
R M Consulting, Gurgaon

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# HER IT AGE

Let your personality speak for you. If you are bold, be it; if you are quiet maintain it; if you are funny flaunt it, if you are stylish show it! Truly there is no “Magic formula” that works for all.





**Vidya Prabhu**  
Associate Director  
Global Delivery, IBM Cloud,  
Cloud Practice, Kyndryl

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**ICT ACADEMY**  
 OF TAMIL NADU  
 **BRIDGE'23**  
 BUILDING HUMAN CAPITAL FOR A TRILLION-DOLLAR DIGITAL ECONOMY

**ICT Academy Bridge - 50th Edition**  
**A HIGH-IMPACT INDUSTRY-INSTITUTE INTERACTION EVENT**  
**'Building Human Capital for a Trillion Dollar Digital Economy'**  
 14 March 2023, Chennai Trade Centre, Chennai.

ICT Academy of Tamil Nadu organized the 50th Edition of the BRIDGE conference themed as 'Building Human Capital for a Trillion Dollar Digital Economy', was held on 14 March 2023 at Chennai Trade Centre, Chennai.

The mega industry-institute interaction event happened as the convergence of policymakers, industry leaders, and academicians with the aim to tap Tamil Nadu's vast human capital to achieve its target of a \$1 trillion economy by 2030, sharing strategic perspectives and insights into the latest human capital development practices across the globe that helps to uncover what it takes to convert Tamil Nadu's human capital into economic success.



Center - **Thiru M.K. Stalin**, Hon'ble Chief Minister of Tamil Nadu.

Left to CM

- **Thiru. T. Mano Thangaraj**, Hon'ble Minister for Information Technology and Digital Services, GoTN.
- **Thiru. C. V Ganesan**, Tamil Nadu Minister for Labour Welfare and Skill Development, GoTN.
- **J Kumaragurubaran** IAS Secretary of Information Technology and Digital Services, GoTN.
- **Prof T G Sitharam**, Chairman, All India Council for Technical Education.

Right to CM

- **Thiru. T. M. Anbarasan**, Hon'ble Minister for MSME and Tamil Nadu Urban Habitation Development Board, GoTN.
- **Dr J Jeyaranjan**, Vice Chairman of State Planning Commission, GoTN.
- **Priya Rajan**, Mayor of Chennai.
- **Mr. Hari Balachandran**, CEO, ICT Academy of Tamil Nadu.

## Welcome Address Delivery

### **Thiru. J Kumaragubaran, IAS**

Secretary, Information Technology and Digital Services Department, Govt. of Tamil Nadu

Mr Kumaragubaran delivered the welcome address at the 50th edition of ICT Academy BRIDGE conference. He stated that ICT Academy Bridge event provides a unique opportunity for us to come together and explore how we can harness the power of technology to create a better world for all.



## Guest of Honour Address

### **Thiru T. Mano Thangaraj**

Hon'ble Minister for Information Technology and Digital Services, Govt of Tamil Nadu

The Minister stated that Tamil Nadu's economic growth is of utmost importance, and expressed his strong belief that the conference theme, "Building Human Capital for a Trillion-Dollar Digital Economy," as the right topic of discussion at the right time.

On the other hand, he also mentioned that Tamil Nadu is one of India's most prosperous states, with a nearly 300-billion-dollar economy. To reach its goal of becoming a trillion-dollar economy, the Government is sure to tap into State's vast human capital and drive the economic growth.

Finally, he expressed his hope that the Uagine-Chennai 2023 initiative will also position Tamil Nadu in the global arena as the tech and IT destination.



## Special Address

### **Dr J Jeyaranjan**

Vice Chairman, State Planning Commission, Government of Tamil Nadu

The present government aims to empower the people. I am proud to remark that a triple helix effort is being taken by the government to empower the students through the Naan Mudhalvan initiative. Similar to the pillars of ICT Academy, the Government strives to empower the youth of our state. We know that only 22% of students in Tamil Nadu are job-ready. The Naan Mudhalvan Scheme boosts industry-oriented education, research ability, and critical thinking skills among students. It will also narrow the skill gap.

This program functions under the direct supervision of our Hon'ble Chief Minister, Thiru M.K Stalin. Moreover, this scheme will entail teaching students in their chosen subjects/areas, languages, technological know-how, etc. We are working tirelessly towards achieving the goal of making Tamil Nadu a trillion-dollar economy.



A photograph of Thiru. M. K. Stalin, the Chief Minister of Tamil Nadu, speaking at a podium. He is wearing a white shirt and a blue lanyard with 'BRIDGE' and 'ICTACADEMY' text. The podium is decorated with yellow and pink flowers. The background is a blurred blue and green light display.

Chief Guest Address

# Thiru. M. K. Stalin

Hon'ble Chief Minister of Tamil Nadu

Technology has brought the world under one roof today. The greatest application of technological advancement is in the field of education. Information Technology has been making many awe-inspiring changes in our daily lives. Technology has brought about a revolution in all fields.

Hence, information technology should be well utilized in government administration and public service to get the welfare schemes reach people quickly. Our beloved leader, Muthamizharinagar Kalaigiar brought about a great revolution in the field of information technology during his reign. It was during the rule of the Dravida Munnetra Kazhagam that Muthamizharinagar Kalaigiar first laid the IT policy for Tamil Nadu in 1997.

Tamil Nadu is fully equipped with the scientific and social infrastructure and human resources that are essential for IT industry investment. The Dravidian model government is taking all the necessary steps to develop the information technology industry and make full benefits of the government services available to the people and make Tamil Nadu an unparalleled pioneer state in the information technology sector in India.



Under the able guidance of the IT Minister, ICT Academy of Tamil Nadu provides training in various information technologies to higher education teachers and students. ICT Academy of Tamil Nadu (ICTACT) was started in the year 2009 during the Kazhagam period. The Academy's activities focused on faculty development, student skill development, youth development, digital development, industry-institutional research, and journal publications are commendable.

It is also commendable that ICT Academy in collaboration with leading organizations conducts conferences to create awareness about emerging technologies and their importance to educational institutions. Through such seminars, conferences and trainings, students and teachers in Tamil Nadu will get to know emerging technologies and reduce the skill gap in the state. The Government of Tamil Nadu is committed to not only sustaining its growth but also accelerating it in a situation where Tamil Nadu continues to be a leader in the IT sector. Thus Tamil Nadu can achieve the twin benefits of economic prosperity and increased employment.

Mano Thangaraj, who took charge as the Minister of IT and Digital Services Department and has been working tirelessly for its development. He is an energetic person who proactively take up new initiatives. He has announced that all government departments such as medicine, education, agriculture, and other government departments are going digital. I would like to take this opportunity to express my appreciation and best wishes to Hon'ble Minister Thiru. Mano Thangaraj and the officers of this department who have such a vision.



## Vote of Thanks

### **Mr. Hari Balachandran**

CEO, ICT Academy of Tamil Nadu

Hari Balachandran, CEO of ICT Academy of Tamil Nadu delivered the Vote of Thanks at ICT Academy BRIDGE'23 and thanked the Hon'ble Chief Minister of Tamil Nadu Thiru. M.K. Stalin for gracing the occasion amidst his busy schedule. He also thanked Thiru T Mano Thangaraj, Hon'ble Minister for Information Technology & Digital Services, Government of Tamil Nadu, and other dignitaries of the day.

## Special Address

### **Education & Skill Development at the Centre of Economic Development Strategy.**

#### Speakers:

- **Prof T G Sitaram**, Chairman, AICTE and Kirti Seth, CEO, NASSCOM.
- **Kirti Seth**, Chief Executive Officer, SSC NASSCOM

### **Prof T G Sitaram**

Chairman, AICTE and Kirti Seth,  
CEO, NASSCOM.

Prof T G Sitharam, emphasised the importance of education & skill development which acts as a tool for economic development. He mentioned the significance of National Educational Policy; also he stated that building a culture of research and innovation as the need of the hour. Further, Prof. T G Sitharam, Chairman, AICTE, talked about reforms in education and rethinking of exam patterns that will help develop multidisciplinary abilities as specified in the new National Education Policy 2020 (NEP).



### **Kirti Seth**

Chief Executive Officer,  
SSC NASSCOM

Speaking about the importance of skills and emerging technologies Kirti Seth said that we are in need of imparting niche technology skills from AI to 3D printing, and professional skills such as Problem-Solving, Communication and Storytelling. More to this, we need to work on building talent at scale with diversity in the workplace and refining the hybrid work model to make India as the Digital Talent Nation.



## Industry Keynotes – Aligning Institutions to Emerging Technologies

Speakers:

- **Suresh Venugopal**, President, Cambridge, Mobile Telematics
- **Karthikeyan** - Materials Management, Nokia Solutions and Networks
- **Anand Ramachandran**, Game Designer, Founder, and CEO of Bigfatphoenix Pvt Ltd

### Suresh Venugopal

President, Cambridge, Mobile Telematics

Mobile Telematics mentioned that bridging the gap between the industry requirement and the skills of the students is the need of the hour. He stated that institutions should develop an industry-aligned flexi curriculum. The curriculum would not only create human resources with innovative and technical skills but also build leadership qualities and ethical and moral values.



### Karthikeyan

Materials Management, Nokia Solutions and Networks

Karthikeyan said that skilling should not only be focused on making the workforce; we have to build entrepreneurs for society. Entrepreneurs are much required for the country to progress.

### Anand Ramachandran

Game Designer, Founder, and CEO of Bigfatphoenix Pvt Ltd

Anand Ramachandran shared his thoughts on how games help us develop non-cognitive skills and cognitive skills. Further, he said that is a potential for a new generation of educational games that enable students to interact and make choices.



## Industry Keynote - Future Talent Requirement and Human Capital Development



### Sudeep

Global Head - HR, TCS

Sudeep spoke on how to democratize hiring to identify the right talents across the country. Also, he mentioned that hiring students from tier II and III zones would boost their talent and productivity.

Also, different hiring approaches would invigorate the learning spirit, eventually building the skill level of the talent pool.

### Sujith Kumar

AVP & HR Business Leader, Infosys

Sujith Kumar spoke on the Future Talent Requirement and Human Capital Development. He said that the future of talent is significantly changing with the advent of unicorns and industry biggies and the kind of money thrown into the talent market is dispersed. Skills will always take a driver seat ahead of degrees or the cover of a reputed institutions. Soft skills and technical skills gain importance. Academia should realize that each student has different innate potential, unearth it and coach them with the ability to develop their aspiration as they learn their core skills.



### Joel Vasanth

Vice President, BNP Paribas GSO

Stated that India is evolving in every aspect of technology. Also, he mentioned creativity and problem-solving skills will be of utmost importance. He also spoke about Naan Mudhalvan initiative, which will foster the basic skills among students on a large scale.

On the other hand, he spoke about how the government has innovated ways for the corporates to be benefited in identifying fresh trained talents, who are future-ready to meet the increasing demands on the right skills.





## Industry Keynote – “Collaborating for Success: Best Practices for Industry-Academia Partnerships”

### Dr. Velraj

Vice Chancellor, Anna University

Dr. Velraj Spoke on the demand for skill development courses, especially among engineering students, to enhance their employability.

Further, Dr. Velraj said that Naan Mudhalvan initiative is to upskill the students in association with the Tamil Nadu Skill Development Corporation (TNSDC), and added that, TNSDC has roped in industry experts, who will act as master trainers and impart training to the students.



### Deepankar Bhattacharyya

Head - India & ASEAN Education Experiences, Autodesk

Deepankar Bhattacharyya shared his views on industry trends and mentioned the changing job roles due to emerging technologies. He laid thrust on the need that the curriculum should be blended with foundation skills and industry needs. Deepankar concluded by stating that the next generation should be inspired, engaged, and prepared for the future.

### Dr. S Vaidhyasubramaniam

Vice Chancellor, SASTRA University

Dr. S Vaidhyasubramaniam said that collaboration with academia and the industry in an efficient manner will facilitate the exchange of best practices, knowledge, and practical know-how, which will help us to mitigate the prevailing skill gap across the state. If only relationship between academia and industry is built for the long-term, it will bear fruit for the beneficiaries.





## Arvind Thothadri,

Vice President, Automation Anywhere

Automation Anywhere has been in the industry for 20 years and has grown to become one of the most successful automation enterprises in the world. With over 5000 and 3000 partners, we run 100 million Cloud bots a year. Our vision is to fuel the future of work by unleashing human potential. To make this possible, embracing emerging technologies is essential. Gartner estimates a \$15 Trillion dollar contribution to the global GDP by A.I and Automation by the year 2030.

Automation Anywhere has been very active in contributing to creating awareness of RPA, and building learning subscriptions, and today we have reached more than 1500 academic institutions in 12 countries to make career opportunities for students. The partnership with ICT Academy has helped us reach 1.5 million in training completion and amplify the reach of automation among students through initiatives like Learnathon. We are glad that our work is appreciated by the government and academia. We are excited to explore more avenues to collaborate and cultivate the future workforce.

## MOU Exchange



ICT Academy of Tamil Nadu signed memoranda of understanding with Tamil Nadu Adi Dravidar Housing and Development Corporation Ltd. (TAHDCO) to train 6,000 SC/ST unemployed youths in job-oriented skills with relevance to the Information Technology and IT enabled services (ITeS), banking, financial services and insurance, retail and telecom on Tuesday (14 March 2023) in the presence of Thiru M.K. Stalin, Hon'ble Chief Minister of Tamil Nadu at the 50th edition of ICT Academy Bridge'23.

ICT Academy of Tamil Nadu signed memoranda of understanding with Advanced Manufacturing Technology Development Center to prepare the talent pool in Tamil Nadu for industry 4.0 technologies, including automation and mechatronics, motion control, robotics and machine tools. This MoU was signed at the 50th edition of ICT Academy Bridge'23 in the presence of Hon'ble Chief Minister of Tamil Nadu Thiru M.K. Stalin.

This partnership will benefit around 500 engineering institutions in the State, generating employment for 2.5 lakh youth.



# Lydian Nadhaswaram

Lydian Nadhaswaram, the stellar musician and multi-instrumentalist received the “Youth Inspirational Award 2023” and was honored at the hands of the Hon’ble Minister for Information Technology and Digital Services, Government of Tamil Nadu, Thiru. T. Mano Thangaraj at the 50th edition of ICT Academy Bridge’23. Additionally, Lydian Nadhaswaram left the audiences awe-struck with his astounding piano performance.





## LAUNCH OF SPECIAL ISSUE ON INNOVATION AND INTELLIGENCE FOR COMPUTING TECHNOLOGIES (IICT2023)

ICT Academy in partnership with Umanage Chennai - Technology, Entrepreneurship and Skills Summit was organized by Government of Tamil Nadu and ELCOT in association with ICT Academy, announced a special issue on “Innovation and Intelligence for Computing Technologies (IICT2023)” to be published in ICTACT Journal on Soft Computing, a UGC Care Indexed Journal.

162 research papers were received from Research Scholars, Academicians, Scientists, PhD Students, Researchers, Engineers in Industry from countries such as India, Spain, Australia, and USA.

Initially, a Technical Advisory committee was formed with representations from renowned institutions across India.

### Technical Advisory Committee



**Dr. Gadadhar Sahoo**  
Indian Institute of  
Technology (ISM),  
Dhanbad



**Dr. Rajeev Gupta**  
Rajasthan Technical  
University



**Dr. S Balasubramanian**  
Sri Sathya Sai Institute of  
Higher Learning



**Dr. Sandhya Harikumar**  
Amrita Vishwa  
Vidyapeetham, Amritapuri



**Dr. Umesh C Pati**  
National Institute of  
Technology, Rourkela



**Dr. A.M. Kalpana**  
Government College of  
Engineering, Salem



**Dr. D. Jeya Mala**  
Vellore Institute of  
Technology, Chennai



**Dr. R. Baskaran**  
College of Engineering,  
Guindy Campus,  
Anna University, India

From all the 162 papers received, the committee reviewed the papers for relevance, originality, clarity, and potential value and funneled down to a total of 13 papers that were published in the journal.

Subsequently, 5 research articles were selected for a presentation at the Research Publication - Special Issue Launch & Paper Presentation session during the Umanage Chennai conference. An exclusive jury panel was appointed to evaluate the presentations.

## Jury Panel



**Dr. G. Sainarayanan**  
Technology Director,  
HCL Technologies Ltd,  
Chennai, India



**Dr. Madhavan Mukund**  
Director,  
Chennai Mathematical Institute,  
India



**Dr. R. Baskaran**  
College of Engineering,  
Guindy Campus,  
Anna University, India

## Best Research Article Award



**Cash Price 1 - INR 50,000/-**

**P. Helmholz et.al.**

“Detection of Breakwater Failure Modes from Photogrammetric Derived Point Clouds – A Case Study for Bunbury Port, Western Australia”, Curtin University, Australia.

**Cash Price 2 - INR 30,000/-**

**Preethi N Patil, Andhe Dharani  
and S Anupama Kumar**

“Tensorflow based Prediction Model for Classifying Human Blood Smear Microscopic Images as Indicating Presence of Malaria Parasite”, RV College of Engineering, Karnataka, India.



**Cash Price 3 - INR 20,000/-**

**Venkata Raghava Kurada and  
Pallav Kumar Baruah**

“Blockchain Enabled, Collaborative Platform for AI as a Service”, Sri Sathya Sai Institute of Higher Learning, Andhra Pradesh, India.



## Editorial Team

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Research Publications,  
Quality & Audit,  
ICT Academy

**Dr. N. Yuvaraj**  
Manager  
Research Publications,  
ICT Academy

**R. Arshath Raja**  
Senior Associate  
Research Publications,  
ICT Academy



1. Who among the following was the chairperson of the Provincial Constitution Committee of the Constituent Assembly?  
A. Jawaharlal Nehru  
B. Sardar Vallabhbhai Patel  
C. Dr. B.R. Ambedkar  
D. J.B. Kripalani
2. Who among the following headed the Advisory Committee on Fundamental Rights, Minorities and Tribal and Excluded Areas a committee under the Constituent Assembly?  
A. Jawahar Lal Nehru  
B. Vallabhbhai Patel  
C. H C Mukherjee  
D. R C Majumdar
3. Who among the following was the Constitutional Advisor to the Constituent Assembly?  
A. Sachidanand Sinha  
B. B N Rao  
C. H N Kunzuru  
D. V N Menon
4. On which date Indian Constitution was finally signed by the members of the constituent assembly?  
A. November 26, 1949  
B. January 24, 1950  
C. January 26, 1950  
D. January 24, 1949
5. 119-million-year-old skeleton of 'Confuciusornis shifan' bird has been found in which country?  
A. India  
B. Australia  
C. China  
D. Argentina

*Answers for Previous Issue*

1) B    2) B    3) C    4) A    5) A

# Call for Paper

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Kemi Yekini, University of Nottingham,  
United Kingdom

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