

IT matters

Advancing quantum technology in India

Quantum AI Global (QAIG) India's leading organisation in quantum communication technology, and Q-CTRL the global leader in quantum infrastructure software have announced a strategic partnership to work on various technology initiatives in India - one of the fastest growing technology markets in the world.

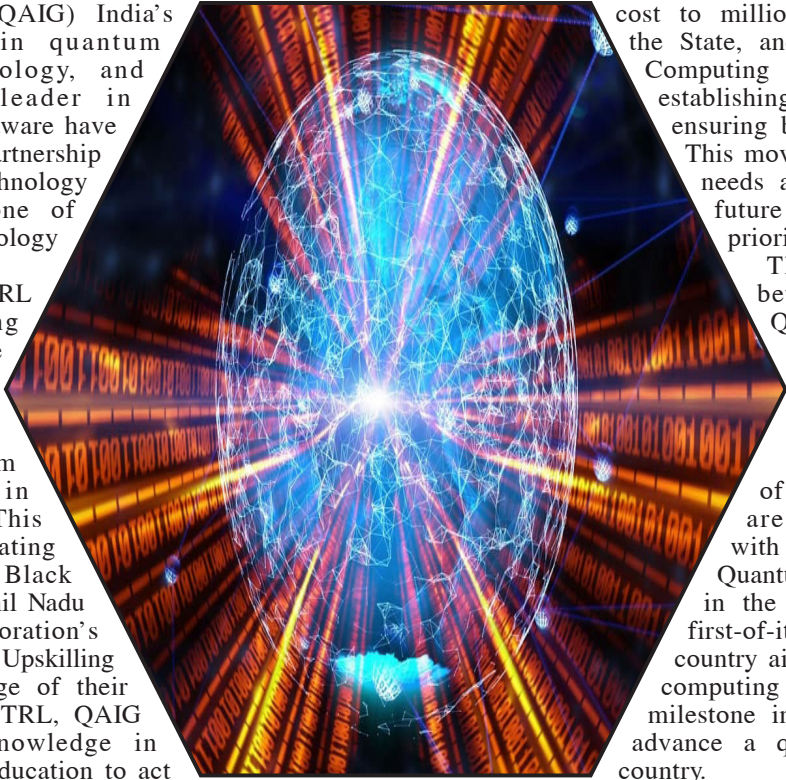
Earlier this month, Q-CTRL announced a pioneering quantum workforce development initiative in India, making Tamil Nadu the first in the world to mandate Quantum Computing education in technical universities. This was achieved by integrating Q-CTRL's cutting-edge Black Opal software into the Tamil Nadu Skill Development Corporation's (TNSDC) Naan Mudhalvan Upskilling Platform. In the first stage of their new partnership with Q-CTRL, QAIG will utilize its vast knowledge in quantum technology and education to act as the support and expansion partner for Q-CTRL's Black Opal platform at TNSDC and across India.

The global quantum workforce is drastically understaffed, as evidenced in a McKinsey report predicting that less than half of projected quantum computing jobs will be filled by 2025.

To close the quantum skills gap, talent will need to be tapped from around the globe, and India will be a key contributor to building the quantum economy.

This strategic collaboration aims to provide high-quality, hands-on quantum computing education to hundreds of thousands of university engineering students and recognizes Tamil Nadu as a leader in the burgeoning quantum technology industry.

Naan Mudhalvan makes essential job skills available at no



cost to millions of engineering students across the State, and TNSDC has mandated Quantum Computing education to technical universities, establishing Tamil Nadu as a global pioneer in ensuring broad access to quantum education. This move addresses India's future workforce needs and lays the foundation for India's future in Quantum, a critical national priority.

The new strategic collaboration between Quantum AI Global and Q-CTRL sets the stage for a significant advancement in the democratization of quantum education and directly supports India's National Quantum Mission.

Sanjay Chittore, CEO & founder of Quantum AI Global said, "We are extremely excited to partner with Q-CTRL for the development of Quantum skills and technical infrastructure in the country. The implementation of a first-of-its-kind foundational program in the country aims to introduce students to quantum computing technology. This effort is a critical milestone in QAIG's mission to cultivate and advance a quantum-aware work force in the country.

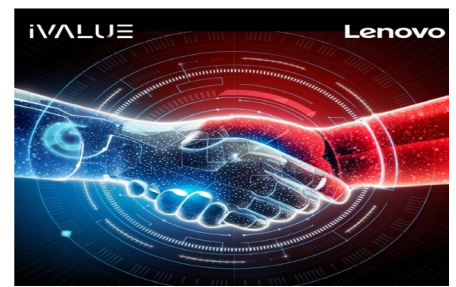
With this alliance we will be shaping the future and ensuring that India remains at the forefront of this technological revolution."

According to Aravind Ratnam, chief strategy officer, Q-CTRL, "Quantum AI Global are the perfect partners for this initiative and we are confident that together we will propel the growth of Quantum Technology in India. Quantum AI Global have recognized expertise in quantum technologies and a proven track record in delivering quantum skill training.

We are honored to serve TNSDC's Naan Mudhalvan scheme, but this is just the beginning - our broader vision is to advance India's competitive position in the development and adoption of quantum technology through our partnership."

iValue, Lenovo to accelerate digital transformation

iValue Group, the fastest-growing strategic technology advisor, has announced its partnership with Lenovo, a global technology powerhouse. The partnership will make Lenovo's comprehensive Infrastructure Solutions Group (ISG) portfolio available to businesses across India, accelerating digital transformation initiatives.



infrastructure, enterprise-grade hardware, and specialized offerings for AI, VDI, and big data workloads.

Amit Luthra, MD - India, Infrastructure

Solutions Group, added, "We are delighted to partner with iValue Group to deliver Lenovo's advanced infrastructure solutions to businesses across India. This collaboration accelerates AI and intelligent transformation, providing flexible and high-performance innovative solutions like Lenovo TruScale Neptune cooling to enterprises of all sizes. Together, we empower Indian enterprises to drive digital transformation and achieve industry-leading results."

Lenovo ISG offers seamless integration and security, backed by complete supply chain ownership. The partnership also introduces Lenovo TruScale Infrastructure Service and industry leading Neptune™ Liquid Cooling for high-performance computing (HPC) to the Indian market, providing flexible, consumption-based 'pay-as-you-go' offerings for data center solutions.

The strategic alliance is designed to overcome the limitations often encountered with conventional cloud service providers, ensuring that businesses have access to agile and tailored cloud technologies that can keep pace with modern business needs.

Acknowledging the rapidly shifting digital ecosystem, iValue Group and Lenovo ISG have joined forces to address a critical market need. Their partnership aims to deliver cutting-edge, budget-friendly cloud management solutions that emphasize flexibility, high-performance, and robust data protection.

Srikanth Shitole, CEO of iValue Group, said, "At iValue, we are committed to empowering Indian enterprises with cutting-edge technology solutions. Partnering with Lenovo allows us to offer their world-class infrastructure portfolio, including the innovative ThinkAgile, ThinkEdge, and ThinkSystem lines. This aligns perfectly with our mission to drive digital transformation and deliver exceptional value to our customers."

The partnership leverages iValue Group's 16 years of experience and robust services capabilities to add unique value to Lenovo's business in the region. Organizations can now access Lenovo's smart infrastructure solutions, encompassing software-defined



Platform for students to explore STEM skills

Robotex India Championship 2024 took place in an environment filled with future technology such as a Waste Segregator for Landfills, an Earthquake Detection Robot, a firefighter robot that is ready to put out a fire, a robot that solves puzzles with its ingenuity. Technologically skilled school and college students from various states including Maharashtra showed glimpses of their robotics, and AI prototypes in this competition.

The annual Robotex India Championship 2024 was organised this year at the World Peace Dome, MITADT University, Loni Kalbhori, Pune. Around 2,000 student participants from Zilla Parishad and Municipal Corporation schools in rural areas of Maharashtra to national level students from various states, participated in the competition. Competitions were held in various categories such as Line Follower, Maze Solver, Robo Sumo, Entrepreneurship,

and Girls Fire Fighting. In this, the skill of the students, especially in primary and secondary schools, was applauded.

Payal Rajpal, director of Robotex India, said "60 per cent of the students in this competition are from Government schools. This competition has been organised to provide these students with a platform to showcase their technological skills, and STEM knowledge which they learn all academic year in school. Last year, students from nine Zilla Parishad schools in Maharashtra got an opportunity to compete at the international championship with participants from over 57 countries". The winning students of this competition will participate in the Robotex International Championship 2024 to be held in Estonia, Europe in December.

Anjali Byce, group chief human resource officer, Sterlite Technologies Limited, title sponsor of the competition said "Our

main objective is to provide STEM and Technology education to students and give them opportunities at the national and international competitions, bridging the digital divide. We have impacted over 6000 students in schools located in Chhatrapati Sambhajnagar and Silvassa."

Pinky Rajpal, FICCI FLO Pune Chapter chair, said that more than 2000 students from different parts of the country have participated in this competition. We are happy about it. These are the students who will put India on the map of science and technology.

Ali Khan director IT governance, Risk ZS India, "We have been associated with the Robotex India initiative and the competition for four years, we have supported three hundred students through CSR. This initiative is mainly to provide genderinclusive, equal access to technology education for school students. It is certainly a matter of pride that the

students are getting a platform on a large scale through this competition.

Saroj Kumar Aapto, vice president, of the Electronics Sector Skills Council of India, said, that participation in such competitions improves the scientific skills of the students, that's why we are supporting competitions like the Robotex India Championship at regional, national, and international levels. Successful students in this competition will get an opportunity to show their talent at the international level. So, in a way, students will be able to show their technology skills along the lines of the Olympics.

Prakash Kumar Das of WNS Company said that through the Robotics India Championship, we are trying to provide students with various opportunities in the STEM field. So far six lakh students have got opportunities through WNS company.

Common push puppet toys in the shapes of animals and popular figures can move or collapse with the push of a button at the bottom of the toys' base. Now, a team of UCLA engineers has created a new class of tunable dynamic material that mimics the inner workings of push puppets, with applications for soft robotics, reconfigurable architectures and space engineering.

Inside a push puppet, there are connecting cords that, when pulled taut, will make the toy stand stiff. But by loosening these cords, the "limbs" of the toy will go limp. Using the same cord tension-based principle that controls a puppet, researchers have developed a new type of metamaterial, a material engineered to possess properties with promising advanced capabilities.

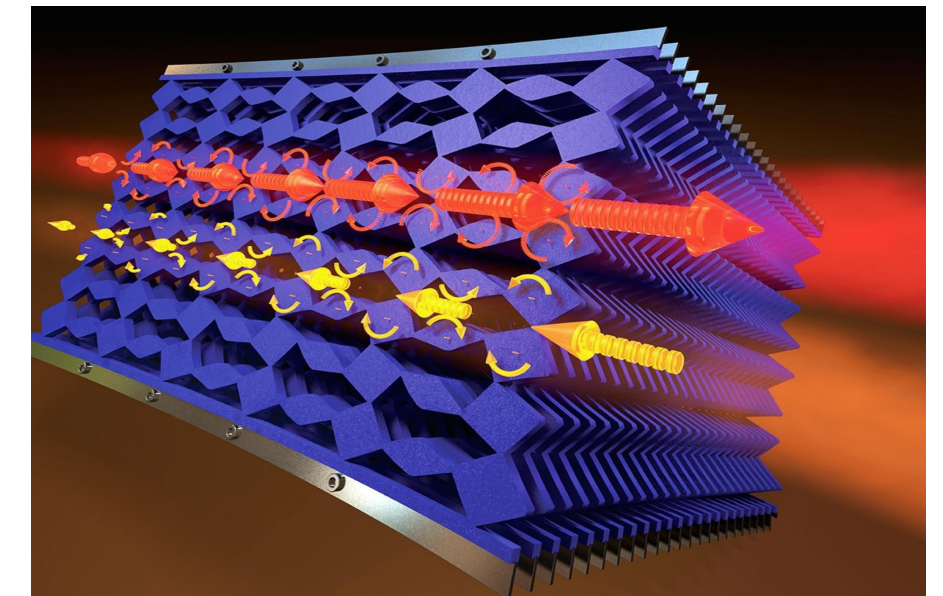
The UCLA study demonstrates the new lightweight metamaterial, which is outfitted with either motor-driven or self-actuating cords that are threaded through interlocking cone-tipped beads. When activated, the cords are pulled tight, causing the nesting chain of bead particles to jam and straighten into a line, making the material turn stiff while maintaining its overall structure.

The study also unveiled the material's versatile qualities that could lead to its eventual incorporation into soft robotics or other reconfigurable structures:

1. The level of tension in the cords can "tune" the resulting structure's stiffness -- a fully taut state offers the strongest and stiffest level, but incremental changes in the cords' tension allow the structure to flex while still offering strength. The key is the precision geometry of the nesting cones and the friction between them.

2. Structures that use the design can collapse and

Vintage toys inspire soft robotics metamaterials



stiffen over and over again, making them useful for long-lasting designs that require repeated movements. The material also offers easier transportation and storage when in its undeployed, limp state.

3. After deployment, the material exhibits pronounced tunability, becoming more than 35 times stiffer and changing its damping capability by 50%.

4. The metamaterial could be designed to self-actuate, through artificial tendons that trigger the shape without human control.

"Our metamaterial enables new capabilities, showing great potential for its incorporation into robotics, reconfigurable structures and space engineering," said corresponding author and UCLA Samueli School of Engineering postdoctoral scholar Wenzhong Yan. "Built with this material, a self-deployable soft

robot, for example, could calibrate its limbs' stiffness to accommodate different terrains for optimal movement while retaining its body structure. The sturdy metamaterial could also help a robot lift, push or pull objects."

"The general concept of contracting-cord metamaterials opens up intriguing possibilities on how to build mechanical intelligence into robots and other devices," Yan said.

A 12-second video of the metamaterial in action is available here, via the UCLA Samueli YouTube Channel.

Senior authors on the paper are Ankur Mehta, a UCLA Samueli associate professor of electrical and computer engineering and director of the Laboratory for Embedded Machines and Ubiquitous Robots of which Yan is a member, and Jonathan Hopkins, a professor of mechanical and aerospace engineering who leads UCLA's

Flexible Research Group.

According to the researchers, potential applications of the material also include self-assembling shelters with shells that encapsulate a collapsible scaffolding. It could also serve as a compact shock absorber with programmable dampening capabilities for vehicles moving through rough environments.

CHANGE OF NAME

I, hitherto known as ANITHA IRIS daughter of SIVA CHRISTOPHER wife of OSBORN OLIVER residing at Flat No 14, O No 51, N No 44, 5th Cross Street, Trustpura, Kodambakkam, Chennai, Tamil Nadu 600024 have changed my name and shall hereafter be known as ANITHA IRIS OSBORN

CHANGE OF NAME

I, VIMALANATHAN THAINESRAJ son of THAINESRAJ residing at 2/637, Maviduthikkottai, Sivaganga, Devakottai, Tamil Nadu 630303 have changed the name of my minor daughter GYANA KRITI, Aged 11 months, and she shall hereafter be known as GYAANA TRIPTI

SHIVALIK SMALL FINANCE BANK LTD.
Registered Office : 501, Salcon Aarum, Jasola District Centre, New Delhi - 110025
CIN : U65900DL2020PLC366027

AUCTION NOTICE

The following borrowers of Shivalik Small Finance Bank Ltd. are hereby informed that Gold Loan/s availed by them from the Bank have not been adjusted by them despite various demands and notices including individual notices issued by the Bank. All borrowers are hereby informed that it has been decided to auction the Gold ornaments kept as security with the Bank and accordingly 28.08.2024 has been fixed as the date of auction at 03:00 pm in the branch premises from where the loan was availed. All, including the borrowers, account holders and public at large can participate in this auction on as per the terms and conditions of auction.

Branch	Account No.	Actt Holder name	Father's/ Spouse Name	Address	Ac opening Date	Payoff
CHENNAI	101042519284	PRESHANTH SRIDHAR	S/O SRIDHAR K R	K R 11, MALONY ROAD,THIYAGARAYA NAGAR,TAMILNADU600017	08/12/2023	317548.04

Auction date is 28.08.2024 @ 03:00 pm

The Bank reserves the right to delete any account from the auction or cancel the auction without any prior notice.

Authorised Officer, Shivalik Small Finance Bank Ltd.