



KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)



DEPARTMENT OF COMPUTER SCIENCE (UG)
DBT STAR SPONSORED DEPARTMENT

NEWS CORNER

Date: 1.8.2024

“FUTURE GCC REVENUE“

By 2030, GCCs will bring \$121 bn in revenue, driving 3.5% of India's GDP. Economic Survey 2024 revealed that expansion and investments into setting up Global Capability Centers or GCCs by multinational companies are set to contribute roughly 3.5 percent of India's GDP by 2030, generating an estimated revenue of \$121 billion by then. GCCs in the past couple of years have seen an historic uptick in India, providing bespoke services in operation, product development and innovation. More than 150 MNCs have set up their GCCs in the country, increasing the number from 760 GCCs present in 2012, to over 1,600 GCCs as of JUNE 2024. These investments are coming not just from the US and Europe-based MNCs, but also international players from the Asia Pacific region, especially Japan and South Korea, have begun setting up their R&D/ innovation centres in India over the past few years.

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NEWS CORNER

Date: 2.8.24

“NEW GEN AI TRAINER“

HCLTech, IBM announce Gen AI centre of excellence; will train 10,000 employees. The Gen AI COE will be based on IBM's Watson x AI and data platform. HCLTech and IBM on July 2 announced a new partnership to set up a generative AI Centre of Excellence (COE) based on IBM Watson x AI and data platform. The CoE will be available through HCLTech's AI and Cloud Native Labs in Noida, London and New Jersey and Santa Clara in the US. It will enable enterprises to modernize legacy applications, develop IT service management (ITSM) use cases, reduce coding complexity, improve skill development on the IBM watsonx™ platform. This expansion of our work with IBM will facilitate rapid exploration of AI's potential as we create highly differentiated HCLTech offerings using the latest IBM technology.

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NEWS CORNER

Date: 5-8-24

“SPIN QUBITS GO TRAMPOLINING”

Researchers at QuTech developed somersaulting spin qubits for universal quantum logic. This achievement may enable efficient control of large semiconductor qubit arrays. The research group published their demonstration of hopping spins in Nature Communications and their work on somersaulting spins in Science. Qubits based on quantum dots are studied worldwide as they are considered a compelling platform for the construction of a quantum computer. The most popular approach is to trap a single electron and to apply a sufficiently large magnetic field, allowing the spin of the electron to be used as a qubit and controlled by microwave signals. In this work, however, the researchers demonstrate that no microwave signals are needed.

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NEWS CORNER

Date: 6.8.24

“NEW FIRE RESCUE DRONE“

At the Indian Institute of Technology (IIT) Dharwad, a groundbreaking team lead by Sudheer Siddapureddy and Ameer Mulla created a fire rescue assistant drone that was shown off. This is a new step forward in fire safety. At the DDANFR 2024 training on Drone Design and Autonomous Navigation in Fire Rescue, which took place over two days and was funded by the NMICPS, Government of India and the TIHAN Foundation, this new idea was shown off. The drone is designed to be able to fly through small rooms and high temperatures, which is important for fighting fires in complicated places. Prof. Siddapureddy talked about the difficulties of making a gadget that is so small and strong at the same time. The Fire and Thermal Research Laboratory (FTRL) made important contributions.

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NEWS CORNER

Date: 07.08.2024

“SELF POWERED BUGS“

Self-powered 'bugs' can skim across water to detect environmental data. Devices could run on ocean bacteria and revolutionize aquatic robotics. Researchers at Binghamton University, State University of New York have developed a self-powered "bug" that can skim across the water, and they hope it will revolutionize aquatic robotics. Futurists predict that more than one trillion autonomous nodes will be integrated into all human activities by 2035 as part of the "internet of things." Soon, pretty much any object big or small will feed information to a central Choi, along with Anwar Elhadad, PhD '24, and PhD student Yang "Lexi" Gao, developed the self-powered bug. The new aquatic robots use similar technology because it is more reliable under adverse conditions than solar, kinetic or thermal energy systems.

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NEWS CORNER

Date: 08.08.2024

“NEW 3D PRINTING TECHNIQUE“

A new 3D printing method developed by engineers at the University of California San Diego is so simple that it uses a polymer ink and salt water solution to create solid structures. The work, published in Nature Communications, has the potential to make materials manufacturing more sustainable and environmentally friendly. This rapid solidification is driven by a phenomenon called the salting-out effect, where the salt ions draw water molecules out of the polymer solution due to their strong attraction to water. This removal of water causes the hydrophobic polymer chains in the PNIPAM ink to densely aggregate, creating a solid form. This is all done under ambient conditions, with no need for additional steps, specialized equipment, toxic chemicals, heat or pressure, said study senior author Jinhye Bae, a professor in the Aiiiso Yufeng Li Family Department of Chemical and Nano Engineering.

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NEWS CORNER

Date: 09.08.2024

“IT WILL HIRING MORE“

A survey conducted by recruitment platform Indeed found that IT hiring is set to surge by estimated 8.5% by the next calendar year. Indeed, in the official statement, said that after a slow period late last year and early this year, the demand for skilled IT talent is growing, making it crucial for businesses to plan their hiring strategies for the coming year. According to the survey, about 70% of all tech jobs currently live on Indeed are across software roles. The list of these job postings, is led by application developer role (7.29%), while other roles include software engineer (5.54%), full stack developer (4.34%), senior software engineer (4.22%), PHP developer (2.51%). Per Indeed’s market analysis, the thriving tech startup ecosystem also plays a significant role, as new ventures prioritize hiring developers to build and scale their products.

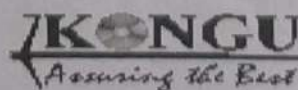
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NEWS CORNER

Date: 12.08.24

“HIGH RESOLUTION MICROSCOPE“

Research team develops high-resolution fluorescence microscope Now, researchers from the Universities of Göttingen and Oxford, in collaboration with the University Medical Center Göttingen (UMG), have succeeded in developing a microscope with resolutions better than five nanometres five billionths of a metre. This is roughly equivalent to the width of a hair split into 10,000 strands. Their new method was published in Nature Photonics. Many structures in cells are so small that standard microscopes can only produce fragmented images. Their resolution only begins at around 200 nanometres. However, human cells for instance contain a kind of scaffold of fine tubes that are only around seven nanometres wide.

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NEWS CORNER

Date: 13.08.24

“ELECTRIC BANDAGE“

Researchers have developed an inexpensive bandage that uses an electric field to promote healing in chronic wounds. In animal testing, wounds that were treated with these electric bandages healed 30% faster than wounds treated with conventional bandages. Chronic wounds are open wounds that heal slowly, if they heal at all. For example, sores that occur in some patients with diabetes are chronic wounds. These wounds are particularly problematic because they often recur after treatment and significantly increase the risk of amputation and death. This project is part of a bigger DARPA project to accelerate wound healing with personalized wound dressings," says Sam Sia, co-corresponding author of the work and professor of biomedical engineering at Columbia University.

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NEWS CORNER

Date: 14/8/24

“NEW ENERGY SOURCE FOR ELECTRONICS“

Researchers at Tohoku University, the National University of Singapore, and the University of Messina developed a novel technology to efficiently harvest ambient low-power radiofrequency (RF) signals into direct-current (DC) power. This 'rectifier' technology can be easily integrated into energy harvesting modules to power electronic devices and sensors, enabling battery-free operation. Existing technologies, such as the Schottky diode, face challenges in terms of low RF-to-DC conversion efficiency for faint ambient RF signals typically less than -20 dBm. To address these challenges, the research team has developed a compact and sensitive rectifier technology that uses a nanoscale spin-rectifier (SR) to convert ambient wireless RF signals that are less than -20 dBm to a DC voltage.

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NEWS CORNER

Date: 16.08.24

“PREMIUM PSTCHOLOGIC TECHNOLOGY“

In a new study, researchers used low-intensity ultrasound technology to noninvasively alter a brain region associated with activities such as daydreaming, recalling memories and envisioning the future. The researchers used low-intensity ultrasound technology called transcranial-focused ultrasound, or TFUS, to alter the default mode network of the brain, a system of connected brain areas that are especially active during activities like daydreaming. We are the first to show that the default mode network can be directly targeted and noninvasively modulated," said lead study author Brian Lord, a postdoctoral researcher in the U of A Department of Psychology. To enhance mindfulness and help people engage more with the current moment, Lord's team used TFUS, a tool that can stimulate specific areas of the brain noninvasively with millimeter precision.

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NEWS CORNER

Date: 17.08.24

“BRAIN ACTIVITY WITH GAME OF THRONES“

Psychologists have used the hit TV series Game of Thrones to understand how the brain enables us to recognize faces. Their findings provide new insights into prosopagnosia or face blindness, a condition that impairs facial recognition. Their findings provide new insights into prosopagnosia or face blindness, a condition that impairs facial recognition and affects approximately 1 in 50 people. The researchers scanned the brains of over 70 study participants as they watched footage from the popular TV series. Half of the participants were familiar with the show's famously complex lead characters and the other half had never seen the series. When lead characters appeared on screen, MRI scans showed that in neurotypical participants who were familiar with the characters, brain activity increased in regions of the brain.

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NEWS CORNER

Date: 19.08.24

“3D PRINTED CELLS“

A team of scientists created a new method to 3D print vascular networks that consist of interconnected blood vessels possessing a distinct "shell" of smooth muscle cells and endothelial cells surrounding a hollow "core" through which fluid can flow, embedded inside a human cardiac tissue. This vascular architecture closely mimics that of naturally occurring blood vessels and represents significant progress toward being able to manufacture implantable human organs. Lab-grown organs are a long-time 'holy grail' of organ engineering that has yet to be achieved, but new research has brought that goal a big step closer to reality using a new 3D-printing method called co-SWIFT. co-SWIFT prints branching networks of double-layered vessels that are infused with smooth muscle cells and endothelial cells into living human cardiac tissue.

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NEWS CORNER

Date: 20.08.24

“ELECTRIC FREE CHARGE“

New battery-free technology to power electronic devices using ambient radiofrequency signals. Researchers demonstrated a novel technique to efficiently convert ambient low-power radiofrequency signals into DC power. This 'rectifier' technology can be easily integrated into energy harvesting modules to power electronic devices and sensors, enabling battery-free operation. Ubiquitous wireless technologies like Wi-Fi, Bluetooth, and 5G rely on radio frequency (RF) signals to send and receive data. A new prototype of an energy harvesting module -- developed by a team led by scientists from the National University of Singapore (NUS) -- can now convert ambient or 'waste' RF signals into direct current (DC) voltage. This can be used to power small electronic devices without the use of batteries.

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NEWS CORNER

Date: 21.08.24

“NEW AIR-POWERED COMPUTER“

A new, air-powered computer sets off alarms when certain medical devices fail. The invention is a more reliable and lower-cost way to help prevent blood clots and strokes all without electronic sensors. Described in a paper in the journal *Device*, the computer not only runs on air, but also uses air to issue warnings. It immediately blows a whistle when it detects a problem with the lifesaving compression machine it is designed to monitor. Intermittent pneumatic compression or IPC devices are leg sleeves that fill with air periodically and squeeze a person's legs to increase blood flow. This prevents clots that lead to blocked blood vessels, strokes, or death. Typically, these machines are powered and monitored by electronics. IPC devices can save lives, but all the electronics in them make them expensive. So, we wanted to develop a pneumatic device that gets rid of some of the electronics

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NEWS CORNER

Date: 22.08.24

“MICROSOFT’S UNIFIED VERSION OF APP“

Microsoft has finally unified the Teams app, allowing users to sign in to their education, personal and work accounts, eliminating the need to install two different versions of the app. In the new app, to add or switch between accounts, all you need to do is click on your profile picture on the top-right corner, and you will be able to seamlessly switch between your education, personal and work accounts. The latest version of Teams also brings in some “quality of life” features aimed at improving the overall user experience. Available for Windows and macOS, Teams will now let you choose your preferred account for joining meetings and even lets you sign in as a guest. Also, you will be able to select any of your accounts when joining a meeting.

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NEWS CORNER

Date: 23.08.24

“STRONGEST US TELECOM HACKED”

Chinese hackers accessed the networks of U.S. broadband providers and obtained information from systems the federal government uses for court-authorized wiretapping, the Wall Street Journal reported on Saturday. Verizon Communications AT&T and Lumen Technologies (LUMN.IO) are among the telecoms companies whose networks were breached by the recently discovered intrusion, the newspaper said, citing people familiar with the matter. The hackers might have held access for months to network infrastructure used by the companies to cooperate with court-authorized U.S. requests for communications data, the Journal said. It said the hackers had also accessed other tranches of internet traffic. At a time when cybersecurity has become a common challenge for all countries around the world, this erroneous approach will only hinder the efforts of the international community to jointly address the challenge through dialogue and cooperation.

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NEWS CORNER

Date: 27/08/24

“NO MORE MISTAKES WITH INDUSTRY ROBOT”

A new algorithm may make robots safer by making them more aware of human inattentiveness. In computerized simulations of packaging and assembly lines where humans and robots work together, the algorithm developed to account for human carelessness improved safety by about a maximum of 80% and efficiency by about a maximum of 38% compared to existing methods. The work is reported in IEEE Transactions on Systems Man and Cybernetics Systems. There are a large number of accidents that are happening every day due to carelessness most of them, unfortunately, from human errors, said lead author Mehdi Hosseinzadeh, assistant professor in Washington State University's School of Mechanical Engineering and technology.

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NEWS CORNER

Date: 28-08-24

“THE NEW XAI“

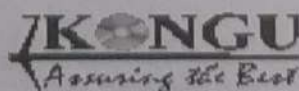
Artificial intelligence (AI) has exploded in popularity. It powers models that help us drive vehicles, proofread emails and even design new molecules for medications. But just like a human, it's hard to read AI's mind. Explainable AI (XAI), a subset of the technology, could help us do just that by justifying a model's decisions. And now, researchers are using XAI to not only scrutinize predictive AI models more closely, but also to peer deeper into the field of chemistry. The researchers will present their results at the fall meeting of the American Chemical Society (ACS). AI's vast number of uses has made it almost ubiquitous in today's technological landscape. However, many AI models are black boxes, meaning it's not clear exactly what steps are taken to produce a result. And when that result is something like a potential drug molecule.

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NEWS CORNER

Date: 29.08.24

“TELEGRAM CEO GOT IMPRISONED“

French Ministry of Justice is weighing Pavel Durov's charges to decide whether he will be placed under formal investigation following his recent arrest as part of a probe into organised crime on the messaging platform. Durov, who was denied on Saturday evening after landing at a Paris airport on a private jet, now faces scrutiny over the potential criminal liability of app providers and the broader debate about the balance between freedom of speech and law enforcement. Telegram boasts nearly 1 billion users and is particularly popular in Russia, Ukraine, and former Soviet republics. Being placed under formal investigation in France does not imply guilt but signals that judges believe sufficient evidence exists to continue the probe. Such investigations can take years to either go to trial or be shelved. If Durov is formally investigated, judges will also consider whether he should be placed in pretrial detention, mainly if there is concern he might flee.

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NEWS CORNER

Date: 30/8/24

“SPACEX’S SECOND STEP-STONE”

SpaceX’s Falcon 9 rocket topples into ocean in failed landing, grounded by FAA
Falcon 9, the world’s first orbital class reusable rocket, is facing a detention for a second time due to its failed landing attempt. Elon Musk led SpaceX’s Falcon 9 rocket has been grounded for the second time this year by federal regulators after it failed to land properly after its satellite launch. On Wednesday, the US Federal Aviation Administration (FAA) said that it would launch an investigation into the incident after a Falcon 9 rocket failed an attempt to land on Earth post routine Starlink mission. Falcon 9, the world’s first orbital class reusable rocket, is facing a detention for a second time due to its failed landing attempt. The grounding of Falcon 9, which is a reusable, two-stage rocket, is a rare phenomenon.

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NEWS CORNER

Date: 31/8/24

“JIO’s NEW AI SERVICES“

Reliance is building huge AI infrastructure and launching an AI service platform to offer powerful generative AI models at affordable prices. At its 47th AGM, Reliance unveiled JioBrain, a new AI service platform that promises to offer powerful generative AI models at the most affordable prices, according to Chairman Mukesh Ambani. The company also announced plans to build a “truly national AI infrastructure” and “gigawatt-scale AI-ready data centres” in Jamnagar, powered by Reliance’s green energy. Reliance also introduced the concept of connected intelligence, powered by the Jio AI Cloud, which stores data and delivers intelligent, personalised solutions via the network. Jio users will receive up to 100 GB of free cloud storage, with additional affordable storage options available starting this Deepavali.

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