



KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)



DEPARTMENT OF COMPUTER SCIENCE (UG)
DBT STAR SPONSORED DEPARTMENT

NEWS CORNER

Date: 02.09.2024

“MINIATURE BRAIN-MACHINE”

Researchers at EPFL have developed the first high-performance, Miniaturized Brain-Machine Interface (MiBMI), offering an extremely small, low-power, highly accurate, and versatile solution. Published in the latest issue of the IEEE Journal of Solid-State Circuits and presented at the International Solid-State Circuits Conference, the MiBMI not only enhances the efficiency and scalability of brain-machine interfaces but also paves the way for practical, fully implantable devices. This technology holds the potential to significantly improve the quality of life for patients with conditions such as amyotrophic lateral sclerosis (ALS) and spinal cord injuries. The MiBMI's small size and low power are key features, making the system suitable for implantable applications. Its minimal invasiveness ensures safety and practicality for use in clinical and real-life settings.

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NEWS CORNER

Date: 03.09.2024

“NEW BATTERY TECHNOLOGY“

Researchers at Swansea University, in collaboration with Wuhan University of Technology, Shenzhen University, have developed a pioneering technique for producing large-scale graphene current collectors. This breakthrough promises to significantly enhance the safety and performance of lithium-ion batteries (LIBs), addressing a critical challenge in energy storage technology. Published in Nature Chemical Engineering, the study details the first successful protocol for fabricating defect-free graphene foils on a commercial scale. These foils offer extraordinary thermal conductivity up to $1,400.8 \text{ W m}^{-1} \text{ K}^{-1}$, nearly ten times higher than traditional copper and aluminum current collectors used in LIBs. This is a significant step forward for battery technology.

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NEWS CORNER

Date: 04.09.2024

“SMARTVR FITNESS“

Virtual reality (VR) video games that combine screen time with exercise are a great way to get fit, but game designers face a major challenge like with regular exercise, adherence to "Exergames" is low, with most users dropping out once they start to feel uncomfortable or bored. Computer scientists at the University of Bath believe they've found a solution: Create exergames that use sensors to continuously measure a person's emotional state while they exercise, then tweak the game for instance, making it easier or harder to keep the user engaged. Dr. Dominic Potts, lead author of a new study into harnessing cutting-edge sensor technology to keep exercisers motivated, said, When it comes to physical exercise in all forms, motivation and exercise adherence are huge problems.

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NEWS CORNER

Date: 05-09-2024

"STRENGTHENING CYBERSECURITY NETWORKS"

The Indian government has introduced significant draft rules on telecommunications cybersecurity, marking a substantial advancement in the regulatory framework for telecommunications. Central to these rules is the government's authority to request traffic data from telecom providers, aimed at enhancing cybersecurity and protecting users from online fraud, particularly concerning over-the-top (OTT) services like WhatsApp and Telegram. By monitoring this data, the government seeks to identify patterns and potential threats, thereby strengthening the security of telecom networks. Telecom companies in India must adopt comprehensive cybersecurity policies, conduct regular audits, and establish Security Operations Centres (SOCs) for real-time incident monitoring and response.

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NEWS CORNER

Date: 06-09-24

"THE COLLABORATION OF APPLE & AIRTEL"

Apple has partnered with India's second-largest telecom provider, Bharti Airtel, to expand its content streaming services in the country. The collaboration will offer free access to Apple Music and Apple TV+ to millions of Airtel's customers, boosting Apple's presence in the rapidly growing Indian digital market. This strategy marks a shift in focus for Apple, which has primarily been emphasising manufacturing in India as part of its effort to diversify production beyond China. Apple Music will soon be available to premium users of Airtel's Wynk music app, Apple aiming to increase its footprint in both music and video services. Despite strong competition from established players like Spotify and Disney+ Hotstar, Apple hopes this partnership will help gain more subscribers.

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NEWS CORNER

Date: 09.09.2024

"GAME OF STUDYVERSE"

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: 10.9.24

“SAMSUNG WORKER’S STRIKE”

Workers at Samsung Electronics’ plant in Sriperumbudur, southern India, have launched an indefinite strike, demanding higher wages and improved working conditions. The strike began on Monday and impacted production, with about half of the daily output affected as many workers stayed away from the factory. The action follows a similar strike by Samsung’s largest union in South Korea in August, where workers also sought higher wages and bonuses. At the Indian plant, which manufactures refrigerators and washing machines, union leader E. Muthukumar indicated that workers, many in company uniforms, are calling for wage increases and better working hours. He did not provide a timeline for how long the strike might last. Samsung India stated that it addresses worker grievances and complies with all laws and regulations.

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NEWS CORNER

Date: 11.9.24

“EMPHATHY IN AI: A BREAKTHROUGH IN EMOTION”

Researchers at the University of Jyväskylä in Finland have created a model that allows computers to recognize and comprehend human emotions by employing mathematical psychology principles. This breakthrough could enhance the interaction between humans and smart technologies, such as artificial intelligence systems, by making them more attuned and reactive to user's emotions. According to Jussi Jokinen, Associate Professor of Cognitive Science, the model could be used by a computer in the future to predict, for example, when a user will become annoyed or anxious. In such situations, the computer could, for example, give the user additional instructions or redirect the interaction. In everyday interactions with computers, users commonly experience emotions such as joy, irritation, and boredom. The model developed in Jyväskylä can currently predict if the user has feelings of happiness, boredom, irritation, rage, despair, and anxiety.

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NEWS CORNER

Date: 12.09.24

“NOKIA’s NEXT MOVE”

Nokia has partnered with Team Telecom Armenia to deploy its 25G PON (Passive Optical Network) fibre technology. The initiative aims to deliver ultra-high-speed broadband with symmetrical speeds of up to 20 Gb/s, specifically targeting business-to-business (B2B) subscribers. The 25G PON solution supports a wide range of PON technologies, from GPON to 25G PON, providing considerable flexibility for network operators and allowing them to tailor their networks to various needs. This technology, powered by Nokia’s Quillon chipset, enables Team Telecom Armenia to utilise its existing fibre infrastructure while addressing the growing demand for higher capacity and improved broadband services. The upgrade will enhance connectivity and support advanced applications such as enterprise solutions, 5G mobile transport.

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NEWS CORNER

Date: 13.09.24

“GOOGLE’s NEXT LEVEL SECURITY”

Google Chrome has been updated with three new artificial intelligence (AI) features that are designed to help users manage their tabs more effectively. The Mountain View-based tech giant on Tuesday announced a new feature for Chrome for iOS along with two other cross-platform features. The company stated that these features are all powered by Google's AI technology. These features are rolling out a week after the search giant announced a new text-to-speech feature that will allow users to listen to articles and web pages easily. In a blog post, the Google said that it is improving the experience of managing multiple tabs on Chrome, which can often be a source of frustration.

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NEWS CORNER

Date: 18.9.24

“SOLBOX NG: ENERGIZING RURAL ECONOMIES”

SOL box provides clean, affordable, and reliable access to energy through its peer-to-peer solar microgrids, an energy exchange platform that empowers users to choose how and when they want to use energy. SOL share created the world’s first peer-to-peer energy exchange network of rural households and small businesses with rooftop solar home systems, which enables a more efficient distribution of electricity across the rural communities. The point of interconnection with the P2P microgrids is SOLshare’s own SOL box a smart bidirectional meter which allows prosumers to buy and sell energy depending on their usage. Currently, SOLshare is in the process of developing the SOLbox NG (next generation), a far more powerful SOLbox which will allow end-users to access more energy and use more powerful productive energy use appliances.

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NEWS CORNER

Date: 19.09.24

“ENERGY EFFICIENT COMPUTING”

Researchers at Johannes Gutenberg University Mainz (JGU) have managed to enhance the framework of Brownian reservoir computing by recording and transferring hand gestures to the system which then used skyrmions to detect these individual gestures. "We were impressed to see that our hardware approach and concept worked so well and even better than energy-intensive software solutions that employ neural networks," said Grischa Beneke, a member of Professor Mathias Klaui's research group at the JGU Institute of Physics. In collaboration with other experimental and theoretical physicists, Beneke was able to demonstrate that simple hand gestures can be recognized by means of Brownian reservoir computing with a relatively high degree of precision.

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NEWS CORNER

Date: 20.9.24

“OPTICAL COMPUTING-A NEW FUTURE”

Increasingly complex applications such as artificial intelligence require ever more powerful and power-hungry computers to run. Optical computing is a proposed solution to increase speed and power efficiency but has yet to be realized due to constraints and drawbacks. A new design architecture, called diffraction casting, seeks to address these shortcomings. It introduces some concepts to the field of optical computing that might make it more appealing for implementation in next-generation computing devices. Whether it's the smartphone in your pocket or the laptop on your desk, all current computer devices are based on electronic technology. But this has some inherent drawbacks; in particular, they necessarily generate a lot of heat, especially as they increase in performance, not to mention that fabrication technologies are approaching the fundamental limits of what is theoretically possible.

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NEWS CORNER

Date: 21/9/24

“BEWARE OF THIS NEW MALWARE”

A new Google Chrome malware is reportedly locking users out of their system and preventing access to other apps. Dubbed StealC, the malware uses a new technique called “AutoIt Credential Flusher” that forces victims to enter their Google account credentials to use other apps. Discovered by researchers at OALABS, the technique has been used in the wild since August 22 this year by traditional malware loaders and info stealing tools like Amadey. In this mode, the Google Chrome interface removes browser elements like toolbars, navigation buttons or address bars. The malware uses this mode to show users a page that requires them to enter their Google account credentials if they want to do anything on their machine.

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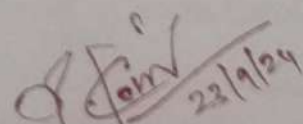


NEWS CORNER

Date: 23-09-24

"100TB DVD – CHINA's NEW INVENTION"

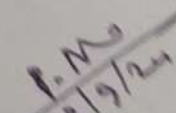
A team of photonic engineers affiliated with several institutions in China has developed a new type of optical DVD that is capable of holding up to a petabyte of data. The group used a new material to coat the DVDs and new laser techniques to write data. Data is written using a laser to etch a series of zeros and ones onto its surface. In this new effort, the team in China found a way to store significantly more data on a DVD using an entirely new approach. Their new method involves storing data in 3D instead of as a single layer. The team found they were able to store data on a single disk with up to 100 layers. To create multiple layers on a disk, the team developed a special coating and then developed a way to etch the individual layers using special patterns of light and a dye in the coating that allowed for etching at the nanoparticle scale. This allowed them to store data at an unprecedented level.


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NEWS CORNER

Date: 24.09.24

“FCC APPROVED STARLINK HURRICANE RELIEF”

The U.S. Federal Communications Commission on Sunday allowed Elon Musk's SpaceX and T Mobile (TMUS.IO) to enable Starlink satellites with direct-to-cell capability to provide coverage for cell phones in areas of North Carolina hard-hit by Hurricane Helene. The FCC often grants such emergency temporary approvals during disasters to help restore wireless and internet services in badly impacted areas and to allow for testing. An FCC spokesperson said on Sunday that the agency remains committed to helping with recovery efforts in states affected by Hurricane Helene. We stand ready to do all that is necessary to return connectivity to hard-hit areas and save lives. SpaceX said the satellites "have already been enabled and started broadcasting emergency alerts to cell phones on all networks in North Carolina. The company said it may "test basic texting (SMS) capabilities for most cell phones on the T-Mobile network in North Carolina.

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NEWS CORNER

Date: 25-09-24

“ADVANCED BIOMETRICS ON RYANAIR”

Ireland's Data Protection Commissioner (DPC) opened an EU-wide probe on Friday into whether Ryanair's use of facial recognition technology to verify the identity of customers booking through some third-party websites violates the bloc's privacy laws. The regulator said it had received a number of complaints from Ryanair customers across the European Union over the airline's practice of requesting additional verification when they booked travel tickets from third party sites or online travel agents (OTAs), as opposed to directly with Ryanair. The Irish carrier, Europe's largest by passenger numbers, welcomed the inquiry into a process it said was designed to protect customers from OTAs not affiliated with the airline that might provide incorrect customer contact and payment details. Ryanair says on its website that the additional verification is required for these customers in order to comply with safety and security requirements.

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NEWS CORNER

Date: 26.09.24

“ADVANCED BIOMETRICS ON RYANAIR”

Ireland's Data Protection Commissioner (DPC) opened an EU-wide probe on Friday into whether Ryanair's use of facial recognition technology to verify the identity of customers booking through some third-party websites violates the bloc's privacy laws. The regulator said it had received a number of complaints from Ryanair customers across the European Union over the airline's practice of requesting additional verification when they booked travel tickets from third party sites or online travel agents (OTAs), as opposed to directly with Ryanair. The Irish carrier, Europe's largest by passenger numbers, welcomed the inquiry into a process it said was designed to protect customers from OTAs not affiliated with the airline that might provide incorrect customer contact and payment details. Ryanair says on its website that the additional verification is required for these customers in order to comply with safety and security requirements.

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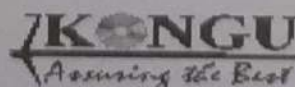
Date: 27.09.24

“THE 100 MILLION PROJECT”

The US Commerce Department announced its plan to allocate \$100 million to promote the use of AI in developing sustainable semiconductor materials. This funding initiative is part of a broader effort overseeing \$52.7 billion designated for US chip manufacturing and research, aimed at strengthening the country's position in the semiconductor industry. The new funding will support universities, national laboratories, and private sector companies in creating AI-driven autonomous experimentation methods. By harnessing the capabilities of AI, the initiative seeks to streamline and expedite the development of innovative semiconductor materials that are less resource-intensive, ultimately contributing to a more sustainable manufacturing process. With the semiconductor industry facing increasing pressure to reduce environmental impact, this investment represents a significant step towards integrating advanced technologies to foster sustainable practices.

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NEWS CORNER

Date: 30/9/24

“AIRTEL’S NEXTLEVEL NETWORK”

Airtel, India’s second largest telecom operator, has announced rolling out of an AI-powered detection tool. The new tool, unlike many others available on app stores, is a network-embedded solution, which Airtel is touting as ‘India’s First’. According to an official release, the tool is auto-activated for all users and does not require any app downloads or service requests. Spam calls have become an increasingly frustrating experience, both for users, telecom operators as well as regulatory authorities. Off late, India has increasingly seen frauds and cyber-thefts happening at break-neck pace, as spammers evolve their methods, which now includes using personal phone numbers for trapping consumers. The menace is widely reported and while government has actively tried to curb, it has been several steps behind. A solution from telecom operators, which have the necessary technology to trace and stop calls straight away, seems like the only possible solution.

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