

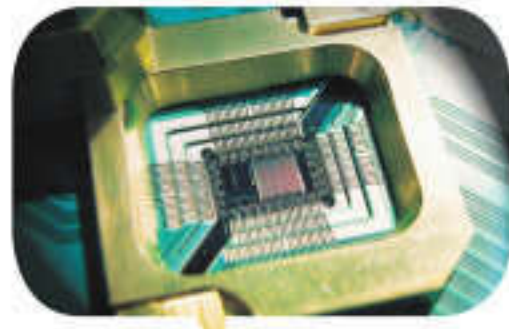


In the beginning there was nothing, which exploded - Terry Pratchett

HE full power of next-generation quantum computing could soon be harnessed by millions of individuals and companies at home and on site, thanks to a breakthrough by scientists at Oxford University Physics, guaranteeing security and privacy. This advance promises to unlock the transformative potential of cloud-based quantum computing and is detailed in a new study published in the influential US scientific journal Physical Review Letters.

SECURE QUANTUM COMPUTING AT HOME

Researchers at Oxford have made a breakthrough by which the potential of cloud-based quantum computing could soon be harnessed by millions



vances. The new study by researchers at Oxford University Physics addresses these challenges.

"We have shown for the first time that quantum computing in the cloud can be accessed in a scalable, practical way which will also give people complete security and privacy of data, plus the ability to verify its authenticity," says Professor David Lucas, who co-heads the Oxford University Physics research team and is the lead scientist at the UK Quantum Computing and Simulation Hub, led from Oxford University Physics.

MORE ON Quantum computing

Quantum computing as a distinct field emerged in the 1980s, when it was discovered that certain computational problems could be tackled more efficiently with quantum algorithms than with their classical counterparts.

KEY FEATURES

Quantum computing uses phenomena in quantum physics to create new ways of computing

Quantum computing involves qubits (the basic unit of information in quantum computing)

Unlike a normal computer bit, which can be either 0 or 1, a qubit can exist in a multidimensional state

The power of quantum computers grows exponentially with more qubits

Classical computers that add more bits can increase power only linearly

KEY APPLICATIONS

- Artificial intelligence, Military and police intelligence, Drug discovery, Aerospace design, Big data search, Digital manufacturing, Nuclear science, Machine learning, Space technology, Cybersecurity, Financial modeling, Traffic optimization, Weather forecast and climate change

Source: Investopedia

cerns around data authenticity and the effectiveness of current security and encryption systems.

Several leading providers of

cloud-based services, such as Google, Amazon, and IBM, already separately offer some elements of quantum computing. Safeguarding the privacy and

security of customer data is a vital precursor to scaling up and expanding its use, and for the development of new applications as the technology ad-

Source: University of Oxford

HEALTHY ALTERNATIVE

STUDY FINDS SPORTS VIEWING INFLUENCES WELL-BEING

In the wake of the apartheid regime in South Africa, the newly elected president of the country and long-time opponent of the apartheid, Nelson Mandela, espoused sports - especially Rugby - as a racial unifier. The film Invictus features this, wherein a racially mixed team made a successful bid for the 1995 Rugby World Cup. It showed how indulging in sports has a unifying effect transcending racial lines, assumed to be having the same effects on diminishing communal and casteist lines too. Now, a new research conducted in Japan by researchers from Waseda University and Nanyang Technological University has shown that not just playing, but even merely watching a popular sport in groups can significantly contribute to fostering community and belonging, benefiting both individuals and society through improved well-being. The research found that the sense of connection achieved through group watching of popular sports not only made individuals feel good, but it also benefits society by improving health, enhancing productivity, and reducing crime. Their research offers insights for public health policies and individual well-being enhancement.

Although the positive effects of sports on well-being were recognized, limited evidence existed on the link between watching sports and well-being. To address this gap, the Japanese researchers conducted a multi-method research and found that sports viewing activates brain reward circuits, leading to improved well-being. The research found sports viewing positively influencing both subjective and objective measures of well-being, fostering long-term benefits for individuals.



Simply

SCIENTIFICO

Science is a world in itself. Here are some interesting facts that connect with you

Nirad Mudur

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OPPORTUNITIES General

Bharati Vidyapeeth (Deemed to be University), Pune (India) Founder Chancellor: Dr. Patangrao Kadam Accredited with 'A' Grade (2017) by NAAC

Table with columns: Sr. No., Subject Speciality, Professor, Associate Professor, Assistant Professor. Lists 6 subjects like Community Based Rehabilitation, Musculoskeletal Sciences, Neurosciences, etc.

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Change of Name (Spouse) I. P.K. Rukminikutty (Existing Name of Spouse as per next of kin, record/service document) spouse of Sahadevan (Name of Husband) resident of Rugmini Nilayam, Valayanchirangara P. O, Perumbavoor (Address) have changed my name from P.K.RUKMINIKUTTY (Existing Name) to P.K.RUGMINIKUTTY AMMA (Proposed new Name) vide affidavit dated 28.02.2024 before Sajeev V.G, Advocate & Notary, Ernakulam