Weekly Discovery

We SHARE to inspire and ignite ideas!

24 April 2017 – 28 April 2017

ARCHITECTURE

Cover uses computer algorithms to design prefabricated dwellings

Small scale prefabricated dwellings are automatically generated by computers based on customized requirements of the client. Multiple design combinations become available for selection.

Source: Dezeen (24 April 2017)

ARTIFICIAL INTELLIGENCE

Artificial intelligence survey finds UK public broadly optimistic

Most British positive about AI improving medical, transport and education. However, they remained wary regarding employment, fearing replacement by computers. Other concerns included lack of human interaction and over reliance on computers. Also read 'The Complete Beginners' Guide to Artificial Intelligence'.

Source: The Guardian (25 April 2017)

BRAIN STIMULATION

Brain stimulation during training boosts performance

Researchers from Sandia National Laboratories have found that dancing, learning a language or playing an instrument can enhance cognitive abilities. They found that people could effectively lean and pick up skills faster reducing the amount of training time usually required.

Source: Sciencedaily (24 April 2017)

CAREER

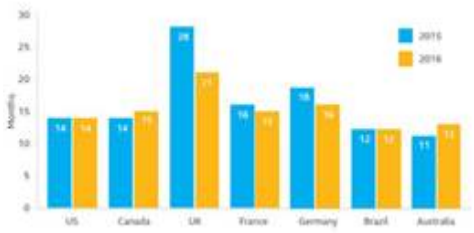
Six of the hottest technology jobs at banks in Singapore now

Check out some interesting career tech openings amongst Singapore's major banks. These include machine learning engineer, lead cloud security engineer, and platform engineer.

Source: efc (25 April 2017)

CLOUD ADOPTION

2017 State Of Cloud Adoption And Security



A survey with 2000 participants conducted by Intel last year shared their findings on cloud adoption rates and plans across different countries, industries and organization size. You can read more at McAfee.

Source: Forbes (23 April 2017)

ELECTRONICS MANUFACTURING

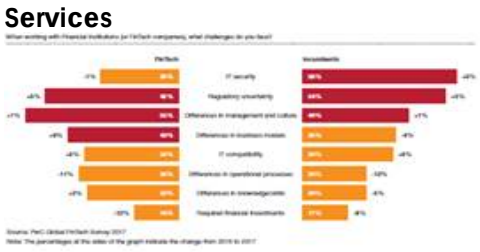
Next-generation transistors revealed in print

Introducing transistors printed purely with layered materials. This new printing menthod could pave the way to print a wide variety of low-cost smart devices. Also read about 3D printed furniture.

Source: Materials Today (21 April 2017)

FINANCIAL TECHNOLOGY

Redrawing the lines : FinTech's growing influence on Financial Services

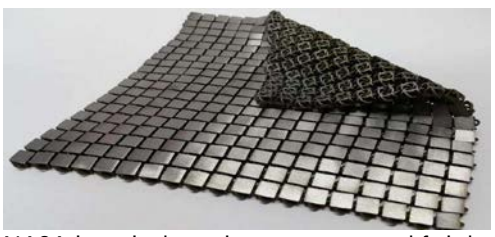


This research report gives details on the emerging technologies in Fintech such as innovative trends in Asset and Wealth Management, Banking, Insurance and Payment services.

Source: Pwc.com (2017)

MATERIAL SCIENCE

'Space fabric' links fashion and engineering

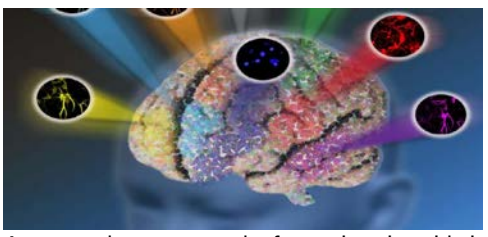


NASA has designed a woven metal fabric that combines fashion and engineering. Its main characteristics are reflectivity, passive heat management, foldability and tensile strength. It could have a wide variety of uses, in antennas, shielding spacecrafts from meteorites and for spacecraft insulation.

Source: Phys.org (19 April 2017)

OPTICS

New microscopy method breaks color barrier of optical imaging

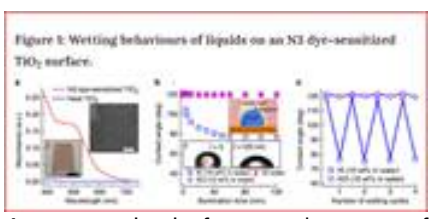


A new microscopy platform that has high sensitivity and allows for simultaneous labeling and imaging of up to 24 specific biomolecules, almost five times the number of biomolecules that can be simultaneously imaged using current microscopy methods.
Read more at Nature.

Source: Phys.org (19 April 2017)

PHYSICS

MIT engineers manipulate water using only light

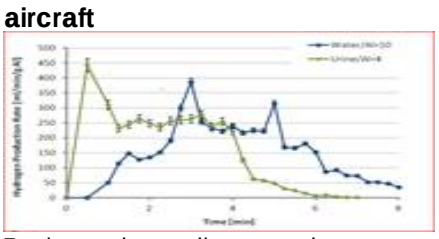


A new method of separating water from oil using light has been discovered. This could have an impact on many processes in the oil and gas industry that require cleaning by separating of oil from instruments and surfaces.

Source: EurekAlert (25 April 2017)

SUSTAINABLE ENERGY

In-flight, on-demand hydrogen production could mean 'greener' aircraft

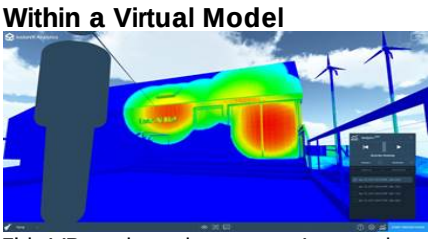


Engineers have discovered a process to produce hydrogen from waste water and convert it into energy while a plane is inflight. The hydrogen can be then stored safely and be used to generate electricity to be used during the flight.

Source: Sciencedaily (24 April 2017)

VIRTUAL REALITY

This New VR Analytics Tool Allows Architects to Track Users' Attention Within a Virtual Model



This VR tool analyses users' attention when walking through virtual spaces and presents the amount of attention given to certain spaces via a real time heat map, enabling the architects to understand how people are interacting with their designs.

Source: ArchDaily (21 April 2017)

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