Weekly Discovery

We SHARE to inspire and ignite ideas!

12 March 2018 - 16 March 2018

ARTIFICIAL INTELLIGENCE
Artificial Intelligence in Southeast Asia

How is Southeast Asia performing in AI studies? Leveraging InCites, a research evaluation tool, researchers found that the region had invested heavily in AI and seen a tremendous growth in its AI competitiveness in the global context.

Source: Clarivate Analytics (January 2018)

ARTIFICIAL INTELLIGENCE
Using Artificial Intelligence to Investigate Illegal Wildlife Trade on Social Media

Researchers from University of Helsinki are collaborating with authorities and leveraging Machine Learning and Natural Language Processing for stamping out illegal wildlife trade. Read also at Conservation Biology.

Source: University of Helsinki (12 March 2018)

COMPUTER VISION
Four Ways Computer Vision Can Elevate Your Marketing

Learn some new ideas that today's marketers can benefit from, including digital advertising using computer vision and biometric identification, autonomous van platform by Toyota e-Palette and face-tracking interactive dashboard.

Source: Forbes (8 March 2018)

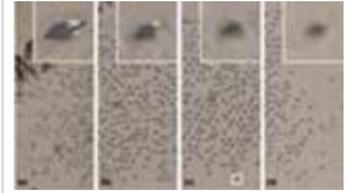---

DRONES
Drones Could Help Biologists Tally Birds

Image Source: Wiley

A new study indicated that remotely piloted aircrafts (RPAs) are cost-effective in collecting accurate data on wild life population. Read more at Methods in Ecology and Evolution.
Also check out useful tips and techniques on drones from Model Airplane News (April 2018) available @ SUTD Library (Call Number TL770 MOD).

Source: Scientific American (12 March 2018)

ENTREPRENEURSHIP
PPPs in Healthcare Models, Lessons and Trends for the Future

This PwC report details the public-private partnerships in the landscape of healthcare, global trends in the sector, and the conditions needed for project success.

Source: PwC (2018)

FABRICATION
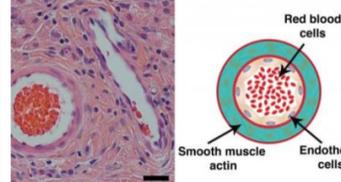## Made to Order: The Fab Future of Fab Labs

This commentary anchors its viewpoint on Lass's law, which says the number of fab labs doubles every year. It paints a picture of the future where fab labs replace the traditional mass production and enter every household.

Source: WIRED (March 2018)
Available @ SUTD Library (Call Number TK5105.5 WIR)

HEALTHCARE
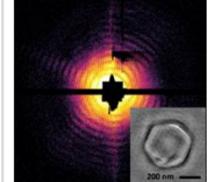## Rice U. Lab Surprised to Find Its Drug-Delivery System Can Help Even Without Drugs

The hydrogel delivers drugs and encourages the growth of cells and blood vessels for new tissue, providing the significant boost and making the body heal in a natural way. Also read at Biomaterials.

Source: Science Newsline (13 March 2018)

IMAGING
With Laser Light, Scientists Create First X-Ray Holographic Images of Viruses

Researchers demonstrated the first X-ray hologram that captures high-resolution 3D images of nano-sized viruses, which were not attached to any surface. In addition, read at Nature.

Source: SLAC (7 March 2018)
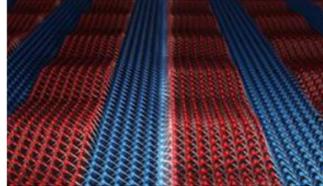

INTERNET
The Spread of True and False News Online

The most extensive research done on the pervasiveness of fake news, as it travels wider, deeper and further. The research highlights the driving factors behind false news and the particular type of fake news that penetrates the society most.

Source: Science (9 March 2018)

MATERIALS SCIENCE
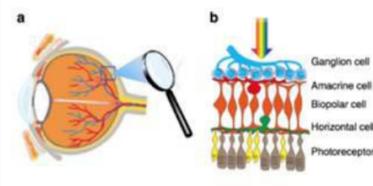## Researchers Sew Atomic Lattices Seamlessly Together

A technique using superfast and sensitive camera to "sew" two patches of different crystals seamlessly together to create atomically thin fabrics. Besides, read at Science.

Source: Phys.org (8 March 2018)

MEDICAL SCIENCE
Blind Mice See Again with Gold and Titanium

A solution to cure certain levels of blindness, by replacing dead cells with 'nanowires' made of gold and titanium oxide, helps tune the array to respond to light in the visible range. Read more at Nature.

Source: Discover Magazine (6 March 2018)

Nanomaterials
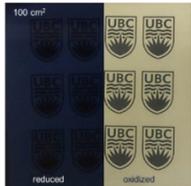## 'Nanowood' Makes a Super Thermal Insulator

Through a chemical treatment, wood becomes anisotropic and eventually unfolds its insulation property, which enables the wood to reject up to 95% of solar energy. Read also at Science.

Source: Nanotechweb (12 March 2018)

SMART BUILDING
UBC Researchers Invent New Method to Create Self-Tinting Windows

This article highlights a cost-efficient way of producing smart windows by tint-ing window transparency according to the amount of UV radiation, providing industry with a competitive option of energy efficient windows.

Source: EurekAlert! (8 March 2018)

SMART CITY
Singapore Best Performing 'Smart City' Globally: Study

Singapore pips San Francisco, Seoul, New York and London to top Global Smart City Performance Index 2017, in terms of mobility, health, safety and productivity. Learn more from the Juniper Research.

Source: Channel NewsAsia (13 March 2018)

TRANSPORTATION
CES Automotive and Transportation Highlights, 2018

A round-up of the transport showcase at CES 2018 details the top 10 trends for global automotive industry. Automotive IT, one of the buzz words at the showcase, is forecasted to become a $168.8 billion market in 2025.

Source: Frost & Sullivan (5 March 2018)

WEARABLES
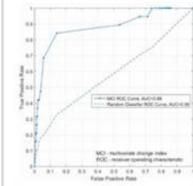## VA Study of Wearables, AI Shows Promise for Heart Failure Patients

Image Source: JACC

Study has shown that data collected from healthcare wearables was able to provide better predictions on heart failure to save lives. A short research report is included. Also read at JACC.

Source: Healthcare IT News (12 March 2018)