

Weekly Discovery

We SHARE to inspire and ignite ideas!

1 January 2018 - 5 January 2018

ARCHITECTURE

More Efficient, More Social



Get more insights about the Green Office District that contains three floors with architecture that enables micro climate optimisation and open visualisation.

Source: Cubes (Dec 17 / Jan 18)
Available @ SUTD Library (Call Number NA1 CUB)

ARTIFICIAL INTELLIGENCE

Innovations in Computer Vision Applications Powered by AI

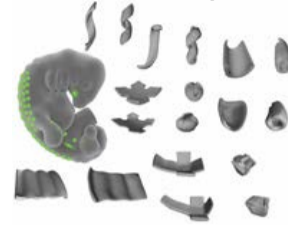


Find out the latest trends on where computer vision is being adopted and how. Technologies include emotion recognition, image recognition, analysis, and many others.

Source: [Frost & Sullivan](#) (27 December 2017)

BIOMEDICAL

Engineers Hack Cell Biology to Create 3-D Shapes from Living Tissue

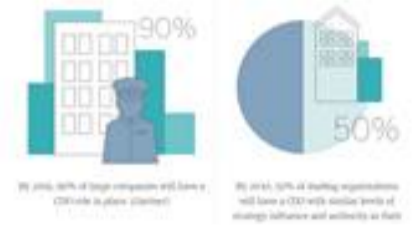


Living tissues are cultured to adapt different form factors that can be used in organ transplantation in the near future. Read also at [Developmental Cell](#).

Source: [UCSF](#) (28 December 2017)

BUSINESS INTELLIGENCE

2018 Top 10 Business Intelligence Trends



Bitesize video clips on business intelligence trends, including embracing Artificial Intelligence, growing acceptance of natural language processing, and the rise of Chief Data Officers.

Source: [Tableau](#) (2017)

CREATIVITY & INNOVATION

The Mother of Invention



Studio Toogood has a reputation for their creativity and innovation in their designs. Their success can be found in working under conditions that are limiting and sparse to inspire their work. Read on to find out how.

Source: Hole & Corner (Issue 14)
Available @ SUTD Library (Call Number AP2 HOL)

GADGETS

Forget Juicero, Here Are the Tech Gadgets We Can Actually Get Excited About in 2018



As 2018 gets underway, let's take a look at the 10 inventions that will make an impact. These include an artificial kidney, vertical farming, airborne wind turbines and crowdfunding employment training for the homeless.

Source: [The Guardian](#) (28 December 2017)

GLOBAL ECONOMY

Regions in Focus



Credit Suisse gives insight into developments of major regions and nations in 2018. Who will lead the way in economic growth? Who will face challenges? Read to find out more.

Source: [Credit Suisse](#) (December 2017)

HEALTHCARE

Nanowire Brush Captures Extracellular Vesicles in Urine, May Help Screen for Cancer



Presenting a smart medical device that uses nanowires to detect the presence of diseases like cancers in urine, which is an easy-to-obtain patient sample. Read more at [Science](#).

Source: [MedGadget](#) (2 January 2018)

INTERNET OF ACTIONS

The Next Technology Shift: The Internet of Actions

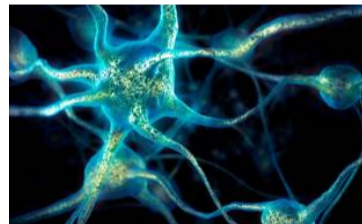


As technology is becoming more human-centred, we will soon embrace an age of Internet-of-Actions (IoA) in which algorithms have the ability to understand why certain behaviours and activities take place.

Source: [Forbes](#) (29 December 2017)

NEUROSCIENCE

3 Brain Technologies to Watch in 2018

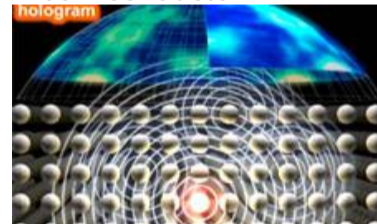


Gain insights into the latest development of neuroscience and notably three fast-advancing brain technologies this year, including neural dust, brain-controlled typing and brain organoids.

Source: [Scientific American](#) (28 December 2017)

ATOMIC IMAGING

New Technique Improves Imaging of Atomic Structures of Dopant Atoms in Semiconductor



Spring-8 technique visualises the 3D dopant atomic structures in semiconductors which improve the production of high performance devices. Read also at [ACS](#).

Source: [SciTechDaily](#) (27 December 2017)

ROBOTICS

Robots to Repair Satellites, Reduce Space Pollution



Now we have Robots in Space! These service stations in orbit are able to not only refuel and repair satellites, but also fight against enemy satellites in times of war.

Source: [NewsNow](#) (2 January 2018)

SKILLED GAMING

Not Everyone Plays Games to Be Challenged, and That's Okay



Being not spectacular in gaming doesn't mean one is less of a gamer as compared to those with high scorers. Notable gamer journalist pleads for understanding and brings you a number of game reviews too.

Source: Games Master (December 2017)
Available @ SUTD Library (Call Number GV1469.3 GAM)

SMART CITIES

Can the Private Sector Help Cities Stop Traffic Deaths?



Companies including IBM and AT&T are leveraging advanced technologies like data analytics and sensors for minimising road traffic accidents. With these efforts, cities could become safer and smarter.

Source: [Fast Company](#) (2 January 2018)

SMART HOMES

Tech Trends for 2018: From Helpful Robots to Voice-Controlled TVs

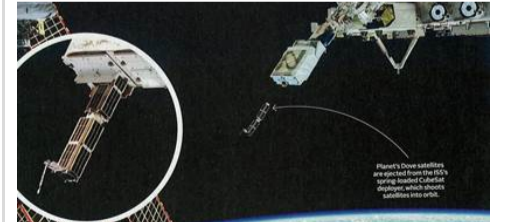


With technology and innovation moving quickly, we can expect 'smarter' homes in 2018. Companies are working on helpful home robots, wireless charging over airwaves, 20-hour battery life laptops, and more!

Source: [CNBC](#) (2 January 2018)

SPACE TECHNOLOGY

Tiny Satellites Explore Universe



CubeSats, a new kind of miniaturized satellites that are lightweight and low-cost, can outperform the traditional spacecraft when in clusters in terms of the scope of coverage and timeliness of data collection.

Source: Popular Mechanics (December 2017)
Available @ SUTD Library (Call Number T1 POP)