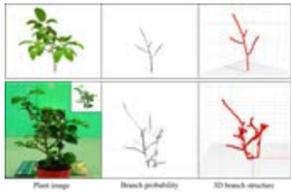


Weekly Discovery

We SHARE to inspire and ignite ideas!

7 May 2018 - 11 May 2018

3D SCANNING Invisible Structures Exposed!



Read about how scientists uncover structures hidden using image analysis and artificial intelligence technologies to perform 3D reconstruction process on a tree branch.

Source: [EurekAlert!](#) (7 May 2018)

ARTIFICIAL INTELLIGENCE How Artificial Intelligence Is Reshaping Jobs in Banking



Source: [IT Peer Network](#)

Curious about how artificial intelligence revolution will impact the banking industry? Check out this article which shares different perspectives on job changes it will bring about.

Source: [American Banker](#) (7 May 2018)

AUTONOMOUS VEHICLES New MIT System Lets Self-Driving Cars Go Almost Anywhere



Check out how MIT CSAIL's MapLite enables driver-less cars to navigate with just GPS and sensors, going beyond the driving with exact 3D positions of lanes, curbs, off-ramps and stop signs.

Source: [Forbes](#) (7 May 2018)

BLOCKCHAIN In Blockchain We Trust



A detailed history and overview of blockchain, its applications in crypto currencies and potential transformation of industries and financial transactions.

Source: [MIT Technology Review](#) (May / Jun 2018)

CARBON-WATER DEVICE Energy from Quiescent Water



Source: [Phys.org](#)

Electricity can be generated from flowing water. But how about harvesting electricity from stationary water? Explore the new system which can help achieve a new generation of power harvesting.

Source: [Nature](#) (4 May 2018)

CHEMISTRY Building a Better Painkiller: Amid a Public Health Crisis, the Hunt for an Opioid Alternative Is On



This article provides an in-depth coverage of opioids, the ways it works and its serious health impacts on an individual. Learn about the limitations in the drug industry and the urgent calls to find a substitute.

Source: [Discover](#) (May 2018)
Available @ SUTD Library (Call Number Q1D54 DIS)

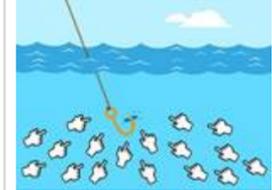
DIGITAL FABRICATION Productivity of Digital Fabrication in Construction: Cost and Time Analysis of a Robotically Built Wall



Researchers demonstrated that productivity is higher when the robotic construction method is used for complex walls, indicating that it is possible to obtain significant economic benefits.

Source: [Automation in Construction](#) (August 2018)

FAKE NEWS How Artificial Intelligence Can Detect, and Create, Fake News



Is AI a friend or a foe in the time of the Internet? It can either stop fake news or create fake news. Read about the techniques used to fight against fake news.

Source: [Neurosciencenews.com](#) (3 May 2018)

GRAPHENE Graphene-Reinforced Concrete Is "More Than Twice as Strong" Say Scientists



A technique of adding graphene into concrete makes the new material four times stronger and more water resistant while increasing durability by two times and sustainability.

Source: [Dezeen](#) (3 May 2018)

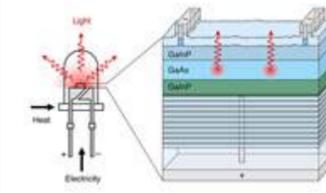
HOTSPOT This Tiny Gadget Creates an Uncensored Mini Internet



Incorporating functionalities of mini server and wireless hotspot, Hot Ninja helps distribute content to devices connecting to it and is also capable of hosting private communications amongst the devices.

Source: [Fast Company](#) (4 May 2018)

LED TECHNOLOGY Optoelectronic Design Points to Ways for LEDs to Chill Out



A new LED design which integrates photovoltaic cells is said to cool down while emitting light and achieving a new level of efficiency and refrigeration.

Source: [AIP](#) (4 May 2018)

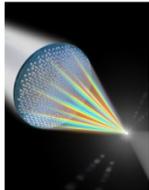
MEDICAL IMPLANTS Synchronizing Cochlear Signals Stimulates Brain to 'Hear' in Stereo



A new method that allows the hearing impaired to hear via the cochlear implants. The device enables the sound to be converted into electrical pulses to the auditory nerves.

Source: [Neurosciencenews.com](#) (8 May 2018)

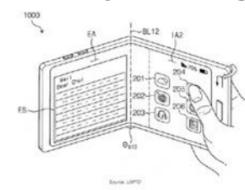
OPTICS Delivering VR in Perfect Focus with Nanostructure Meta-Lenses



Instead of utilising multiple lenses, this ultra-compact [meta-lens](#) is able to demonstrate high-quality imaging through its uniquely designed nanostructures. Future VR headsets could become lightweight and less bulky.

Source: [Singularity Hub](#) (4 May 2018)

PATENTS Samsung's Latest Patents Might Mean We Finally Get Folding Smartphones



Samsung has been awarded key patents for its design of foldable smartphones. Learn more about this design through a set of diagrams from the patents and also access the patents themselves.

Source: [Interesting Engineering](#) (7 May 2018)

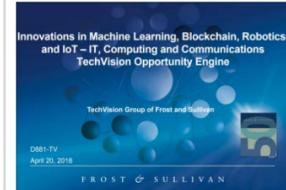
R&D INNOVATIONS R&D Special Focus: Looking Back at Past R&D 100 Award Recipients



Want to know what are the top 100 innovations last year? Read on and be inspired by these innovations which may bring great ideas to your research.

Source: [R&D](#) (3 May 2018)

TECH INNOVATIONS Innovations in Machine Learning, Blockchain, Robotics, and IoT



A 15-page Frost & Sullivan report details the recent innovations by 10 industry players in the areas of blockchain, analytics, and artificial intelligence. Learn about the new technologies and developments in these areas.

Source: [Frost & Sullivan](#) (20 April 2018)

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