

Weekly Discovery

We SHARE to inspire and ignite ideas!

21 November 2016 – 25 November 2016

ARTIFICIAL INTELLIGENCE

Robots Muscle in on the Job Interview



Have you ever thought about a robot becoming a job interviewer? This novel application enables judgments on an interviewee to be made free of bias. However, it could also be a hindrance for both recruiter and candidate.

Source: [Financial Times](#) (17 November 2016)

BLOCKCHAIN

Innovations in Blockchain

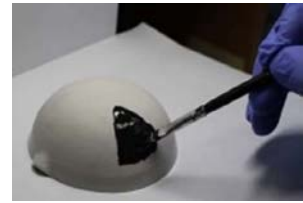


This report presents innovations in blockchain technology. Topics covered include enhancing security for applications involving blockchain, real-time analytics to avoid counterfeit payment transactions, bitcoin mining and blockchain platforms for industries. Patents on Blockchain also included.

Source: [Frost & Sullivan](#) (18 November 2016)

ENERGY HARVESTING

Thermoelectric paint enables walls to convert heat into electricity



[Thermoelectric paint](#) can capture heat and convert it to electrical energy. It can be applied to waste heat recovery from wide surfaces that give off heat, wearable thermoelectric energy harvesters and painted electronic art. Read more at [Nature Communications](#).

Source: [Phys.org](#) (21 November 2016)

ENVIRONMENTAL ARCHITECTURE

From the Everglades to the Rockaways, this Brooklyn Firm Works with Communities to Design for Resiliency

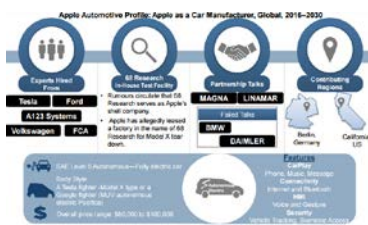


An interview with two architects, who are notable for delivering innovative and resilient solutions to cope with environmental changes. Learn about their philosophy of urban design in terms of architecture, environment, and community.

Source: [The Architects Newspaper](#) (21 November 2016)

INDUSTRY FORECAST

Apple Inc. in the Global Automotive Industry, Forecast to 2030



A research report giving insights to the efforts Apple has taken to enter this market, the services Apple could provide to the automotive industry and how Apple could garner popularity for its automotive services using its iPhone customers.

Source: [Frost & Sullivan](#) (18 November 2016)

NEURAL NETWORK

Silicon Photonic Neural Network Unveiled



An integrated silicon photonic neuromorphic chip has been produced, creating possibilities for scalable ultrafast information processing in areas such as radio, control and scientific computing.

Source: [MIT Technology Review](#) (18 November 2016)

ROBOTICS

How A 3D Printing Welding Robot Works



This 4-minute video takes you behind the scenes at Autodesk on how they are using robots to carry out tasks. One of the bigger robots can weld two pieces of metal together.

Source: [Popular Mechanics](#) (19 November 2016)

SENSORS

Smart sensors could end rail chaos from 'leaves on the line'



Discover [intelligent sensors](#) that can determine how much moisture there is on the railway tracks. These sensors can aid railway operators in promptly clearing the leaves prior to the morning rush hour each day.

Source: [Phys.org](#) (16 November 2016)

SOCIAL MEDIA

Harsh truths about fake news for Facebook, Google and Twitter

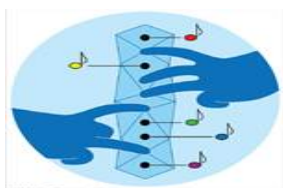


There had been a surge of fake reports and extremist content on several social media platforms channelled through bot groups recently. These platforms need to come up with a sophisticated mechanism quickly to weed out the barrage of misinformation.

Source: [Financial Times](#) (22 November 2016)

SOUND TECHNOLOGY

Introducing the Acoustic Prism



Researchers from Switzerland constructed a 40-cm hollow aluminium case with holes and polymer membranes. One of the applications is that when incoming sound is passed through the prism, it can accurately pinpoint where the specific frequency is coming from.

Source: [Scientific American](#) (November 2016)

TRANSPORTATION

World's First 5G-Connected Cars Demo'd in Korea



With the new 5G cellular network, data can be transferred at a faster rate than 4G. South Korea has demonstrated using this for cars to share information with the drivers. In future, this could be used for cars to coordinate their actions such as preventing accidents.

Source: [IEEE Spectrum](#) (16 November 2016)

URBAN SPACES

Gentrification's Image Problem and How It Has Been Villified



Gentrification, a growing trend in big cities, is led by economic goals through the improvement of urban areas. However residents of an area are forced to relocate due to the area's growing wealth. Local enhancements to areas must be carried out in such a manner that ensures they are not perilous to anyone.

Source: [ArchDaily](#) (21 November 2016)

To view past Weekly Alerts [CLICK HERE](#)

For more articles or in-depth research, contact us at library@sutd.edu.sg!

An SUTD Library Service©2016