# Weekly Discovery

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10 September 2018 - 14 September 2018

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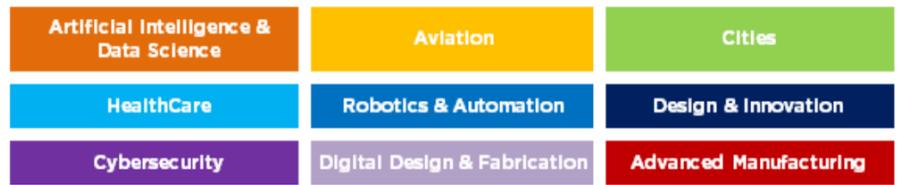
ARCHITECTURE
Millet Vinegar Museum / Zhanghua Studio, AATU

"The shape of the ancient history of vinegar and jars, cans and other containers gives designer the initial design inspiration. Crack is a kind of expression of vitality, like cracked soil, plant leaf, the surface of the ancient Chinese porcelain."

Source: Arch Daily (10 September 2018)

ARCHITECTURE
Thesis Project Develops Drone Architecture for Adaptable Public Apaces

"The project uses lightweight carbon fiber building blocks with integrated sensing communication to create dynamic public spaces. The user can program drones to reconfigure the canopy according to the sun's position, providing occupants with optimum shade throughout the day."

Source: Archinect (7 September 2018)

ARTIFICIAL INTELLIGENCE
Unifying Big Data and Machine Learning, Cisco Style
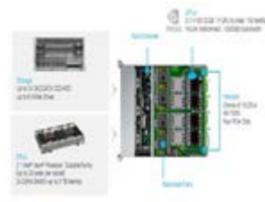
"… to unify the platforms that are doing more traditional data analytics, based on tools such as Hadoop and Spark, with those that are doing machine learning training. This way, the iron can be used for multiple purposes while the data needed for both workloads is located on the same clusters."

Source: The Next Platform (10 September 2018)

BIG DATA
Requisite Features of Big Data Analytics Tools

"Big data analytics tools must have purposeful features, which would be vital to reduce the data scientists' effort in improving business results."

Source: CIO Review (11 September 2018)

BIOPRINTING
'A New Bladder Made from My Own Cells Gave Me a Normal Life'

"Bioprinting human tissue using specialised 3D printers promises to transform medicine, with implications for organ transplants, cancer treatment and antibiotic development."

Source: BBC News (11 September 2018)

CITIES
Spatial Patterns of Population Turnover in a Japanese Regional City for Urban Regeneration Against Population Decline: Is Compact City Policy Effective?
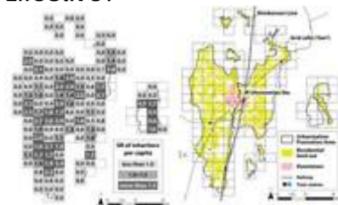
"The present study was aimed at examining the gap between Japanese compact city policy and actual spatial patterns of population turnover, inheritance and migration."

Source: Cities (November 2018)

DECENTRALISED WEB
Decentralisation: The Next Big Step for the World Wide Web

"The decentralised web, or DWeb, could be a chance to take control of our data back from the big tech firms. So how does it work and when will it be here?"

Source: The Guardian (8 September 2018)

DRONES
New Electric Drone Has Groundbreaking Flight Time

"A new electric drone from Impossible Aerospace can fly more than four times as long as other battery-powered drones, the company announced today, potentially bringing the world closer to fully electric passenger aircraft."

Source: IEEE Spectrum (10 September 2018)

ENTREPRENEURSHIP
These Are Some of Asia's Most Creative Start-Ups

"The World Economic Forum has selected 80 winning start-ups to take part in its ASEAN 2018 summit as part of a competition to find the region's most innovative new companies."

Source: World Economic Forum (10 September 2018)

ENVIRONMENT
O-Wind Turbine Captures Energy Even in the Middle of Dense Cities

"An omnidirectional wind turbine that works in the middle of big cities, which could 'take urban energy harvesting to another level', is the UK's James Dyson Award winner for 2018."

Source: Dezeen (10 September 2018)

HEALTHCARE TECH
Health Meets Wealth: Tech Giants Break into Healthcare
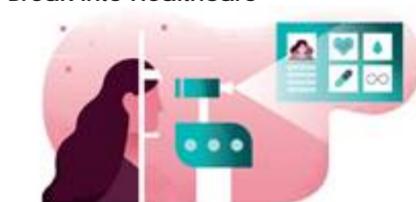
"Technology in healthcare is increasingly becoming big business. According to a recent report from Markets and Markets, the global healthcare IT market is projected to reach $280.25 billion by 2021, up from $134.25 billion in 2016, representing a compound annual growth rate of 15.9 per cent."

Source: Raconteur (11 September 2018)

INNOVATION
Innovation by Design 2018
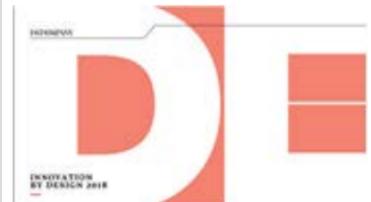
"Topics discussed include coordination of convenience with technology without compromising on social requirements such as privacy, inclusivity, and community needs; challenges of design companies to generate revenue from users and maintain productivity and also empower the consumers; skepticism on the consumer data collected by analysts such as Cambridge Analytica and Equifax."

Source: Fast Company (October 2018)

MAGNETIC SENSORS
Diamond Dust Enables Low-Cost, High-Efficiency Magnetic Field Detection
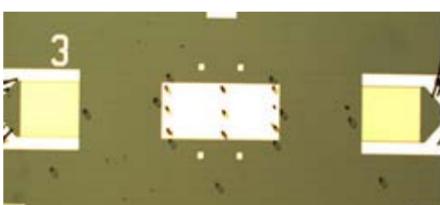
"The technology could revolutionize how we measure the magnetic fields that flow through our electronics, our planet, and even our bodies."

Source: EurekAlert! (10 September 2018)

MOBILE MEDICAL APPLICATIONS
Suitability Of Current Evaluation Frameworks for Use in the Health Technology Assessment of Mobile Medical Applications: A Systematic Review

"Objective: To identify and appraise existing evaluation frameworks for mobile medical applications (MMA) and determine their suitability for use in health technology assessment (HTA) of these technologies."

Source: International Journal of Technology Assessment in Health Care (11 September 2018)

SOCIAL SCIENCE
Trapped

"Social media's tricks are borrowed from casinos and slot machines … Social media isn't designed with your long-term happiness in mind."

Source: BBC Earth (Vol 10 Issue 9)
Available @ SUTD Library (Call Number Q1 BBC)

TECHNOLOGY
Implement First, Ask Questions Later (or Not At All)

"Companies used to spend years clarifying business requirements before they would even think of launching new software … Companies should expect to discover solutions through the implementation process rather than in advance of it."

Source: MIT Sloan Management Review(Summer 2018)
Available @ SUTD Library (Call Number HD28 MIT)