

Weekly Discovery

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6 MAY 2019 - 10 MAY 2019

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Artificial Intelligence & Data Science	Aviation	Cities
HealthCare	Robotics & Automation	Design & Innovation
Cybersecurity	Digital Design & Fabrication	Advanced Manufacturing

AI & HEALTHCARE

Algorithms Help Spot Cancer 'Lottery Winners' in New Fred Hutch Study



"For most patients, a diagnosis of stage 4 non-small cell lung cancer comes with a dire prognosis. But for patients with specific mutations that cause the disease, there are potentially life-saving therapies."

Source: [GeekWire](#) (6 May 2019)

APPS

The End of App Stores Is Rapidly Approaching



"A new generation of Progressive Web Applications (PWAs), now taking root on desktop computers, may soon make the jump to your smartphone, changing how you download apps—and where they come from—forever."

Source: [OneZero](#) (7 May 2019)

ARCHITECTURE

Building Images: A Video on How Social Media is Changing Architecture



"Digital communication has changed the way people view and interact with architecture, providing architects with new insights on how to design their structures."

Source: [Archdaily](#) (5 May 2019)

ARTIFICIAL INTELLIGENCE

How AI Could Be Used to Record Our Life Stories



"A new project out of Accenture Interactive for the Swedish energy company Stockholm Exergi has prototyped a voice app called Memory Lane. It runs on a stock Google Home speaker and, over the course of a natural conversation, it will piece together a highly detailed story of your life."

Source: [Fast Company](#) (2 May 2019)

BIOPRINTING

Organ Bioprinting Gets a Breath of Fresh Air

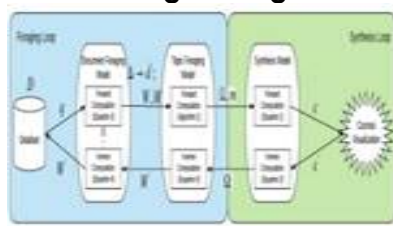


"The new innovation allows scientists to create exquisitely entangled vascular networks that mimic the body's natural passageways for blood, air, lymph and other vital fluids."

Source: [Science Daily](#) (2 May 2019)

DATA ANALYTICS

Interactive Visual Analytics for Sensemaking with Big Text



"To scale up such sensemaking tasks, new methods are needed to interactively integrate human cognitive sensemaking activity with machine learning."

Source: [Big Data Research](#) (July 2019)

DESIGN

Durasport's Interactive Singapore Store Is a Vision of the Future



"... a futuristic cocoon whose ovaloid floorplan is lined with shimmering stainless steel panels and LED strips – eschews the mass sports market in favour of what lead designer Colin Seah describes as 'the ultra-performance athlete and sporting enthusiast.'"

Source: [Wallpaper](#) (6 May 2019)

DIGITAL FABRICATION

Digital Fabrication of Soft Actuated Objects by Machine Knitting



"Computationally-controlled machine knitting offers an alternative fabrication technology which can rapidly produce soft textile objects that have a very different character: breathable, lightweight, and pleasant to the touch."

Source: [Carnegie Mellon University](#) (4 May 2019)

E-ANALYTICS

E-Analytics Guide: Using Data and New Technology for Peacemaking, Preventive Diplomacy, and Peacebuilding



"The guide presents a summary of e-analytics tools as well as examples from the peace and security field. It includes a data project planning matrix that aims to help facilitate and motivate data-driven analysis."

Source: [reliefweb](#) (6 May 2019)

HEARABLES

Here Come the Hearables



"Soon, wearable devices that tuck into our ears - I call them hearables - will monitor our biological signals to reveal when we are emotionally stressed and when our brains are being overtaxed."

Source: [IEEE Spectrum](#) (May 2019)

MEDICAL ROBOTS

Six Robots Helping Doctors Today



"The global medical robots market is expected to reach \$16.74 billion by 2023, up from about \$6.46 billion in 2018 - representing a compound annual growth rate of 21 percent, according to the research firm Markets and Markets."

Source: [ASME](#) (June 2019)

MEGATRENDS

Understanding the Socioeconomic Drivers of Megatrends



"There are five socioeconomic drivers generating and shaping consumer megatrends ... In a rapidly changing global environment, megatrend analysis is critical for companies seeking to drive sustainable growth and remain relevant as competition increases and new ideas disrupt entire industries ..."

Source: [Euromonitor](#) (May 2019)

OPTICS

A New Camera Can Photograph You from 45 Kilometers Away



"Developed in China, the lidar-based system can cut through city smog to resolve human-sized features at vast distances."

Source: [MIT Technology Review](#) (3 May 2019)

POLLUTION

New Technology Could Allow Scientists to Better Understand Pollution Impact on Each Individual



"A new report outlines how advances in instrumentation and information technology will soon allow researchers to get a better grasp on the health risks caused by air pollution to individuals living in big cities."

Source: [R&D Magazine](#) (6 May 2019)

PRODUCT DESIGN

Scaling Solutions for the Developing World



"In MIT D-Lab class 2.729 (Design for Scale), MIT students devise ways to manufacture products to reach as many people as possible."

Source: [MIT News](#) (5 May 2019)

SUSTAINABLE DESIGN

Bus Station That Generates Its Own Energy by Cepezed Architects Opens in Tilburg



"The new public transport facility generates its own energy through 250 m2 of solar panels that lie atop of its awning, which supply sufficient power for all functionalities of the bus station, including lighting, the digital information signs, the staff canteen, and the public transport service point."

Source: [designboom](#) (3 May 2019)

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