

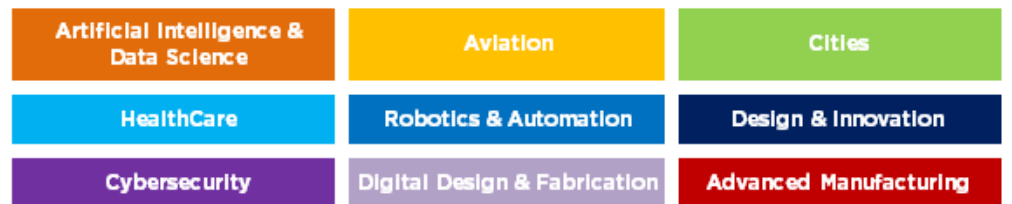
# Weekly Discovery

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20 August 2018 - 24 August 2018

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## ADVANCED TRANSPORT

### Finally, the Biggest Airplane in the World Has Some Rockets to Launch



"... the new rockets announced this week will have significantly more capacity, and they appear to be right-sized for this very large mobile launch platform."

Source: [arsTECHNICA](#) (21 August 2018)

## ARCHITECTURE

### Architectural Record Announces 2018 Women in Architecture Award Winners



"An independent jury has chosen the 2018 winners of Architectural Record's fifth annual Women in Architecture awards. Founded in 2014, the awards series recognizes design leadership across five categories and promotes the visibility and contributions of women to the field."

Source: [Architectural Record](#) (16 August 2018)

## ARTIFICIAL INTELLIGENCE

### Google Just Gave Control over Data Center Cooling to an AI



"Google has been testing an algorithm that learns how best to adjust cooling systems—fans, ventilation, and other equipment—in order to lower power consumption. Now, it has effectively handed control to the algorithm, which is managing cooling at several of its data centers all by itself."

Source: [MIT Technology Review](#) (17 August 2018)

## CITIES

### Metropolis Magazine's 10 "Inspirational" Design Cities of 2018



"Rounding off our annual design cities coverage, we present 10 cities that inspire, or personally resonate with, the designers and professionals we surveyed."

Source: [Metropolis](#) (17 August 2018)

## DATA SCIENCE

### What Data Scientists Really Do, According to 35 Data Scientists

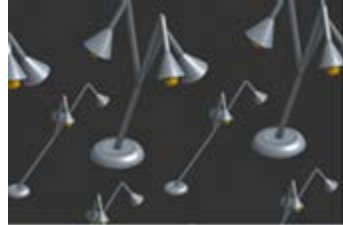


"What, exactly, is it that data scientists do? As the host of the DataCamp podcast DataFramed, I have had the pleasure of speaking with over 30 data scientists across a wide array of industries and academic disciplines. Among other things, I've asked them about what their jobs entail."

Source: [Harvard Business Review](#) (15 August 2018)

## DESIGN TOOL

### Design Tool Reveals a Product's Many Possible Performance Tradeoffs



"CSAIL researchers have developed a visualization tool for computer-aided design (CAD) programs that, for the first time, lets users instead interactively explore all designs that best fit multiple, often-conflicting performance tradeoffs, in real time."

Source: [MIT News](#) (15 August 2018)

## EXOSKELETON SYSTEM

### Russia to Demonstrate Active Camouflage for Soldiers, Tanks



"Ratnik-3 is the most ambitious stage to date, including stealth camouflage and a powered exoskeleton system designed to reduce fatigue and increase the carrying capacity of Russian soldiers."

Source: [Popular Mechanics](#) (21 August 2018)

## HEALTHCARE

### Babies in Prams Exposed to High Levels of Air Pollution

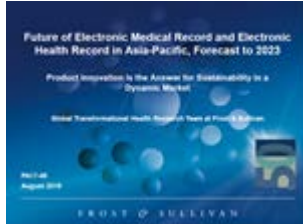


"Researchers ... found that the breathing height of infants in prams was between 0.55m and 0.85m (2ft) above ground level. Because pollution levels are greater within 1m of ground level, these infants are being exposed to up to 60% more fine particle air pollution than adults, the evidence indicates."

Source: [HealthCareAsia](#) (15 August 2018)

## MEDICAL TECHNOLOGY

### Future of Electronic Medical Record and Electronic Health Record in Asia-Pacific, Forecast to 2023



"EMR solutions with cutting-edge technologies such as artificial intelligence (AI), machine learning, and blockchain will be of high demand in countries including Australia, China, Japan, and Singapore."

Source: [Frost & Sullivan](#) (21 August 2018)

## OIL & GAS

### How Digital Improves Management Systems in Oil and Gas



"Effective digitalization of management systems provides a seamless way to transform the organization with technology and process upgrades that are clearly tied to the company's strategic goals."

Source: [Bain & Company](#) (15 August 2018)

## OPTICAL DESIGN & ENGINEERING

### Deep Thought: Mapping the World, One Automated Step at a Time

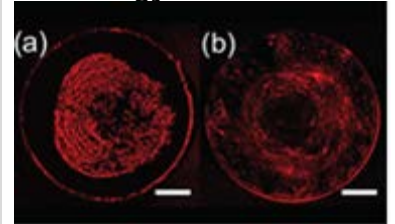


"In September, at the SPIE European Remote Sensing symposium in Berlin, Heipke will discuss the ways in which deep learning is used in geospatial-related aerial and satellite image analysis."

Source: [SPIE: The International Society for Optics and Photonics](#) (15 August 2018)

## PRINTING TECHNIQUE

### New Manufacturing Technique Could Improve Common Problem in Printing Technology



"A new manufacturing technique developed by researchers from Binghamton University, State University at New York may be able to avoid the 'coffee ring' effect that plagues inkjet printers."

Source: [EurekAlert!](#) (16 August 2018)

## PRODUCT LAUNCH

### Finding the Perfect Pace for Product Launches



"Firms that launch many new products incur high costs, which may hurt stock returns. And clustering launches can stretch people and systems too thin."

Source: [Harvard Business Review](#) (Jul / Aug 2018)

## PROJECT MANAGEMENT

### How Predictive Analytics Can Boost Product Development



"At its heart, the new approach relies on the fact that, while every development project is unique, the underlying complexity drivers across projects are similar and can be quantified."

Source: [McKinsey & Company](#) (August 2018)

## URBAN ANALYSIS

### Understanding Urban Issues Through Credit Cards

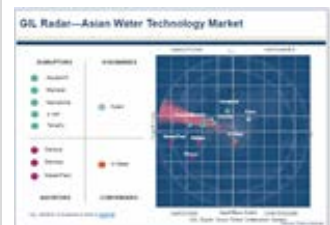


"Digital traces from credit card and mobile phone usage can be used to map urban lifestyles and understand human mobility, according to a report led by UCL, MIT and UC Berkeley."

Source: [University College London](#) (20 August 2018)

## WATER TECHNOLOGY

### Asian Water Technology Market, Forecast to 2022



"This study offers insights into the growth opportunities for this market and the methods to capitalize on this growth, provides an overview on the competitive landscape in APAC ... key players in the market, and ... analysis of their position."

Source: [Frost & Sullivan](#) (2 July 2018)