

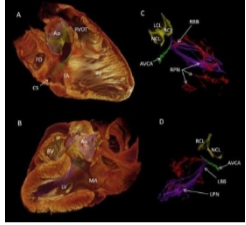
# Weekly Discovery

We SHARE to inspire and ignite ideas!

7 August 2017 - 11 August 2017

3D BIOPRINTING

## Source of Human Heartbeat Revealed in 3-D



Ground-breaking [3D modelling](#) of human cardiac conduction system in unheard of detail that provides more accurate data than the existing computer models. Read also at [Nature](#).

Source: [Science Daily](#) (4 August 2017)

AUGMENTED REALITY

## Escher Reality Is Building the Backend for Cross-Platform Mobile AR



Augmented Reality is currently enjoyed by single users on a device. Soon it may be possible for two mobile devices to interact on an AR game via a Cross-Platform being developed.

Source: [Tech Crunch](#) (6 August 2017)

DESIGN

## Why Design Is the Best Bottom-Line Strategy



Who said Design and Technology can't mix? John Maeda, a design magnate, has released the [2017 Design in Tech Report](#) providing insights into this new convergence.

Source: [Inc.](#) (1 August 2017)

ENERGY MANAGEMENT

## Deloitte Resources 2017 Study



The findings of the last 3 years show a growing effort by consumers and businesses in the US in conserving and utilizing sustainable energy. Read the [full report](#) to find out more.

Source: [Deloitte](#) (2017)

FUTURE CITIES

## Ma Yansong: "Architects Need to Talk About What the Future Is"



The founder of architecture studio MAD stresses that Architects should be involved in solving the world's problems with their designs and not just designing according to the requirements of developers.

Source: [Dezeen](#) (1 August 2017)

GENE EDITING

## Gene-Editing Embryos Is a Laudable Ambition: Biotechnology

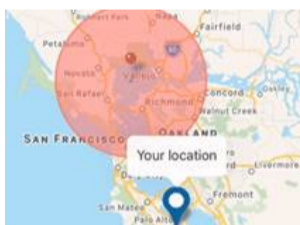


Crispr is a new technology that can accurately remove genetic mutations that lead to heart failures from early human embryos without side effects being found after the procedure.

Source: [Financial Times](#) (4 August 2017)

IOT & EARTHQUAKE

## Zizmos Continues Its Quest to Create an IoT Earthquake-Warning Network



Introducing smartphone sensors and wall-mount gadgets that home owners can utilize for earthquake early warning. The project has won \$1 million in the Verizon Powerful Answers competition.

Source: [IEEE Spectrum](#) (4 August 2017)

MANUFACTURING

## Bringing Heavy Metal Quality to the New Manufacturing: To Make a Difference, IIoT and 3-D Printing Must Produce Superior Goods

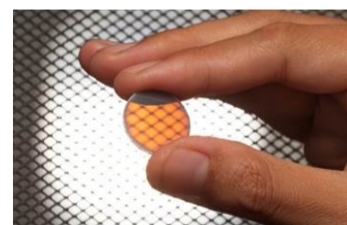


A brief history of manufacturing to the current Fourth Industrial Revolution. The details on the disruptive trends in 21st century manufacturing, industrial IIoT and metal 3D printing are presented.

Source: [Industrial Engineer](#) (August 2017)

MEDICAL IMPLANT

## Transparent "Window into the Brain" Lets Soundwaves Through the Skull

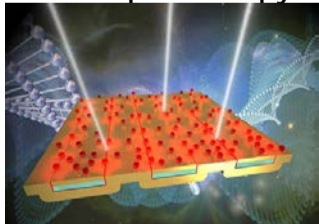


A skull implant that allows a "view" into the brain. It could make ultrasound brain surgery less complex and minimize the need for repeated surgeries.

Source: [Digital Trends](#) (4 August 2017)

NANO TECHNOLOGY

## New Nanostructured Device Boosts Infrared Spectroscopy



This [metamaterial nanostructure](#) can absorb infrared rays 27 times more than other spectroscopy devices. It will be highly useful in detecting chemical compositions for bombs and drugs. Read more at [Advanced Optical Materials](#).

Source: [nanotechweb](#) (4 August 2017)

PAIN MANAGEMENT

## Amid Opioid Crisis, Some Patients Turn to Tech Alternatives

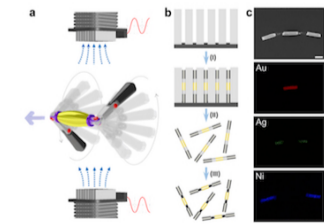


Instead of opioid treatment, here are a few wearables that patients can use for significant pain relief. These alternatives are on a growing trend now as they are less risky than drugs.

Source: [CNN](#) (4 August 2017)

ROBOTS

## Magnetic Freestyle Nanoswimmer Could Make Biomedical Nanobot



This [two-arm nanorobot](#) can swim in a freestyle stroke on an oscillating magnetic field, even propagate through viscous fluids. It could play a part in a broad spectrum of biomedical applications. Read more at [ACS](#).

Source: [nanotechweb](#) (2 August 2017)