

Weekly Discovery

We SHARE to inspire and ignite ideas!

29 May 2017 – 2 June 2017

ARTIFICIAL INTELLIGENCE

Meet the Most Nimble-Fingered Robot Yet



Robots can be trained to grasp objects of any shapes by feeding them the objects data set without them having to practice over and over to learn, saving time.

Source: [MIT Technology Review](#) (25 May 2017)

DISPLAY

Breakthrough could 'drastically' improve smartphone screen resolution

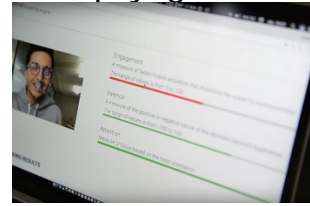


A new era of much sharper digital displays could be ushered in soon with this new surface design that enables the subpixels of a screen to change colours.

Learn more from [Nature](#).
Source: [Silicon Republic](#) (26 May 2017)

FACIAL RECOGNITION

This French school is using facial recognition to find out when students aren't paying attention



A French Business School is using AI tools to measure whether business students tuning in online are staying attuned to class.

Source: [The Verge](#) (26 May 2017)

GRANTS

The best-kept secrets to winning grants



This article details how researchers can win grants. Tips offered include embracing one's inexperience, adding a senior researcher to the team, requesting more money and talking to grant program directors.

Source: [Nature](#) (24 May 2017)

LIABILITY

New technology to impact on future liability



The report, Global Claims Review 2017, mentioned that liabilities for companies are becoming more expensive and discussed technologies that will affect liability, such as 'defeat device' software and risk insurance.

Source: [New Electronics](#) (24 May 2017)

MATERIALS

Hong Kong window coating technology that can shield sun's heat, wins at global awards



This nano-coated glass can absorb 40% of the heat from sunlight, thus provides a pleasant indoor environment and cuts down electricity consumption.

Source: [South China Morning Post](#) (29 May 2017)

NANOTECHNOLOGY

Nanogenerators Could Charge Your Smartphone



Researchers have found a new polymer material which can generate enough power to charge a smart watch or phone.

Source: [IEEE Spectrum](#) (26 May 2017)

PROGRAMMABLE FOOD

MIT researchers create flat-pack food that takes shape in water



Presenting programmable pasta which stores flat, allowing distributors to put in more of it into the same space. This aids in decreasing food shipping costs. When water is added to the pasta, it will then expand to become 3D.

Source: [Dezeen](#) (27 May 2017)

QUANTUM COMPUTING

Silicon-laced diamonds could lead to practical quantum computers



Discover how silicon-laced diamonds can make practical quantum computers. Learn more about the process that is bringing this technology closer to being a reality

Source: [Engadget](#) (29 May 2017)

SMART WEARABLES

MIT used bacteria to create a self-ventilating workout shirt



Researchers from MIT have created a prototype wearable that uses bacteria-triggered vents to respond to sweat. This may further create shirts that produce a pleasant smell when you sweat.

Source: [Popular Science](#) (23 May 2017)

SUSTAINABILITY

Harvard HouseZero - A Retrofit Response to Climate Change

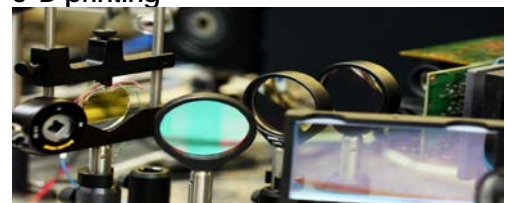


The [HouseZero](#) project aims at making the headquarter of the Harvard Center for Green Buildings a pioneer of sustainable buildings in the world with fully natural ventilation and daylight autonomy, as well as near-zero energy cost.

Source: [ArchDaily](#) (27 May 2017)

3D PRINTING

New technology could revolutionize 3-D printing



Diode-based Additive Manufacturing (DiAM) is a new technique that flash prints a whole layer of metal powder at once. This enables large metal objects to be 3D printed quickly. Read more in [Optics Express](#).

Source: [Phys.org](#) (26 May 2017)

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