

# TECHNOLOGY ROUNDUP

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- International Academic Conference on Development in Science and Technology
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- International Conference on Communication and Network Technology
- International Conference on Clean Energy and Renewable Energy

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### Pakistan got its First Peer to Peer Renting Platform

Pakistan was lacking its renting platform where people could list their unused items for rent. UpRenting is not just a listing platform. It's a complete rental platform with features like escrow payments and CNIC verified accounts. Lender can mark the pickup location on the map where the item can be picked up by borrower.



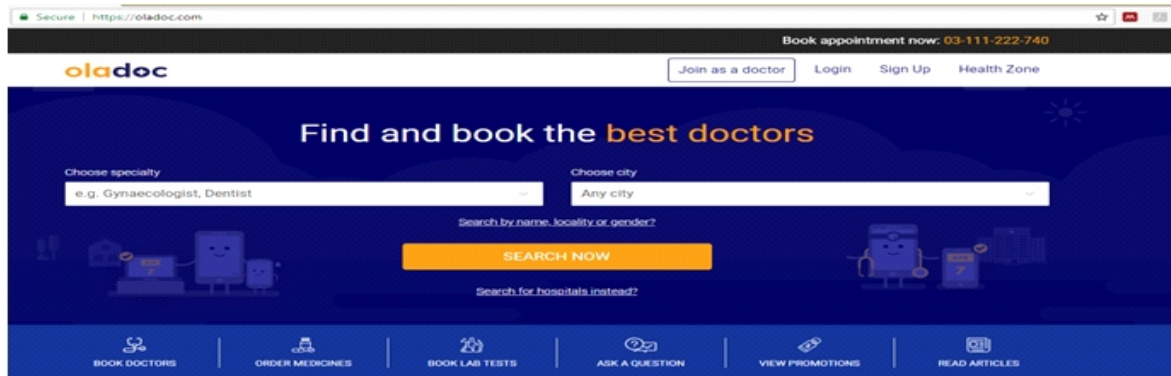
This startup from Karachi wants people to stop buying and start renting. People spend tons of money on items which are used once and then those expensive items are kept in your home and start getting dust. So why not to turn these items into cash? A lot of people can't even afford to buy these expensive items. When you buy an expensive item you've got to stick with it for months. UpRenting is a peer to peer renting platform. Where people can rent out stuff between each other. UpRenting makes the deal safe by holding money into escrow as a third party. It also has online verification platform, users need to submit their national id card to verify their account and then they can't take items for rent. Renting process is developed in very simple way, when lender handover goods to borrower. He have to click on "Start Renting" in the order page and when he have got the item back he need to click on "End Renting" and give user a rating and feedback. It's like an uber ride process. After both users gives rating to each other. Escrow is unlocked, rental charges are sent to Lender and security deposit is sent back to borrower.

To make the renting safe you can enable Verify ID on your listing. It will require borrower to have his/her account verified through CNIC. Escrow is win win situation for both borrower and lender. The borrower will need to pay the money in escrow to UpRenting. This amount is not sent to the lender directly. Borrower is always risk free of giving his security deposit to borrower directly and similarly lender feels confident when rental charges are safe already. UpRenting will release the money when both borrower and lender will finalize the deal by giving rating and feedback to each. "We have many future plans but right now we've to go niche by niche. We'll be going to add pickup and delivery service as well by creating our own fulfillment centers where people can send their unused stuff and we handle everything for them. They will receive payments in their bank account." says Usama Khalid, Founder of UpRenting. UpRenting has still long way to go. But it can boost the sharing economy and revolutionize the renting industry in Pakistan if in coming years UpRenting is able to scale themselves.

Source: [www.perspective.pk](http://www.perspective.pk)

### My Doctor.PK Raises \$1.1 Million in Funding from International VC Firm and rebrands to oladoc.com

MyDoctor.pk, Pakistan's leading online health platform, has announced that it has officially changed its name to oladoc.com.



MyDoctor.pk was founded in 2016 to make it easy for users to find the best doctors and specialists near them. Moreover, it allows users to book confirmed appointments with top doctors and specialists instantly as a free service. It has over 14,000 PMDC verified doctors listed on its website allowing the users to find the right doctor for their needs across Pakistan. The company also expanded to include online medicine and lab test ordering to its services. It has been recognized as a pioneer in Pakistan's online health sector whereby its technology is helping users access 'Health at their fingertips' through its easy-to-use website and mobile applications.

Commenting on the rebrand, Abid Zuberi, Co-Founder and CEO of MyDoctor said, “While our brand name 'MyDoctor.pk' helped us connect with Pakistani users and bring them online for their healthcare needs, we realized its limitations to expand internationally. We wanted our name to reflect our position as a user-friendly company that is making it easier for users to take care of their health as well as allows us to expand internationally. Therefore, we have taken the decision to rebrand as oladoc.com and jump-start our plans to become a global force in the online health sector.

In 2017, MyDoctor.pk helped over 10 lakh Pakistanis find the right doctors and specialists for their medical needs. This traction allowed the company to secure a USD 1.1 million investment in January 2018 from Glowfish Capital, a UAE based venture capital firm with investors from Europe, Middle-East and Asia. Commenting on the investment, Wim Torfs, Managing Partner at Glowfish Capital said, “We are very excited about being part of the digitization of the Pakistani Health sector, making it easier for patients to find the right doctors and bringing professional digital tools into the Doctors' practice. We are committed to being a driving force to further grow and professionalize the industry through oladoc.com. Moreover, we were very impressed by the team and track record of MyDoctor.pk (now oladoc.com) and will support them further with international best practices.”

**Source:** [www.perspective.pk](http://www.perspective.pk)

### World's Groundwater Stores fall under the deep insight of an Australian Physicist's Space Mission

An Australian physicist has developed satellite technology that measures the world's freshwater reserves from space.



GRACE works by measuring the distance between two satellites as they change speed due to minute changes in gravity. (credit: NASA)

The technology is at the heart of the NASA's Gravity Recovery and Climate Experiment Follow-On (GRACE-FO) mission, which launched last month, and follows the first GRACE mission which launched in 2002. "It was a little bit surreal," Professor Shaddock Australian physicist Daniel Shaddock from the Australian National University said. Professor Shaddock developed a retro reflector that uses lasers to measure the world's water reserves from space with unprecedented accuracy. "It measures something that's really important; the presence of water whether that's frozen form or liquid form across the entire globe at once. And that's something you can only do from space.

For the device to work, two laser beams from two separate satellites each travelling at thousands of kilometres per hour need to link with each other from a distance of over two hundred kilometres. "Once the laser links have been acquired I'll certainly rest a little easier that's really the biggest challenge facing GRACE," Professor Shaddock said. "If that doesn't work we won't get any data back, and if it does work, I'm much more confident that we'll get some really valuable insights."

"Any large body of water will generate gravity and that gravity can be picked up by GRACE." Australian National University water expert, Albert Van Dijk, said the first GRACE mission painted a disturbing picture of freshwater loss. Professor Van Dijk said in populated, arid parts of the world such as India, a huge amount of water is being pumped out of the ground. "We're actually mining groundwater and the magnitude of that is actually quite impressive. The mission also revealed that freshwater is disappearing from Greenland and West Antarctica faster than any other place on Earth as ice caps melt.

GRACE detects tiny changes in gravity caused by large masses of water on Earth, which then causes a pair of satellites to speed up or slow down. Professor Shaddock's laser device measures these changes in speed. "In the case of the Laser Ranging Interferometer, we can pick up changes in the separation of the spacecraft by ten nanometres. That's ten billionths of a metre about the diameter of a virus."

Source: [www.abc.net.au](http://www.abc.net.au)

### Putting the brakes on Metastatic Cancer: Medical Researchers find 11 Genes responsible for the Spread of Cancer

A groundbreaking discovery by University of Alberta researchers has identified previously unknown therapeutic targets that could be key to preventing the spread of cancer. Researchers found that by inhibiting several newly identified gene targets they could block more than 99.5 per cent of cancer metastasis in living cells.



In the study, the team used a unique platform it created -- a shell-less avian embryo -- to visualize the growth and spread of cancer cells in real time. The researchers used a molecular tool called a knockout library to insert short hairpin RNA (shRNA) vectors into cancer cells, which bound to specific genes in the cells and stopped them from activating. They then inserted those cancer cells into the embryos and observed as they formed clusters of cancer, identifying which ones showed properties of being non-metastatic.

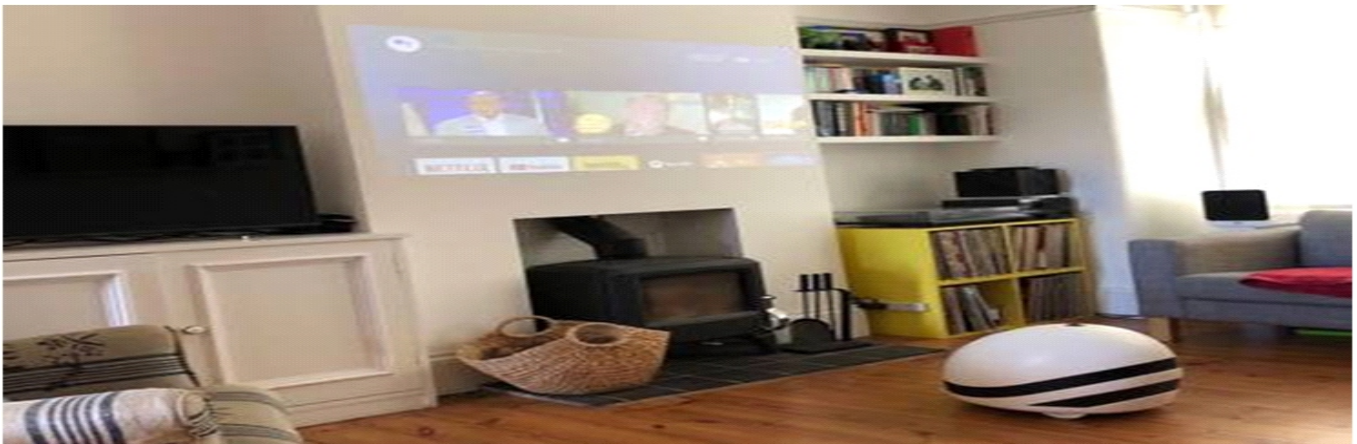
"When we found compact colonies [of cancer], that meant all the steps to metastasis were blocked," said Konstantin Stoletov, lead author of the study and a research associate in the Lewis lab. "After that we could pull them out, query what the gene is, and then validate that the gene is actually responsible for metastasis."

The approach enabled the team to detect and identify 11 genes that appear to play essential roles in cancer cell metastasis. According to the researchers, these genes are widely involved in the process of metastasis and not unique to any one cancer. They now plan to test the metastasis-associated genes and gene products as drug targets with an aim of stopping metastasis. The research was funded by the Canadian Cancer Society and the Alberta Cancer Foundation.

Source: [www.sciencedaily.com](http://www.sciencedaily.com)

### **A week with Keecker: the R2D2-like Robot that wants to replace your TV and Speakers**

Keecker has voice and remote control, a Full HD projector, Bluetooth speakers, subwoofer and 360-degree home monitoring - but is this the future of home entertainment or simply, as C3PO might say, another "overweight glob of grease"?



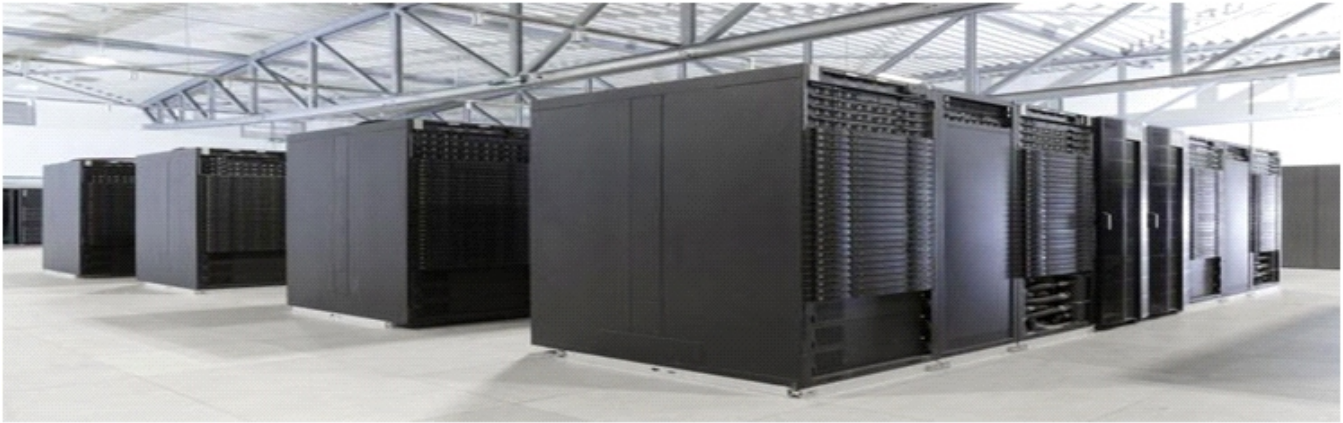
Keecker is an Android-based, app-controlled orb (iOS or Android) loaded with a 720p projector, 4.1 speaker package including subwoofer, multiple web cameras and proximity sensors, Chromecast, voice control and a stripped back Android interface powered by a Qualcomm Snapdragon quad-core processor and hefty 12Ah 300Wh lithium-ion battery offering six hours of continuous movie watching. Essentially it's R2D2 without the snippy attitude.

Measuring 38.8cm tall and roughly 27cm in diameter, the 9kg dome of white plastic is hardly discreet, but, despite our dog's initial misgivings we soon grew accustomed to it being around. There's something Wall-E (or rather his hi-tech girlfriend EVE) about it, which is no bad thing, but remember it will need a permanent home to dock and charge.

**Source:** [www.wired.co.uk/article/keecker-robot-review](http://www.wired.co.uk/article/keecker-robot-review)

### European Supercomputer Shines with Energy Efficiency

Europe is catching up in developing innovative supercomputer architectures. One example of this is the new high-performance computer that is currently being launched at the Jülich Supercomputing Centre (JSC).



JUWELS (Jülich Wizard for European Leadership Science) is regarded as a milestone in the development of a new generation of flexible, modular supercomputers that target an extended range of tasks, from big data applications to computational simulations. With his first module it qualified as number 1 of the German computers for the TOP500 list of the fastest computers in the world.

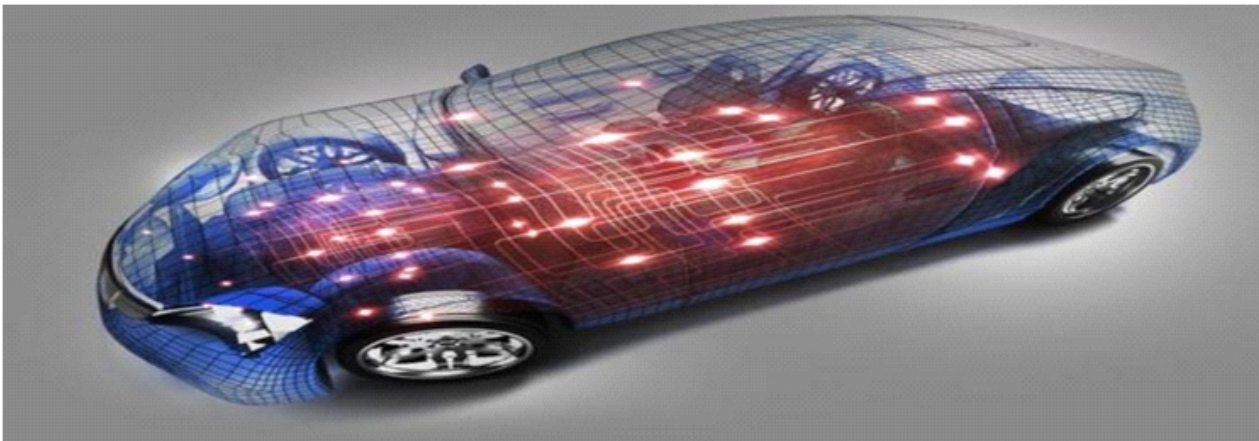
Supercomputers help to understand complex interrelationships in research, for example in climate research or neuroscience. But they are also increasingly being used in many other areas. In addition to classical applications such as simulations in engineering, physics or chemistry, supercomputers are increasingly being used for other tasks involving the evaluation of large amounts of data or machine learning and artificial intelligence (AI). JUWELS has a modular design to meet such different requirements. Thomas Lippert, Director of the Jülich Supercomputing Centre, sees this approach as the key to an affordable and energy-efficient technology with which the coming exascale systems in particular can be realised. Lippert's concept of an adaptable design - also known as "Smart Exascale" - has developed into a comprehensive European project in recent years and has been turned into reality in the EU research project DEEP. Since 2011, experts from 16 European partners have been working on DEEP projects funded by the EU.

The modular concept provides for a supercomputer consisting of several specialized modules that can be dynamically and flexibly combined as required via software. The cluster module delivered in spring 2018 by French IT company Atos together with the software specialists of the German company ParTec is equipped with Intel Xeon 24-core Skylake CPUs. This results in a theoretical peak performance of up to 12 petaflops, roughly equivalent to the computing power of 60,000 PCs. The nodes are interconnected by a Mellanox InfiniBand high-speed network with transfer rates of up to 200 Gb/s.

**Source:** [www.eenewseurope.com](http://www.eenewseurope.com)

### Automotive, Technology Players join Forces on in-Car Multi-Gig-Networking

Autonomous driving is creating a need for a new breed of in-vehicle networking solutions that can transmit data between the increasing number of high-resolution sensors, cameras and processing engines at blazing-fast speeds. Against this background, a number of players from the automotive and semiconductor industry announced the formation of the Networking for Autonomous Vehicles (NAV) Alliance, to drive the ecosystem development required for the next generation of Multi-Gig Ethernet networking in vehicles.



Members of the NAV Alliance are chipmakers Aquantia and Nvidia, automotive tier one suppliers Bosch and Continental, as well as Volkswagen through its North American subsidiary Volkswagen Group of America. The NAV alliance's members are joining together in an effort to shape the future of in-vehicle networking technologies as society prepares for the paradigm shift to autonomous driving.

Akin to an advanced nervous system, this next-generation networking architecture is based on an array of ECUs, CPUs, GPUs, high-definition cameras, sensors, gateways, and storage devices, all connected through a high-speed, Multi-Gigabit/s Ethernet network that works to seamlessly move data throughout the vehicle securely and reliably. In the first place, the group intends to develop an ecosystem for next-generation in-car, multi-gigabit Ethernet. In addition, the members plan to devise the specs for interoperability, security and reliability of this network. Furthermore, the members of the group will drive standardization and establish the necessary standards body liaisons.

“Redundant and diverse AI algorithms are the key to level 5 automation. However, the volume of data generated by multiple types of sensors (camera, radar, lidar, ultrasound) can reach 32TB every 8 hours that level of data transfer calls for a new breed of ultra-high-speed networks, including Multi-gig Ethernet,” commented James Hodgson, Senior Analyst Autonomous Driving for market watcher ABI Research. “The NAV alliance will catalyze the development of a reliable next generation of networking platform for self-driving cars.”

**Source:** [www.eenewseurope.com](http://www.eenewseurope.com)

# **Forthcoming Tech Events**

## **National**

### **International Conference on Science Technology and Management**

28-29 July, 2018

Rawalpindi, Pakistan

[www.iastem.org/Conference2018/Pakistan/1/ICSTM/](http://www.iastem.org/Conference2018/Pakistan/1/ICSTM/)

### **2<sup>nd</sup> Young Researchers National Conference on Water and Environment**

2<sup>nd</sup>-3<sup>rd</sup> August, 2018

Jamshoro, Sindh

[www.ncwe.water.muet.edu.pk](http://www.ncwe.water.muet.edu.pk)

### **ITCN Asia IT & Telecom Show**

25-27 September, 2018

Expo Center, Karachi

[www.itcn.asia.com](http://www.itcn.asia.com)

### **International Academic Conference on Development in Science & Technology**

28-29 September, 2018

Rawalpindi, Pakistan

[www.academicworld.org](http://www.academicworld.org)

## **International Events**

### **International Conference on Emerging Trends in Engineering , Science and Technology**

1-2 September, 2018

Hong Kong

[www.internationalconferencealerts.com](http://www.internationalconferencealerts.com)

### **International Conference on Communication and Network Technology**

22-24 September, 2018

Stockholm, Sweden

[www.worldconferencealerts.com](http://www.worldconferencealerts.com)

### **International Conference on Clean and Renewable Energy 2018**

15-17 September, 2018

Chongqing, China

[Www.worldconferencealerts.com](http://Www.worldconferencealerts.com)

### **International Conference Energy & Meteorology**

16-17 October, 2018

Orlando, USA

[www.internationalconferencealerts.com](http://www.internationalconferencealerts.com)

# **Tech & Trade Offers**

### **Wind Power**

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Technology Information Section works exclusively for support and promotion of technological information on trade and industry in the country. "Technology Roundup" is a news bulletin that provides latest and innovative technology news, forthcoming events, etc. It also promotes products, technologies and services globally in sectors such as Agro-Industry, Bio-Technology, Building Material, Business, Chemicals, Electronics, Energy, Fisheries, Food Processing, Machinery, Packaging, Mining Pharmaceuticals and Textiles.

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