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Vol 2, Issue 2

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HIGHLIGHTS

Science Robotics Journal, Volume 2, Issue 2

*Additive manufacturing of hydrogel-based materials
for next-generation implantable medical devices*

Sau Yin Chin, Yukkee Cheung Poh, Anne-Céline
Kohler, Jocelyn T. Compton, Lauren L. Hsu, Kathryn M.
Lau, Sohyun Kim, Benjamin W. Lee, Francis Y. Lee, and Samuel
K. Sia

Abstract

Implantable microdevices often have static components
rather than moving parts and exhibit limited biocompatibility.

This paper demonstrates a fast manufacturing method that can produce features in



biocompatible materials down to tens of micrometers in scale, with intricate and composite patterns in each layer.

Volume 2, Issue 2 was out on 18th January 2017. [Read more](#)

Robots for Resilient Infrastructure Challenge 2017

An International Robotics Challenge Event, University of Leeds
27th & 28th June 2017.

'In the air, on the ground, underground and underwater – robots to create, inspect, repair and maintain the physical infrastructure of our everyday lives'.

A two day challenge event to bring academics, industry, policy makers and stakeholders together to explore a future use of robots in the creation, inspection, repair and maintenance of critical infrastructure. [Read more](#)



Social Care Robot Challenge 2017

Social Care Robot Challenge 2017 is a national cooperative venture run by University of Sheffield and Bristol Robotics Lab.

To begin addressing the wider challenge we will bring together UK experts in social care robotics from both academia and industry to advance our knowledge of how robots can be integrated into the healthcare services of the future.

Thus we will start to address the predicted steeply rising costs and strain of healthcare provision and services in the UK. [Read more](#)



Surgical Robot Challenge 2017

Surgical Robot Challenge 2017 is an international competition run by Imperial College, London.

This promises to be a compelling contest between some of the leading surgical robotics groups from around the world.

The aim of this challenge is to exploit the unique expertise of the consortium in medical robotics to develop low-cost robot-assisted surgical and diagnostic devices that can benefit the NHS as well as be used as solutions for global health. [Read more](#)



TAROS 2017: Call for Papers & Exhibitors

The 18th Towards Autonomous Robotic Systems (TAROS) Conference will be held in the University of Surrey, Guildford, UK on 19th to 21st July 2017.

Call for Papers: TAROS is a platform for RAS researchers from worldwide, and welcomes paper submissions on a wide range of topics related to the principles and practice of robotics.



Call for Exhibitions: TAROS-2017 also invites organisations such as universities, research institutes, SMEs and industrial companies to participate as an exhibitor. [Read more](#)

CDT 2017 Studentships, Edinburgh

Are you passionate about robotics?

Would you like to work on exciting robotic platforms in our world-class facilities?

Do you have, or expect to obtain, a first-class degree in Engineering, Computer Science, or related subjects? We are now recruiting for September 2017.



If you would like to join our ambitious CDT, please [apply here](#).

NEWS

MICROTECH 2017

MAPS-UK's MicroTech annual conference returns in 2017 on 16 March at Rutherford Appleton Laboratory (RAL), Didcot, near Oxford.

With its updated one-day format, MicroTech brings together the entire microelectronics supply chain and is the only UK event dedicated to Micro-Assembly and related technologies. [Read more](#)



New Research Hubs to Strengthen UK Manufacturing

One of our academic supervisors, Prof Jon Huntley, from Loughborough University, is lead for one of the three £10 million research hubs awarded by the Engineering and Physical Sciences Research Council designed to strengthen the UK's manufacturing base.

The EPSRC Future Advanced Metrology Hub will lead to significant improvements in the speed, accuracy and cost of



As the LCR4 Project (partly funded by the European Regional Development Fund) has officially launched we are starting to gain an abundance of enquiries into the project from a number of businesses and local SME's.



We thought it would be useful to offer more information and some of the facts about this new and innovative project around digital technologies in improving products and processes. Liverpool City Region exclusive. [Read more](#)



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