HEADLINER
AI and the transformation of surgery

Professor Shafi Ahmed

Futurist and Innovator, Consultant Surgeon,
Barts Health NHS Trust
CEO, **Medical Realities**

A 5G technology enabled day in the life of a clinician

DIGITAL SURGERY

CONNECTED

EXTENDED REALITY

DATA/AI

ROBOTICS

REMOTE COLLABORATION
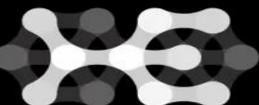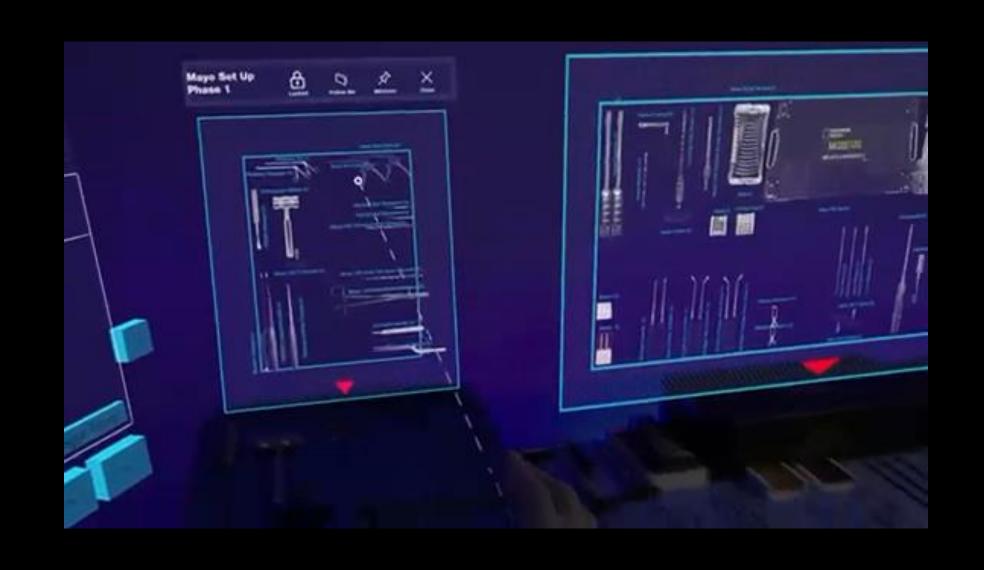
Introducing

 Vision Pro

THE NEW YORKER
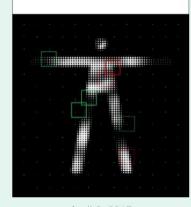
ANNALS OF MEDICINE · APRIL 3, 2017 ISSUE
A.I. VERSUS M.D.
What happens when diagnosis is automated?
By Siddhartha Mukherjee

April 3, 2017

25 dermatologists

2000 biopsy-proven images

"In every test, the network outperformed expert dermatologists."

nature
International weekly journal of science
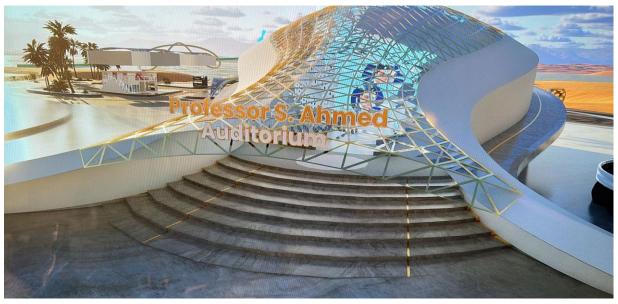
Dermatologist-level classification of skin cancer with deep neural networks

January 25, 2017

DeepMind Technologies Ltd   + Add to myFT

DeepMind develops AI to diagnose eye diseases

Retinal scans used to train an algorithm in 'promising' partnership with the NHS

© Alamy
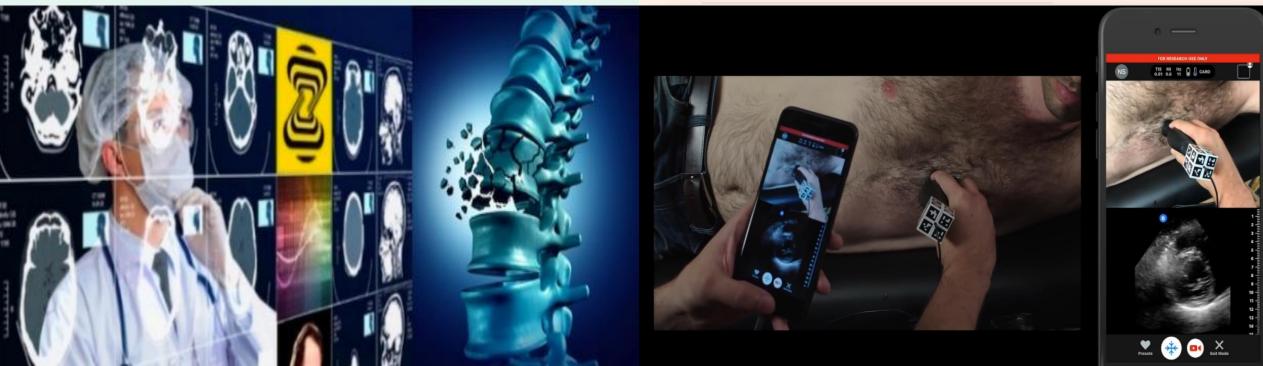
Aliya Ram FEBRUARY 4, 2018

FOR RESEARCH USE ONLY

Endoscopy
Original article

Real-time automatic detection system increases colonoscopic polyp and adenoma detection rates: a prospective randomised controlled study ⊶

ⓘ Pu Wang[1], ⓘ Tyler M Berzin[2], ⓘ Jeremy Romek Glissen Brown[2], Shishira Bharadwaj[2], Aymeric Becq[2], Xun Xiao[1], Peixi Liu[1],

Liangping Li[1], Yan Song[1], Di Zhang[1], Yi Li[1], Guangre Xu[1], Mengtian Tu[1], ⓘ Xiaogang Liu[1]

Author affiliations +
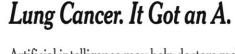
OK, please tell me the symptom that's worrying you the most.

I'm coughing up blood and

have | have Chest | feel

The New York Times

A.I. Took a Test to Detect Lung Cancer. It Got an A.

Artificial intelligence may help doctors make more accurate readings of CT scans used to screen for lung cancer.

RSNA

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Radiology:Artificial Intelligence

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Original Research

Automated Organ-Level Classification of Free-Text Pathology Reports to Support a Radiology Follow-up Tracking Engine

Jackson M. Steinkamp, Charles M. Chambers, Darco Lalevic, Hanna M. Zafar, Tessa S. Cook

LEFT REARWARD VEHICLE CAMERA

MEDIUM RANGE VEHICLE CAMERA

RIGHT REARWARD VEHICLE CAMERA

MOTION FLOW   LANE LINES   LANE LINES   ROAD FLOW   IN-PATH OBJECTS   ROAD LIGHTS   OBJECTS   ROAD SIGNS
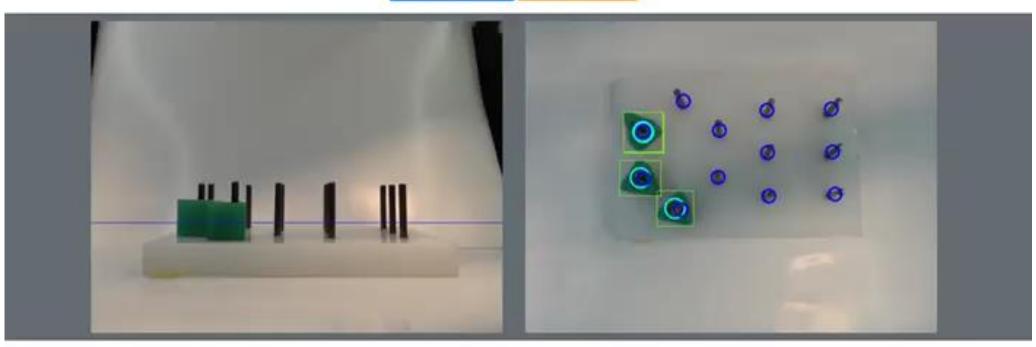
Machine Learning Training System
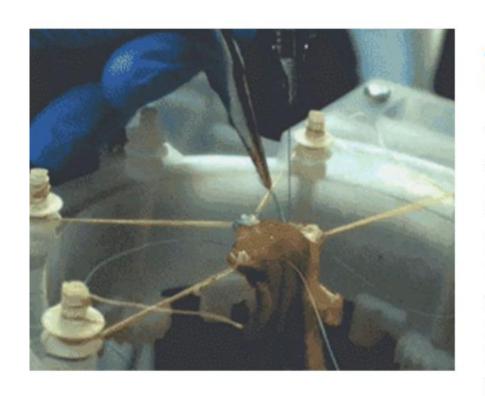
Time: 0 sec   Errors: 0

START EXECUTION   STOP EXECUTION

ML Training System © Innovative Training Technologies SRL - INTECH - CFadvanced

Innovative Training Technologies SRL - INTECH Visit the homepage.

Track fixed pegs

Autonomous Robot Surgeon Bests Humans in World First

The robot and the human surgeons were given the same tricky task: Stitch together two severed pieces pig intestine, a procedure that one expert likens to "repairing a garden hose." The independent robot us its own instruments and intelligence to guide its needle. When the robot's and the humans' results were compared, the robot's sutures were more regularly spaced and more resistant to leaks. But its inventors don't advocate yielding the OR to robots ju yet. They instead advocate for "supervised autonom in which bots could take on certain delicate or tediou tasks. As one inventor said, the surgeons "wouldn't feel comfortable just letting it run and going to take a coffee break."

OR Black Box

Wall of Analytics ™

COMMAND CENTRE

Bradford Tea

GE

Inform

...ether, putting ...ents first.

Brought to you by GE Healthcare Partners with Barco UniSee video wall

Sepsis XR