

Microscope Image Processing

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Microscope Image Processing

The microscope, a mainstay of most laboratories, gets a makeover. Enter the age of AI- and deep-learning-powered microscopes.

Small images, big picture: Artificial intelligence to revolutionize microscopy

As a scientific developer you will be involved in the complete life cycle of the Huygens software: from developing new image processing algorithms for microscopy to the integration of those ...

(Junior) Scientific Image Processing - Software Developer

Deep learning methods show great promise for the analysis of microscopy images but there is currently an accessibility barrier to many users. Here the authors report a convenient entry-level deep ...

Democratising deep learning for microscopy with ZeroCostDL4Mic

The chemical changes sustained by lignocellulosic biomass during hydrothermal treatment are reflected at multiple scales. This study proposes to benefit from this multiscale nature in order to provide ...

Multiscale investigation on the chemical and anatomical changes of lignocellulosic biomass for different severities of hydrothermal treatment

Traditional methods in histopathology are generally limited to thin specimens and require chemical processing of the tissue to provide sufficiently high contrast for imaging, which slows the process.

Holographic histopathology enables fast, precise diagnostics

We are offering a position for an Expert (m/f/d) in quantitative / automated microscopy and 3D image acquisition. The question posed for the first 20 years since the institute's founding has been 'how ...

Expert (f/m/d) in quantitative / automated microscopy and 3D image acquisition

As a private, national research university, Clarkson is a leader in technological education and sustainable economic development through teaching, scholarship, research and innovation. We ignite ...

NIST Awards \$66K Grant to Clarkson University Math Professor

Thanks to an advanced microscopy technique, scientists can now see what the coronavirus looks like at nanoscale and in 3D-swinging spike proteins like tentacles protrude from the virus surface to grab ...

Advanced technique helping research

Pink Rose in Vase is a photograph by Gary McJimsey which was uploaded on April 18th, 2021. Photograph of a pink rose in a vase. This is a still-life, studio photo comprised of a series of twelve ...

Pink Rose in Vase

Only a few years ago, Oppo was competing for attention with Huawei, Motorola, Nokia, LG and Sony. Nowadays, the field is much less crowded. After last year's Find X2 Pro, it felt like Oppo graduated ...

Oppo Find X3 Pro Review: As Apple As Android Gets

Centric Engineering projects offered by supervisors within the School of Biological & Chemical Sciences. This is not an exhaustive list. If you have your ...

Biological & Chemical Sciences

Transcranial ultrafast ultrasound localization microscopy of deep brain vessels in a human ... The researchers employed a vesselness filter, an image processing filter optimized to improve the ...

Ultrafast ultrasound maps tiny blood vessels deep in the human brain

image denoising,curve fitting,filtering theory,hidden feature removal,image colour analysis,image matching,object detection,parallel processing,quantisation (signal),rendering (computer ...

Insun Sun

Thanks to an advanced microscopy technique scientists can now see what SARS-CoV-2 looks like at nanoscale and in 3D - swinging sp ...

China Focus: Having cold, hard looks at building blocks of life

Video microscopes offer live feed imaging directly onto a LCD projector, computer, or a digital screen. The major goal for using a video microscope in medical procedures is obtaining clear real ...

Video Microscopes Market Significant Growth 2021: Industrial Rapid Development by Top Major key Players till 2027

Bengaluru: A new study by an international team of researchers, including those from the Indian Institute of Science (IISc), has unveiled how an unusual form of ferroelectricity arises in ...

Researchers visualise oxygen movement in ferroelectricity materials

The coronavirus spike is the dominant viral antigen and the target of neutralizing antibodies. We show that SARS-CoV-2 spike binds biliverdin and bilirubin, the tetrapyrrole products of haem ...

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