Biomedical Engineering: Problem Solving Using Clinical and Biomedical Applications - Online Event (June 6th-8th, 2017)

Description: This event will discuss the application of engineering principles and design concepts to medicine and biology for healthcare purposes.

Meeting Description:

Including topics such as tissue, neural and pharmaceutical engineering as well as regenerative medicine, this informal international gathering will discuss the future of biomedical engineering for improved healthcare.

Who Should Attend:

Anyone working on, or interested in, biomedical engineering should find this event of value. This includes people working in the fields of micro-implants, tissue engineering, regenerative medicine, neural engineering, Implants, bionics, pharmaceutical engineering and biomaterials.

Talks Include:

- A complete software application for automatic registration of x-ray mammography and magnetic resonance images
- Beyond usability: ensuring biomedical technologies are fit for purpose
- State of the art and failure mechanisms of DLC coated articulating joint replacements
- Sealantis, a biomimetic tissue adhesive inspired by algae
- Bioinformatics tools for RNA-sequencing cancer samples analysis
- Robotics in rehabilitation
- Biomimetic systems for tissue regeneration
- Clinical investigation of miRNA (diagnostics and prognostic)
- Data processing and visualisation in Cardiac Magnetic Resonance Imaging
- Developing image-based biomechanical models to help resolve health problems
- Mechanical design principles in spine surgery: from validation to application.
- Molecular imaging, Radiogenomics and Personalized imaging
- Microfluidics for investigating liver metabolic disorders
- My personalized biomedical model: when medical imaging supports computer-assisted diagnosis and intervention
- Biodegradable magnesium for orthopaedic applications
- Assistive technologies and robotic rehabilitation for spinal cord injury patients
- ANIMO for cartilage development
- AIE Materials for Bioimaging, Diagnosis and Therapy Applications
- The virtual heart - a platform for studying cardiac arrhythmias
- Tissue-engineering of organs using human stem cells

All the event will be recorded and available for all registered delegates up to a month after the event. So if you can’t manage all the days, or the different time zones, you can still have access to the full event.

Contents: Day 1: Cellular and Tissue-Based Engineering

Early Session
- Welcome
- Introduction by the chair
- Talk title to be confirmed
- Sealantis, a biomimetic tissue adhesive inspired by algae
- Biomimetic tumour in-vitro models: organized cell cultures in easy-to-use microfluidic systems
- Microfluidics for investigating liver metabolic disorders
- Droplet microfluidics for new assays enabled by internal microparticle control
- Oral Presentations
Late Session
- Welcome
- Introduction by the chair
- Biomimetic systems for tissue regeneration
- Talk title to be confirmed
- Oral Presentations
- Talk title to be confirmed
- Talk title to be confirmed
- Bioinformatics tools for RNA-sequencing cancer samples analysis
- Oral Presentations
- Talk title to be confirmed
- Talk title to be confirmed

Day 2: Materials Engineering, Medical Devices & Robotics

Early Session
- Welcome
- Introduction by the chair
- Talk title to be confirmed
- State of the art and failure mechanisms of DLC coated articulating joint replacements
- Talk title to be confirmed
- Q and A
- A Multimodal Smart Walker for rehabilitation assistance and clinical evaluation of people with cerebellar ataxia
- Talk title to be confirmed
- Talk title to be confirmed
- Oral Presentations
- Biodegradable magnesium for orthopaedic applications
- Talk title to be confirmed
- Talk title to be confirmed

Late Session
- Welcome
- Introduction by the chair
- Talk title to be confirmed
- Beyond usability: ensuring biomedical technologies are fit for purpose
- Oral Presentations
- Talk title to be confirmed
- Talk title to be confirmed
- Talk title to be confirmed
- Oral Presentations
- Talk title to be confirmed
- Talk title to be confirmed

Day 3: Imaging, Modelling & Computational Analysis

Early Session
- Welcome
- Introduction by the chair
- Talk title to be confirmed
- My personalized biomedical model: when medical imaging supports computer-assisted diagnosis and intervention
- A complete software application for automatic registration of x-ray mammography and magnetic resonance images
- Talk title to be confirmed
- Talk title to be confirmed
- Oral Presentations
- Talk title to be confirmed
- Q and A
- Talk title to be confirmed
- Mechanical design principles in spine surgery: from validation to application

Late Session
- Welcome
- Introduction by the chair
- Talk title to be confirmed
- Molecular imaging, Radiogenomics and Personalized imaging
- Talk title to be confirmed
- Data processing and visualisation in Cardiac Magnetic Resonance Imaging
- The virtual heart - a platform for studying cardiac arrhythmias
- Talk title to be confirmed
- Oral Presentations
- Talk title to be confirmed
- Talk title to be confirmed
- Developing image-based biomechanical models to help resolve health problems

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