

LIFE: PRESENTATION AT MARSS 2024

Lifecare's Dr. Preeti Sharma is invited as a speaker to present a paper at International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS 2024) in Delft, Netherlands.

The paper "Towards Scanning Electron Microscope (SEM) automation" is accepted by the MARSS 2024 Organization Committee and assigned for an oral presentation at the conference in July.

MARSS is a non-profit conference run by the microrobotic community and technically supported by IEEE-RAS and IEEE-NTC. MARSS2024 will be held in-person on July 1st -5th, 2024, in Delft, Netherlands. The conference is the flagship forum to discuss cross-disciplinary activities on manipulation, automation, measurement, and characterization at micro/nano scales, and all kinds of small-scale robots (nm – cm) and their applications.

Dr. Preeti Sharma and her co-authors and colleagues in Lifecare, Christoph Füger, Rustam Gilyazev, Boris Stamm and Prof. Andreas Pfützner have present the paper about an automated process for precision placement of nanosensors with real-time quality control.

More recently, SEM combined with a gas injection system has been utilized by Lifecare for deposition of nanosensors for pressure measurement (Nanogranular Tunneling Resistors, NTRs). Handling a scanning electron microscope for the deposition of the NTRs is laborious and time-consuming, especially when it comes to large-scale production.

Lifecare use a Scanning Electron Microscope (SEM) with customized software to produce the Sencell - Lifecare's unique sensor for Continuous Glucose Monitoring applying osmotic pressure as the sensing principle. Sophisticated 3D-printing processes carried out in a SEM enables Lifecare to obtain the precision necessary to apply pressure sensing elements of a size as small as 40 nanometers (one nanometer corresponding to a millionth of a millimeter).

- Lifecare innovates within nanotechnology, which is a very advanced field. Our employees are passionate about providing patients with diabetes with better solutions for monitoring glucose with our Sencell sensor. It is great to see that our employees' work is appreciated through the invitation to this important conference, says CEO Joacim Holter at Lifecare.

About us

Lifecare AS is a clinical stage medical sensor company developing technology for sensing and monitoring of various body analytes. Lifecare's main focus is to bring the next generation of Continuous Glucose Monitoring ("CGM") systems to market. Lifecare enables osmotic pressure as sensing principle, combined with the ability to manipulate Nano-granular Tunnelling Resistive sensors ("NTR") on the sensor body for read-out of pressure variations. Lifecare's sensor technology is referred to as "Sencell" and is suitable for identifying and monitoring the occurrence of a wide range of analytes and molecules in the human body and in pets.



PRESS RELEASE
16 April 2024 08:00:00 CEST

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