

Conference Programme



08:30-9:00

Welcome and Conference Overview

Prof Dr ir Bram Vanderborght

09:00 -12:30

Presentation of SMART ESRs:

Marwa Eldiwiny

Nonlinear multi-material architectures for functional soft robotics

Seyedreza Kashaf Tabrizian

Enabling autonomous healing in soft robots by assistive and intelligent mechanisms

Leone Costi

Sensorized, Self-Regulated, Self-Healing Universal Gripper for Resilient Manipulation

Syeda Shadab Zehra Zaidi

Soft sensing of low-cost manipulation robots

Muhammad Sunny Nazeer

The Power of Two: Variable Stiffness and Self-Healing for Next-Generation Soft Robots

Somashree Mondal

Control and behaviour of self-healing soft robots using machine learning

Francesca Furia

Environmentally-Adaptive Structural Health Monitoring for Hydrokinetic Turbines

Aleix Costa

Additive manufacturing of self-healing materials

12:30-13:30

Lunch break at the VUB Cafeteria

13:30-17:30

Presentation of SMART ESRs (continued)

Johannes von Szczepanski

Sustainability and creep resistance. The last frontiers for self-healing materials in real-world applications

Usman Shaukat

Anisotropic Motions and Structures Through Ion-Controlled Hydrogel Actuation

Pedram Tootoonchian

A deeper look into magnetoactive soft elastomers

Maria Pozo

Functional Silicones for Advanced Stretchable Electronics

Huijiang Wang

Development of stimuli responsive materials with DLP 3D-printing.

Iring Kösters

The development of reversibly switchable vitrimers for 3D printing

Roman Korotkov

Tough to soft: a screening of supramolecular self-healing materials

17:30

Closure

SMART International Conference
11 September 2023
Vrije Universiteit Brussel (VUB)