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Technological aspects of the e-textiles realization

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Live | Online

Room Pedefferri, Bulding 6
Piazza Leonardo da Vinci, 32 Milano

link will be emailed to
registered participants

[Registration form](#)

Electronic textiles (e-textiles) use various materials and technologies, such as various types of conductive threads, embroidery and knitting technologies for the implementation of electronic elements directly in the textile structure. An important part of e-textiles is the technology of contacting and connecting e-textiles with conventional electronic circuits. Therefore, part of the presentation will be a brief overview of materials and technologies for realizing e-textiles, also including a short presentation of demonstrators and implemented projects in the field of health care, safety clothes and well-being. Weaknesses and current problems in the field of e-textiles will also be described which can be challenges and opportunities for mutual cooperation.

Tomas Blecha received master degree in Electronic and Telecommunications at the University of West Bohemia in Pilsen in 2003, Ph.D. degree in Electrical Engineering on the same university in 2007 and assoc. prof. in 2016 also at the University of West Bohemia in Pilsen. His main research interests are in the areas of design and characterization of microwave printed circuit boards and devices, e-textiles, printed electronics, passive and active electronic components.

Daniela Moravcová received her Master's (1999) and PhD (2006) degrees in organic chemistry at the University of Chemistry and Technology in Prague. She worked in the Isotope Laboratory at the Institute of Experimental Botany Academy of Sciences of the Czech Republic from 1999. In 2012, she joined the University of West Bohemia as a Junior Researcher in the material research group at the Regional Innovation Centre for Electrical Engineering. She joined the Department of Materials and Technology at the University of West Bohemia in 2020, where has been working as an Assistant Professor. Her main research interest includes smart textile; textile- and screen-printed chemical sensors; and electrochemistry.

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