

Research work

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R&D activities of our Chair are performed in a variety of fields of modern graphic and information technology as well as related fields, such as:

Desktop

- Conventional, digital and 3D printing
- Substrate characterisation and print quality assessment: spectroscopic and microscopic methods, image processing/analysis
- Functional printing and printed electronics
- Automatic identification technologies: barcodes and 2D codes, radiofrequency identification (RFID)
- Colour science: colorimetry, colour management, colour appearance models, spectral colour acquisition and reproduction
- Modern graphic materials: recycled paper and board, synthetic graphic materials, UV printing inks, (smart) packaging, effect pigments
- Sustainability and eco-design of printed products and packaging
- Readability and legibility of typography in different media
- Typographic cultural heritage
- User tracking: evaluating user experience in conventional and digital media
- Web design and development for PC, Mac and mobile platforms – smart phones, tablet computers
- Digital photography and video
- 3D modelling and animation
- Microencapsulation
- E-learning
- Scientific and technical informatics

In addition to a close cooperation with the [Institute for Textile and Graphic Technology and Design](#), we also collaborate with several Slovenian and foreign institutes and faculties. The results of our research activities are published in internationally acknowledged scientific and professional journals. A complete [bibliography of our research group](#) is available on the [SICRIS web site](#), while a bibliography of each chair member can be found at his/her personal home page.

During the last few years we – alone or together with the other two chairs of the Department of Textiles, Graphic Arts and Design – organised several international and national scientific and professional conferences where the results of our R&D work were presented.



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