**3D reconstruction and segmentation of wound surface using RGB-D sensor**
Lead Research: **doc.dr.sc. Damir Filko**
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Healing of chronic wounds is a lengthy process that can last even longer if not adequately treated. An objective test is needed by clinicians in order to verify with certainty whether a given treatment is appropriate or not. The aim of this project is to develop a software solution that will, with the application of a modern RGB-D sensor, provide a 3D reconstruction of a part of the human body where a wound is located and automatically detect and segment the wound in the 3D model. Development and the application of this system would result in objective measurement and would significantly increase the quality of patient treatment in clinics for plastic and vascular surgery.