When monitoring the healing of a wound, one of the key measurements is the area, or size, of the wound. Standard practices of wound size estimation are either extremely inaccurate or labor intensive. In this talk, I present work done in collaboration with researchers at the UCSD medical center for developing an automated wound size estimator based on photographs of wounds. I will show how, using techniques from machine vision, it is possible to estimate the size of a wound with minimal user input, and compare this approach to the standard methods of wound size estimation. (Received September 17, 2013)