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Laramie Paxton* (realtimemath@gmail.com) and **Yufeng Cao** (ycao1@hotmail.com). *A New Model for Liver Segmentation Using Min-cut/Max-flow Algorithms.*

While advancements have been made in liver segmentation from 3D imaging, leading to improvements in diagnosis, planning, and assessment, it is still a challenging task due to complex image backgrounds, fuzzy boundaries, and variation among livers. In this talk, we propose a new model that starts with scalar pixels and then associates a vector with each pixel through various convolutions. We will discuss the ways in which we compute the intensities and label means for our three-label problem and the result of solutions obtained using min-cut/max-flow algorithms. (Received February 01, 2018)