

X-rays and later Computer tomography allows doctors to see inside patients without using any invasive methods and is becoming more common part of examinations. Processing and examining the three-dimensional image data still poses unsolved challenges and currently requires considerable time and expertise. Goal of this work is to provide an algorithm and program to perform duct tracking in 3d data, which should shorten time needed for some medical examinations. Finding the ducts and performing measurements, such as length, volume or circumference is desired, as is viewing the results in some more comprehensible way. Deformable models are used in the algorithm. The resulting program is cross-platform and can run on any Windows or Unix-like system.