

NCI-ISBI 2013 Challenge: Automated Segmentation of Prostate Structures

Description

This data set was created for use in the [NCI-ISBI 2013 Challenge - Automated Segmentation of Prostate Structures](#). The challenge data set was divided into 3 parts including training, leaderboard and test data sets. This allowed participants to prepare their algorithms and test their results prior to submitting to a final test phase for selecting the winner.

Image data were selected from [PROSTATE-DIAGNOSIS](#) and [Prostate-3T](#) collections on TCIA. Cases consist of axial scans with half obtained at 1.5 T (Philips Achieva) with an endo-rectal receiver coil (from Boston Medical Center) and the other half at 3T (Siemens TIM) with a surface coil (from Radboud University Nijmegen Medical Centre [RUNMC], Netherlands). They were acquired as T2-weighted MR axial pulse sequences with either 4 mm thick slices at 3T or 3 mm thick at 1.5T. Each file contains nearly all DICOM acquisition parameters except tags that specifically identify Private Health Information.

Each case has had central gland (CG) and peripheral zone (PZ) outlines marked by Drs. Nicolas Bloch (Boston University School of Medicine) and Mirabela Rusu (Case Western University) or Drs. Henkjan Huisman, Geert Litjens, or Jurgen Futterer at RUNMC Netherlands.

Data Access

Data Access

Click the **Download** button to save a ".tcia" manifest file to your computer, which you must open with the [NBIA Data Retriever](#)

Data Type	Download all or Query/Filter
Image Data - Training (DICOM, 60 subjects)	Download
Image Data - Leaderboard (DICOM, 10 subjects)	Download
Image Data - Test (DICOM, 10 subjects)	Download
NCI Challenge Data - Training (NRRD, 60 subjects)	Download
NCI Challenge Data - Leaderboard (NRRD, 10 subjects)	Download
NCI Challenge Data - Test (NRRD, 10 subjects)	Download

Please contact help@cancerimagingarchive.net with any questions regarding usage.

Detailed Description

Detailed Description

Citations & Data Usage Policy

Citations & Data Usage Policy

Users of this data must abide by the [TCIA Data Usage Policy](#) and the [Creative Commons Attribution 3.0 Unported License](#) under which it has been published. Attribution should include references to the following citations:



Data Citation

Bloch N, Madabhushi A, Huisman H, Freymann J, Kirby J, Grauer M, Enquobahrie A, Jaffe C, Clarke L, Farahani K. (2015). **NCI-ISBI 2013 Challenge: Automated Segmentation of Prostate Structures**. The Cancer Imaging Archive. <http://doi.org/10.7937/K9/TCIA.2015.zF0viOPv>



TCIA Citation






Clark K, Vendt B, Smith K, Freymann J, Kirby J, Koppel P, Moore S, Phillips S, Maffitt D, Pringle M, Tarbox L, Prior F. (2013) **The Cancer Imaging Archive (TCIA): Maintaining and Operating a Public Information Repository**, Journal of Digital Imaging, Volume 26, Number 6, pp 1045-1057. DOI: <https://doi.org/10.1007/s10278-013-9622-7>

Other Publications Using This Data

TCIA maintains [a list of publications](#) that leverage TCIA data. If you have a manuscript you'd like to add please [contact the TCIA Helpdesk](#).

Versions

Version 1 (Current): 2015/08/20

Data Type	Download all or Query/Filter
Image Data - Training (DICOM, 60 subjects)	
Image Data - Leaderboard (DICOM, 10 subjects)	
Image Data - Test (DICOM, 10 subjects)	
NCI Challenge Data - Training (NRRD, 60 subjects)	
NCI Challenge Data - Leaderboard (NRRD, 10 subjects)	
NCI Challenge Data - Test (NRRD, 10 subjects)	