

NCI-ISBI 2013 Challenge: Automated Segmentation of Prostate Structures (ISBI-MR-Prostate-2013)

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

Data Type	Download all or Query/Filter	License
NCI Challenge Data - Training (zip, NRRD, 280 kb, 60 subjects)	Download	CC BY 3.0
NCI Challenge Data - Leaderboard (zip, NRRD, 59 kb, 10 subjects)	Download	CC BY 3.0
NCI Challenge Data - Test (zip, NRRD, 53 kb, 10 subjects)	Download	CC BY 3.0

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

Collections Used in this Third Party Analysis

Below is a list of the Collections used in these analyses:

Source Data Type	Download all or Query/Filter	License
Source Image Data - Training (DICOM, 60 subjects, 60 studies, 60 series, 1555 images , 416 MB)	Download	CC BY 3.0
Source Image Data - Leaderboard (DICOM, 10 subjects, 10 studies, 10 series, 261 images , 85 MB)	Download	CC BY 3.0
Source Image Data - Test (DICOM, 10 subjects, 10 studies, 10 series, 271 images , 81 MB)	Download	CC BY 3.0

- [PROSTATE-DIAGNOSIS](#),
- [Prostate-3T](#)

Detailed Description

Detailed Description

Training Data can be further split by source Collection:

- [NCI_ISBI_Challenge-Prostate3T_Training_Segmentations.zip](#) in NRRD format
- [NCI_ISBI_Challenge-ProstateDx_Training_Segmentations.zip](#) in NRRD format

Citations & Data Usage Policy

Citations & Data Usage Policy

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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

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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	License
Image Data - Training (DICOM, 60 subjects)	Download	CC BY 3.0
Image Data - Leaderboard (DICOM, 10 subjects)	Download	CC BY 3.0
Image Data - Test (DICOM, 10 subjects)	Download	CC BY 3.0
NCI Challenge Data - Training (NRRD, 60 subjects)	Download	CC BY 3.0
NCI Challenge Data - Leaderboard (NRRD, 10 subjects)	Download	CC BY 3.0
NCI Challenge Data - Test (NRRD, 10 subjects)	Download	CC BY 3.0