VISCERAL@ISBI 2014

VISCERAL Organ Segmentation and Landmark Detection Challenge

at IEEE International Symposium on Biomedical Imaging 2014
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Proceedings
Preface

VISCERAL (Visual Concept Extraction Challenge in Radiology) aims to organize series of benchmarks on the processing of large-scale 3D radiology images, by using an innovative cloud-based evaluation approach.

While a growing number of benchmark studies compare the performance of algorithms for automated organ segmentation in images with restricted field of views, emphasis on anatomical segmentation and landmark localization in images with wide field-of-view (e.g. showing entire abdomen, trunk, or the whole body) has been limited. VISCERAL Anatomy² benchmark series, namely Organ Segmentation and Landmark Detection Benchmarks, aim to address this need. This ISBI VISCERAL Challenge, a part of Anatomy² series, has been organized on May 1st 2014, within the IEEE International Symposium on Biomedical Imaging (ISBI) in Beijing, China.

The challenge participants have submitted segmentation and localization results two weeks before the challenge session, that were evaluated against test data by the organizers with results presented during the challenge session. Each participant presented his method in a 15 minute oral session during the challenge session. Participants also submitted short papers summarizing their specific methodologies that were used to generate their results.

This volume contains two parts. The first part consist of one paper authored by the organizers of the challenge, and the second part presents a compilation of the submissions by the challenge participants. We thank the authors for their submissions and the program committee for their hard work.

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