

**CFP:** Extended Journal Submission based on our two SHREC'18 3D Scene Retrieval Tracks

**Paper title:**

## A comparison of methods for 3D scene shape retrieval

We would like to call for your participation in a journal submission based on both the original and **extended** datasets and results in the following SHREC'18 3D Scene Retrieval tracks as well as contributions from other state-of-the-art Query-By-Sketch and Query-By-Image 3D Scene Retrieval algorithms.

**SceneSBR** (Query-By-Sketch) track: <http://orca.st.usm.edu/~bli/SceneSBR2018/index.html>

**SceneIBR** (Query-By-Image) track : <http://orca.st.usm.edu/~bli/SceneIBR2018/index.html>

The arrangements for the topic, contents and time pipeline for the journal submission are as follows.

### Highlights:

- 1) A unified benchmark which supports both Query-By-Sketch and Query-By-Model 3D Scene retrieval
- 2) A comparative evaluation of state-of-the-art 3D scene retrieval algorithms using either 2D sketch or 2D image queries

### Contents:

- 1) Benchmark containing **30** classes of sketches, images, and models: the first and the **largest** benchmark for both types of retrieval techniques;
- 2) Benchmark motivations and considerations, building **process** and findings;
- 3) **Evaluation** toolkits;
- 4) Build a **website/homepage** to list, update latest runs based on the benchmark;
- 5) Example state-of-the-art **performances**: improve method presentation, ask for the **running time** information from each participant;
- 6) Compare the performance on sketch queries and image queries and analyze;
- 7) Identify future research **directions**.

### Dates:

- 1) **CFP** for SHREC'18 participants: July 30, 2018
- 2) **CFP** for promising contributions from new groups: July 31, 2018
- 3) (for SHREC'18 participants) **New running results** on both extended benchmarks and **Revised methods' descriptions**: **Sep. 30**, 2018
- 4) **1<sup>st</sup> draft** paper based on SHREC results: Oct. 15, 2018
- 5) **1<sup>st</sup> round review** by organizers and SHREC'18 participants: Oct. 16~Oct. 30, 2018
- 6) (for new methods or new groups) **New methods' descriptions and results**: **Oct. 21**, 2018
- 7) **2<sup>nd</sup> draft** paper based on all the results: Oct. 31, 2018
- 8) **2<sup>nd</sup> round review** by all authors: Nov. 1 ~ Nov. 29, 2018
- 9) Paper submission - November 30, 2018

**Candidates Journals:** CVIU, IJCV, TIP etc.

We would like to warmly invite you to participate in the journal paper submission. Please send an email to [bo.li@usm.edu](mailto:bo.li@usm.edu) (Bo Li) to confirm your involvement as soon as possible. We will send you more details about the links to download the dataset and the submission details.

**Organizers:** Juefei Yuan, Hameed Abdul-Rashid, Bo Li (University of Southern Mississippi), Yijuan Lu (Texas State University)