

## **Plans for a special issue on Underground Infrastructure Research**

To demonstrate progress in our collaboration on the domain of Underground Infrastructure Research the workshop hosts aim to launch a special issue journal. Prof. Sisi Zlatanova is co-editor of the International Journal of 3-D Information Modeling (IJ3DIM) and suggested Dr. Carl Schultz and Dr. Léon olde Scholtenhuis be guest-editor for a special issue (SI) in this journal. This preliminary plan is yet to be confirmed with the editorial board of the journal (see procedure). The expected SI will be open to other scholars, and prioritizes submissions from workshop delegates.

### **Journal**

The anticipated journal is the International Journal of 3-D Information Modeling, IJ3DIM (<https://www.igi-global.com/journal/international-journal-information-modeling-ij3dim/41967>).

### **Call Text**

The working title of the journal is: “Smart Cities’ buried infrastructures: engineering the silent servants of urban space.”

The issue will be dedicated to the infrastructures that currently lie, and will be constructed, in existing cities that are anticipated to grow ever smarter in the coming decades. Our research community focuses on this topic in a variety of ways. The special issue invites manuscripts related to the lifecycle management of urban infrastructures. A non-exhaustive list of potential topics is:

- The detection of underground infrastructures using (remote) sensing technologies;
- The modeling of lifecycle data about underground infrastructures;
- Models that capture knowledge about underground data
- Visualization of underground data for management of cables and pipelines;
- The (collaborative) planning of underground utilities in urban space;
- The multi-stakeholder construction issues of urban buried infrastructures.

The special issue will contain a first set of high-standard papers that present concepts, approaches, and techniques for managing our city undergrounds.

### **Procedure**

After the workshop, we invite participants to indicate whether they intend to submit a manuscript. When at least 5 manuscripts can be expected, guest editors will apply formally for the Special Issue with the Journal Editorial Committee. If authors are interested in advance, they can already submit an abstract (500 word) to [I.I.oldescholtenhuis@utwente.nl](mailto:I.I.oldescholtenhuis@utwente.nl) + [cschultz@eng.au.dk](mailto:cschultz@eng.au.dk)

After the workshop, the procedure will be as follows:

1. Participants are invited to indicate their willingness to publish in the SI (due Dec-7, 2017)
2. If the minimum threshold is exceeded, the proposed guest-editors will formally propose the Special Issue plans to the Editorial Board of IJ3DIM
3. After approval, authors will be invited to prepare a manuscript (due 4 months after approval)
4. Articles will be reviewed by external peers.