

## Workshop on Linked Building Data and Semantic Web Technologies (WLS2019)

29 September-1 October 2019

Gainesville, Florida USA

### Call for Papers and Presenters:

The University of Florida will be hosting the North American Linked Data in Architecture and Construction (LDAC) Workshop on Linked Building Data and Semantic Web Technologies (WLS2019). The research theme of this workshop is:

**Future of Information Exchanges and Interoperability.**

### Topics:

#### Linked Building Data

- Industry Foundation Classes (IFC)
- The ifcOWL ontology
- Linked Building Data ontologies: BOT, PRODUCT, PROPS, OPM
- 3D geometry ontologies
- Infrastructure ontologies
- Semantic sensor ontologies (SSN)
- IoT and Smart City ontologies
- Life Cycle Assessment ontologies

#### Semantic Web Technologies

- Linking building data to product data, GIS data, and sensor data
- Interoperability
- Ontology mapping and instance mapping
- Semantic web services
- Reasoning
- Semantic query systems
- Visualization frameworks

#### Industry Applications and Case Studies

- IoT and Smart City Applications
- Data Structures and Exchanges
- Interoperability
- Intelligent and sustainable transportation safety, health monitoring, and condition assessment
- Construction and Asset Management
- Challenges and Pain Points
- Best Practices and Lessons Learned

Scientific contributions are invited in all emerging areas of computing in the AECO industry, including full technical papers, posters, technology and software demonstrations, and industry case studies. All submissions will be reviewed for content and technical merit, and organized based on their technical area and/or application context. Best practices and applications focusing on Semantic Web Technologies and Linked Data from non-AECO industries are also invited. Highly-rated peer-reviewed research papers will be selected and nominated to a special collection of ASCE Journal of Computing in Civil Engineering.

### Events:

**Pre-Workshop Short Courses:** Get a hands-on learning experience about the major topics being discussed in the workshop. Topics will be announced on the conference website. No experience necessary.

**Demo and Student Poster Session:** Demonstrate technology, software, case studies, or ongoing research. This session will provide academia, industry, and vendors the chance to network during a reception.

**Workshop Sessions:** Selected technical papers and case studies will be able to present during one of the interactive workshop sessions that will be led by a panel of leading academic and industry experts.

**Mini Hackathon:** Utilize your skills and recently acquired knowledge to achieve a solution to a challenge as part of a team. The hackathon will be organized by Info Tech.

### Important Dates:

- (Optional) Technical Paper Abstracts/Intent to Submit Due: **5 July 2019**
- Full Technical Papers Due: **19 July 2019**
- Submission of Extended Abstracts (posters, demos, and industry case studies): **19 July 2019**
- Notice of Technical Papers and Extended Abstracts Acceptance: **2 August 2019**
- Final Presentation Registration: **23 August 2019**
- Workshop: **29 September-1 October 2019**



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