

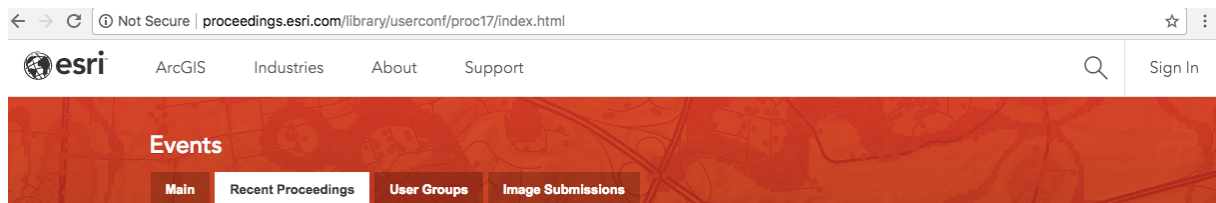
Independent Section 3D Modelling Buildings with Procedural Modelling

Conference: Esri User & Developer Conference 2017, San Diego- USA

Authors: Şevket Bediroğlu, Volkan Yıldırım, Tahsin Yomralıoğlu

Abstract

Developments in 3D GIS era has been evolving in recent years. 3D models of cities are well in the way of visual effects, running performance on PC and some limited GIS functions. Many people working on 3D era don't have awareness about GIS functionalities. Some sectors create higher quality 3D models but not having GIS capabilities. Current 3D GIS models usually models a building completely one single object having same 3D model and GIS attributes. It is clear that modelling all the independent sections of buildings as single parts and relating their GIS attributes in same environment is hard to apply with handcraft modelling when large amounts of buildings to model are considered. Independent section term here, means; houses, shops or offices separate from each other in a building. At this study independent sections of buildings were modeled with procedural modeling (CGA)capabilities of City Engine software. Other side classical 3D GIS models of buildings with facades, roofs etc. were integrated with 3D GIS independent section models. At this point this has enabled making more accurate 3D analysis (Viewshad, 3D Intersect, 3D Buffer) and managing spatial objects efficiently. After all Indoor GIS models will be integrated to these models on cloud. Users of system could easily access indoor models on 3D GIS platform.



2017 Esri User Conference Paper Presentations

Access papers and presentation materials from GIS professionals who shared best practices and case studies at the [Esri User Conference](#) on July 10–14, 2017 in San Diego, California.

Paper Sessions		Technical Workshops		
Show 10 entries		tahs		
Title	Paper	Author	Session	Track
Independent Section 3D Modelling Buildings with Procedural Modelling	Paper	Sevket Bediroglu, Tahsin Yomralioglu, Volkan Yildirim	3D Helps Protect the Past and Design the Future	Urban and Regional Planning
The Geo-spatial Address Registration System Model for Turkey	Paper	Volkan Yildirim, Hazal Ural, Sevket Bediroglu, Tahsin Yomralioglu	SDI for Solving Problems	Spatial Data Infrastructure



Congratulations! Your abstract submission for the 2017 Esri User Conference (UC) has been accepted! You are scheduled to present in the following session (please note that sessions are subject to change. Should your schedule change, we will notify you.):

Paper #: 629

Paper Title: Independent Section 3D Modelling Buildings with Procedural Modelling

Session Title: 3D Helps Protect the Past and Design the Future

Date: Wednesday, July 12, 2017

Time: 3:15 PM - 4:30 PM

Room: SDCC - Room 30 B

Sessions are 75 minutes long and include two to four presentations on similar topics. Each presenter will have approximately 15 to 20 minutes to present, followed by time dedicated to questions and answers. An Esri moderator will help keep the session on schedule, evaluate the presenters, facilitate discussion, and help solve any problems that may arise.

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Sincerely,
The Esri UC Agenda Committee

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