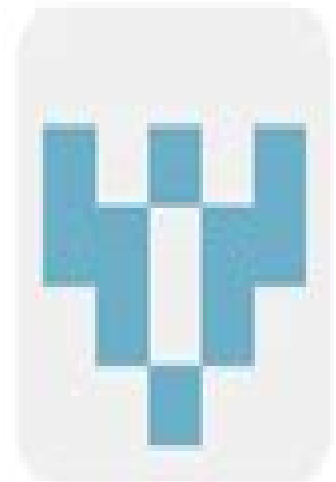


jbdong/ CityEngine_cga



Contains ESRI's CityEngine .cga rules for generation of 3D landscapes.

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Cityengine Cga Rules:

Urban Informatics Wenzhong Shi, Michael F. Goodchild, Michael Batty, Mei-Po Kwan, Anshu Zhang, 2021-04-06 This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning control management and future planning It introduces new models and tools being developed to understand and implement these technologies that enable cities to function more efficiently to become smart and sustainable The smart city has quickly emerged as computers have become ever smaller to the point where they can be embedded into the very fabric of the city as well as being central to new ways in which the population can communicate and act When cities are wired in this way they have the potential to become sentient and responsive generating massive streams of big data in real time as well as providing immense opportunities for extracting new forms of urban data through crowdsourcing This book offers a comprehensive review of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key urban analytics that are fundamental to learning about the smart city and it outlines ways in which these tools can be used to inform design and policy so that cities can become more efficient with a greater concern for environment and equity CORP 2012 - Proceedings/Tagungsband Manfred Schrenk, Peter Zeile, Vasily V. Popovich, Pietro Elisei, 2012 RE MIXING THE CITY Towards Sustainability and Resilience There is nothing permanent except change Heraclitus Cities worldwide are facing rapid social economic environmental technological and cultural changes such as rapid urbanisation aging of society security issues housing emergency new solutions on mobility integration of immigrants food and water shortage etc Especially in times of economic crisis and demographic changes in cities it is necessary to think about how to best handle what we have and therefore RE MIXING THE CITY is a challenge to manage and re combine the elements which make our modern cities in order to better respond to change Product Lifecycle Management in the Era of Internet of Things Abdelaziz Bouras, Benoit Eynard, Sebti FOUFOU, Klaus-Dieter Thoben, 2016-04-20 This book constitutes the refereed proceedings of the 12th IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2015 held in Doha Qatar in October 2015 The 79 revised full papers were carefully reviewed and selected from 130 submissions The papers are organized in the following topical sections smart products assessment approaches PLM maturity building information modeling BIM languages and ontologies product service systems future factory knowledge creation and management simulation and virtual environments sustainability and systems improvement configuration and engineering change education studies cyber physical and smart systems design and integration issues and PLM processes and applications *Energy, Environment and Green Building Materials* Ai Sheng, 2015-05-29 This proceedings volume contains selected papers presented at the 2014 International Conference on Energy Environment and Green Building Materials held in Guilin Guangxi China Contributions

cover the latest developments and advances in the field of Energy Environment and Green Building Materials *Visualizing cityscapes of Classical antiquity: from early modern reconstruction drawings to digital 3D models* Chiara Piccoli, 2018-04-30 The study presented here aims to make a practical contribution to a new understanding and use of digital 3D reconstructions in archaeology namely as laboratories to test hypotheses and visualize evaluate and discuss multiple interpretations

Future Cities ECAADE (Association), 2010 Future Cities For the first time in human history more than 50% of the world's population lives in urban regions Cities are the largest most complex and most dynamic man made systems They are vibrant centers of cultural life and engines that drive the global economy Contemporary cities are environmentally socially and economically unsustainable The quality of urban life is threatened by such factors as pollution rising temperatures limited resources congestion social inequalities aging of large sectors of the world population poverty informality crime and economic imbalances The overall planning of future cities is a challenge that can only be faced by interdisciplinary teams combining multitudes of backgrounds and expertise eCAADe Education and Research in Computer Aided Architectural Design in Europe eCAADe covers Europe Middle East North Africa and Western Asia and works in collaboration with the four other major international associations in the field ACADIA ASCAAD CAADRIA CAADFutures and SIGRADI eCAADe has collaborated with these associations to devise an exciting international Journal for the field called the International Journal of Architectural Computing or short IJAC

The Northwestern Miller, 1890 **3D Modeling of City Building and Lifecycle Simulation** Wenhua Zhu, 2017 With the construction and development of the smart city how to construct the realistic 3D model of the large scale city buildings quickly and efficiently which becomes the research hotspot In this thesis a novel 3D modeling approach is proposed to quickly and efficiently build 3D model of large scale city buildings based on shape grammar and facade rule modeling Building Information Model BIM is an important technical means to enhance the construction industry for the city building design and construction how to better research and application of BIM technology which is the key in this thesis City Building Integrated Information Model CBIIM is specified to manage the information of building lifecycle effectively and realize the information sharing and exchanging This thesis has studied the acquisition and processing of the modeling data Google Earth and ArcGIS software are mainly used to acquire and process image maps data and elevation maps data of the target area these two kinds of data match and overlay which can generate 3D city terrain data with geographic location information Then OpenStreetMap is used to acquire road data of the target area and it can be optimal processed to the necessary road network by JOSM software 3D laser scanning technology is used to collect building surface texture images and create the point clouds model of the target architecture modeling so as to get the modeling dimensions by measurement On this basis this thesis mainly has studied the principle and the process of CGA rule to create building models and studied the method that can separate architectural elements using image segmentation to generate CGA rule automatically and to create building model furtherly Thus 3D building models have been established in the CityEngine

software using CGA rules and facade modeling technology This thesis has specified the City Building Integrated Information Model CBIIM based on BIM The city building information are classified and integrated and the building and component was described with the IFC standard in order to manage the informations of building lifecycle effectively This thesis studies the integrated information association model technology that it can realize standardized component design with associated features and intelligent building design with associated parameters in knowledge rules combined with IFC The construction simulation technology is studied The knowledge rules in the integrated information model provide a reliable reference for the construction simulation and the simulation scene is created through the invoking the integrated information model thus the construction simulation process is completed by the program Taking Baoshan Campus of Shanghai University as an example the modeling process of the whole scene is illustrated and the modeling steps of all kinds of 3D objects are described in detail to solve the specific problems in the actual modeling process Thus the feasibility and validity of the procedural intelligent modeling approach are verified Taking the dormitory of Shanghai University as an example a simulation scene and the simulation model were created by the integrated informations combined with the relevant construction information the construction simulation was completed by the program Thus the feasibility and validity of the CBIIM are verified

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