

## The Analysis of Space Syntax Used in the Development Explore of Hangzhou city's Centrality

**Authors :** Liu Junzhu

**Abstract :** In contemporary China, city is expanding with an amazing speed. And because of the unexpected events' interference, spatial structure could change itself in a short time, That will lead to the new urban district livingness and unfortunately, this phenomenon is very common. On the one hand, it fail to achieve the goal of city planning, On the other hand, it is unfavourable to the sustainable development of city. Bill Hillier's theory Space Syntax shows organization pattern of each space, it explains the characteristics of urban spatial patterns and its transformation regulation from the point of self-organization in system and also, it gives confirmatory and predictive ways to the building and city. This paper used axial model to summarize Hangzhou City's special structure and enhanced comprehensive understanding of macroscopic space and environment, space structure, developing trend, ect, by computer analysis of Space Syntax. From that, it helps us to know the operation law in the urban system and to understand Hangzhou City's spatial pattern and indirect social effect it has made more clearly, Thus, it could comply with the tendency of cities development in process and planning of policy and plan our cities' future sustainably.

**Keywords :** sustainable urban design, space syntax, spatial network, segment angular analysis, social inclusion

**Conference Title :** ICSAUD 2015 : International Conference on Sustainable Architecture and Urban Design

**Conference Location :** Chicago, United States

**Conference Dates :** October 08-09, 2015