

## **New routes:**

### **Re-structuring the street grid of Cidade Satélite estate in Natal, Brazil, to account for users requirements imprinted by means of informal interventions**

# 104

**Gisele Pereira Guedes de Moura, Arquiteta, Edja Bezerra Feria Trigueiro and Valério Augusto Soares de Medeiros**

Universidade Federal do Rio Grande do Norte, Brazil

#### **Abstract**

The proposed short paper and poster communicates findings from a study that follows up the work presented in the 3<sup>rd</sup> International Space Syntax Symposium and that has since been developed as a graduation monograph.

The previous study revealed how users sought to overcome the segregation effects of a plan designed under the guidance of the rationalist urbanism proposed in the Carte d'Athènes, by breaking through space barriers and creating "informal roads" through previously planned open spaces.

Based on findings resulting from a comparative study of integration patterns in the original plans and in the actual present grid, a re-design of some streets was proposed in order to achieve integration levels similar to those resulting from the informal interventions and, at the same time, to preserve some of the functions whose original purposes had been disrupted by the interventions.

The argument seeks to demonstrate that, by increasing or decreasing the integration values of some axes, the new design may contribute to: (1) improve accessibility within and between the four neighbourhood units; (2) reinforce the perception of centrality in areas that have gradually developed into commercial and service sub-centres within the estate; (3) stimulate specific uses – i.e. playgrounds, whose originally designed functions had been prevented by informal vehicle paths; and (4) improve rapid vehicular flow in peripheral roads.

#### **Keywords**

Rationalist urbanism,  
informal planning,  
urban re-engineering

## 104.1

giselemoura@hotmail.com  
edjatrigueiro@eol.com.br  
vaugusto@unb.br