

Title: Semi-Automatic Expansion of Urban Layouts

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Abstract: We aim to develop a system for expansion of city layouts. The system takes as input i) the geometry of the street network of an existing city, and ii) the geographic features of the terrain in which the expansion will take place. New streets that are correctly connected to the existing street layout are generated throughout the expansion terrain. Such streets should adapt to the geographic features of the terrain and should preserve the geometric style of the existing layout. A brief survey on existing methods, a preliminary system, and our proposed approach will be presented.