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EVALUATION OF AN INTEGRATED GIS-BASED CRIME ANALYSIS & 3D MODELLING F IZMIR-KONAK MUNICIPALITY

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Abstract. GIS integrated 3D modelling is crucial for the city planning and design processes because urban modelling
tool used in virtual environments, and provides convenience to work. Although, the creation and display of 3D city
models for large regions is difficult it is vital for planning and designing safer cities, as well as public places. Today, cr
is a significant problem in Turkey. When it was compared by years of crime rates, population growth and urbanizati
rate, an increasing more than in parallel has been observed. This paper aims to discuss GIS integrated 3D modellin
affects in urban planning and design, explaining Turkish planning processes with GIS and 3D modelling. To do that,
presents a case study for Izmir Konak Municipality about GIS integrated crime analysis and 3D models of the crim
scenes. Izmir crime records has been obtained from Izmir Police Department belonging to 2003-2004 and 2005 (D
Deniz, 2007) are used for districts' crime map. In the light of these data, the highest rate crime district, Konak, is
analyzed between 2001 and 2005 data.

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