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### **Sustainability in urban traffic management under heavy rainfalls – A multi-criteria analysis**

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Urban traffic is one of the most important issues which requires employing efficient and strategic tools towards sustainable management of the urban affairs. It is especially of high importance when we are faced with heavy rainfalls which may bring a lot of issues as well as safety risks. The emergency control of this situation and preventing the crisis in this situation necessitates the identification and prioritization of the effective parameters. In this regard, multi-criteria decision making (MCDM) systems can be efficiently used in order to prioritize the influencing parameters for the efficient stormwater management. In this study, the most important criteria which may affect the urban traffic management under heavy rainfalls have been categorized and prioritized considering the sustainability pillars including environmental, technical, social and economic considerations. The results of the study indicated that the application of measures such as designing the proper drainage system to manage the stormwater under heavy rainfalls can be adopted as sustainable strategies among other for the efficient management of the urban traffic under such situations.

#### **Biography**

Reza Mehdizadeh Anvigh has received his master's degree in civil engineering from Azad Islamic university of Mahabad, Iran. He is currently a PhD student in Civil Engineering, University of Aveiro, Portugal.

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