

Objet: Soutenance sciences de l'eau - Shadab Shishegar - 20 juillet 2020 à 9H00
Date: vendredi 17 juillet 2020 14:47:13 heure avancée d'Europe centrale
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Catégorie: Free

AVIS DE SOUTENANCE

DOCTORAT EN SCIENCES DE L'EAU

Tous sont invités à assister à la présentation de la thèse de doctorat de :

Madame Shadab Shishegar

«Contrôle en temps réel des bassins d'orage pour une gestion durable et adaptative des eaux pluviales en milieu urbain»

Directrice de recherche:

Sophie Duchesne

The aim of this thesis is to develop and test local and global predictive real-time control (GPRTC) strategies for a network of stormwater management systems. The basic hypothesis to verify is that GPRTC of stormwater basins can improve SWM in terms of water quality and quantity. Based on this, the main objective of this thesis is to propose a smart decision-making to enhance the quality and quantity control performance of the SWM system in real-time as of a Smart City. The global resiliency of the system in critical situations such as more intense rainfall events imposed by climate change is discussed by providing a comparative analysis of the dynamic and static approaches. The results show that the proposed autonomous control approach has the ability to enhance the quantity and quality control performance of the basins for both local and global control approaches, in comparison to a static control approach.

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