

Referent*in

Speaker



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(English version below)

Kurzvita

Mitali Joshi ist Doktorandin in der Forschungsgruppe Local Environmental and Management Analysis (LEMA) an der Universität Lüttich in Belgien. Sie promoviert über Ansätze auf Stadtebene zur Analyse der von Gründächern erbrachten Ökosystemleistungen. Sie hat einen MSc in Geoinformationswissenschaft und Erdbeobachtung mit einer Spezialisierung in Stadtplanung und -management von der Fakultät für Geoinformationswissenschaft und Erdbeobachtung - ITC, Universität Twente. Ihre Forschungsinteressen umfassen Aspekte der Stadtplanung, städtische grüne Infrastrukturen, städtische Umweltherausforderungen und Stadtmodellierung.

Vortragstitel

Untersuchung des Beitrags von begrünten Dächern zum städtischen ökologischen Netz in Lüttich

Kurzbeschreibung des Vortrags

Urbanisation is a major threat to urban biodiversity, decreasing the species richness due to habitat fragmentation and loss of connectivity. Since open urban green spaces are limited, solutions such as green roofs can be crucial for increasing the green areas in a city, thereby enhancing biodiversity. However, the role of green roofs to urban ecological connectivity is rarely analysed at a city scale. Therefore, here, we investigate the contribution of potential green roofs to the ecological connectivity in the city of Liege, Belgium, using graph theory. Extensive green roofs mainly exhibit characteristics like dry grasslands. Thus, we consider the green roof patches as habitats for species like arthropods and bees. We observe that an increase in the probability of connectivity of dry grasslands with increasing the potential green roofs in the city. This approach aids in studying different scenarios and providing insights to urban practitioners on implementing green roofs in Liege.

Short vita

Mitali Joshi is a doctoral fellow at Local Environmental and Management Analysis (LEMA) research group in the University of Liège in Belgium. She is doing her PhD on the city-scale approaches to analyse the ecosystem services provided by green roofs. She has an MSc in Geo-Information Science and Earth Observation with a specialisation in Urban Planning and Management from the faculty of Geo-information Science and Earth Observation – ITC, University of Twente. Her research interests include aspects of urban planning, urban green infrastructures, urban environmental challenges and urban modelling.



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Speaker

Lecture title

Investigating the contribution of green roofs to urban ecological network at a city scale in Liège

Short description of the lecture

Urbanisation is a major threat to urban biodiversity, decreasing the species richness due to habitat fragmentation and loss of connectivity. Since open urban green spaces are limited, solutions such as green roofs can be crucial for increasing the green areas in a city, thereby enhancing biodiversity. However, the role of green roofs to urban ecological connectivity is rarely analysed at a city scale. Therefore, here, we investigate the contribution of potential green roofs to the ecological connectivity in the city of Liege, Belgium, using graph theory. Extensive green roofs mainly exhibit characteristics like dry grasslands. Thus, we consider the green roof patches as habitats for species like arthropods and bees. We observe that an increase in the probability of connectivity of dry grasslands with increasing the potential green roofs in the city. This approach aids in studying different scenarios and providing insights to urban practitioners on implementing green roofs in Liege.