

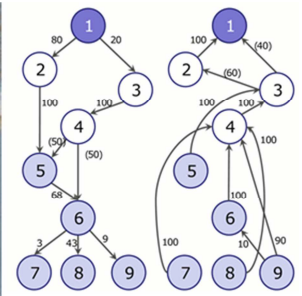


Ben-Gurion University of the Negev
Jacob Blaustein Institutes for Desert Research
The Swiss Institute for Dryland Environmental and Energy Research
Mitrani Department of Desert Ecology

Seminar

Takuya Iwamura

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Tuesday, November 29, 2016, 12:00

Seminar Room, Old Administration Building

Participants are invited to meet the seminar speaker at the MDDE meeting room immediately after the seminar (~ 13:00). Please bring your lunch; snacks will be provided.

Spatial modeling for migratory bird flyways:
towards systematic conservation planning

Migrants pose a challenge for conservation planning because their survival does not necessarily depend on a specific habitat. Long-distance migratory birds, which breed in Arctic region and spend their "winter" in temperate or tropical region, indicate a sudden sharp decline in the past decades. In this talk, I will demonstrate the usefulness of spatial modeling and remote sensing tools to understand the impacts of habitat loss along the migratory flyways. I use the case in Pacific region - as an example for what we can do when we know their habitat use along flyways. We found that the population loss of migrants show non-linear responses to habitat loss, but the impacts of habitat loss depend on the flyway structure. Our results were then applied to select the areas for conservation under limited conservation budgets. At the end, I will also briefly introduce our new attempt here in Israel for the migratory song birds of the Eurasian-African flyways, where we do not have enough data.