Almo Farina

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"I consider the field of soundscape ecology a true frontier of ecology, offering a new perspective to investigate the complexity of our world. I am sure that educating people in listening to the sounds of nature and those produced by human activity will guarantee a better understanding of the dynamics and roles of living beings." Almo Farina

Soundscape Ecology: the new frontier in ecology

Thursday, 10 July 2014, 17 ct, Erwin-Schrödinger-Zentrum, R 0.110

Soundscape ecology has recently exhibited an enormous surge of research that has demonstrated the ability of acoustic information to be an efficient tool for describing complex ecological phenomena at community, ecosystem and landscape scales within both natural and human dominated systems and according to short and long term perspectives.

New theoretical assumptions like sonotope and soundtope models have created stronger linkages between landscape ecology and the ecology of sound, supporting the relationship between topography, vegetation structure, land cover and sonic patterns of aggregated vocal animals.

The scientific practice of soundscape ecology has been powered by recording devices that are readily evolving into inexpensive units with improved microphone quality, efficient data storage, and better acoustic parameterization. Recently, innovative acoustic metrics have allowed researchers to manipulate acoustic files enabling robust synthesis of emergent patterns in frequency dynamics. New technological development that incorporates both improved recording capabilities and acoustic metrics is critical to continue advancing soundscape analyses. Advancement of soundscape research has also extended into several journal publications, books, and dedicated software, which are readily available to students and practitioners.

Soundscape ecology is a promising discipline that will aid in understanding global threats of biodiversity under scenarios of climatic change and a rapid evolution of human societies.

Location
Humboldt-Universität zu Berlin
Erwin-Schrödinger-Zentrum
Rudower Chaussee 26
12489 Berlin
Room 0.110 (ground floor)

THESys Lecture Series

Prof. Almo Farina

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Following the lecture, IRI THESys and the Geography student council cordially invite to a barbecue in Adlershof!

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