

**WORKSHOP**

# Community Analysis and Spatial Statistics Using R

*by Robert Ptacnik*

EEBST  
2018  
İZMİR

Elementary statistical methods  
in ecology

2 day hands on activities

Data organization & data  
visualization in R

Introduction to statistics in R

Basic ordination (CCA, RDA)  
and distance based method

16-17 july 2018

Application deadline 25 June

Visit [www.eebst.org](http://www.eebst.org)

*The workshop is free*



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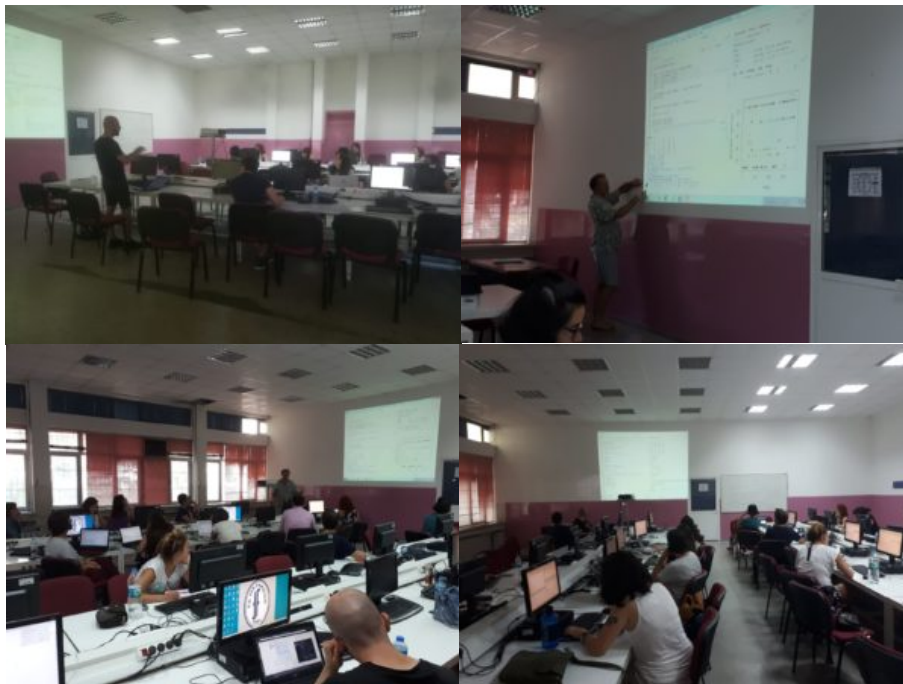
# Community Analysis and Spatial Statistics Using R

*Robert Ptacnik*

(on 16 -17 july, 2 days, 20 participants)

This 2-day hands on workshop will be based on elementary statistical methods in ecology (especially community ecology). At least an introductory knowledge of R will be necessary for the participants; even so, hand on activities about data organization, data visualization in R and introduction to statistics in R will be covered in the first day of the workshop. In the second day participants will learn how to organize data in R, perform basic ordination (CCA, RDA), and distance based methods. Familiarity with elementary statistical methods in community ecology is necessary. The workshop is free, however, priority will be given to the participants of EEBST 2018. You can apply after May 1 when abstract submission is closed.

## The first day of workshop



## The second day of workshop



## WORKSHOP PROGRAMME

### 16 July 2018

9:30 – 10:45	Introduction to R: Basic R syntax and Routines for importing data
10:45 – 11:00	Coffee/Tea break
11:00 – 12:15	Introduction to R: Data handling in R
12:15 – 13:30	Lunch
13:30 – 15:00	General Community Ecology
15:00 – 15:15	Coffee/Tea break
15:15 – 16:45	Community Analysis using R: Introduction

### 17 July 2018

9:30 – 10:45	Exploratory analysis of community data; analysis of richness, rareness, rarefaction
10:45 – 11:00	Coffee/Tea break
11:00 – 12:15	Dissimilarity & beta diversity metrics; community turnover in space and time
12:15 – 13:30	Lunch
13:30 – 15:00	Distance-based community analysis; NMDS; PCoA; permanova
15:00 – 15:15	Coffee/Tea break
15:15 – 16:45	Hands on activities

## WORKSHOP PARTICIPANTS LIST

<b>Name/Surname</b>	<b>Affiliation</b>
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Burak Dindarođlu	İYTE, General Culture Courses, in appointment (Economist)
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