PRE-CONFERENCE WORKSHOP

VISUALIZATION OF TIDY DATA

iCMS 2019
INTERNATIONAL CONFERENCE ON COMPUTING, MATHEMATICS AND STATISTICS

21 - 22 APRIL 2019

OMBAK VILLA, LANGKAWI ISLAND, MALAYSIA

Participants should have basic knowledge in R syntax, for example by doing exercises of R package Swirl or by taking an online course on DataCamp. All topics are accompanied by hands-on exercises.

CONTENTS

First day:
RStudio; Data Analysis with R; some basics and warm up; Tidy data and data manipulation with dplyr; and the graphics package in R

Second day:
Advanced data visualization with ggplot2; Mapping; Maps with ggmap and leaflet; Special graphics for special problems; Overview on interactive visualisation tools; Web applications with R shiny and markdown

Who should attend? Lecturers, Researchers, Engineers, Students, Industry Professionals and Scientists of any discipline who wish to explore R.

SPEAKER

Dr. Matthias Templ

Dr. Matthias Templ is the owner of data analysis company OG. He obtained his PhD in Technical Mathematics from Vienna University of Technology. He was an associate professor at the same university. Currently Dr. Templ lectures at the Institute of Data Analysis and Process Design, Zurich University of Applied Sciences, Switzerland. He also holds a position as a consultant to the Palacky University Olomouc, Czech Republic and is a researcher at the Quality and Methods Unit at Statistics Austria. His other consultation works include for the World Bank and the OECD. His main research interest is in the area of imputation, statistical disclosure control, visualization, compositional data analysis, computational statistics, teaching in statistics and cluster analysis. He participated in many European research projects, to name one of those: the AMELI project for adequate estimation of poverty and social exclusion. Dr. Templ has more than 280 scientific contributions in books, scientific journals and conferences as well as more than 40 papers in well-known indexed scientific journals. He is the author and maintainer of several R packages for official statistics, such as sdcMicro package for statistical disclosure control, the VIM package for visualization and imputation of missing values, the simPop package for synthetic population simulation, and the robCompositions package for robust analysis of compositional data. In addition, Dr. Matthias Templ is the editor-in-chief of the Austrian Journal of Statistics; associate editor for Springer's Journal Wirtschafts-und Sozialstatistische Archiv; editor for the journal The Register; and on the editorial board of three other journals - JWARP journal, The Journal Transactions on Data Privacy, and the Journal Frontiers in Biomedical Physics.

WORKSHOP FEE

Please refer to the conference website https://uitmicms.wixsite.com/icms2019/

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