Statistička analiza podataka:
Popis literature za učenje

UNIZG FER, ak. god. 2021./2022.

Predavanje 1: Uvod u statističku analizu podataka

- Benšić, Šuvak. *Primijenjena statistika*, Poglavlja 1 i 2

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 1.1 i 1.2

- Diez et al. *OpenIntro Statistics*, Poglavlja 1.2, 1.3 i 1.4.1

Predavanje 2: Deskriptivna statistika

- Benšić, Šuvak. *Primijenjena statistika*, Poglavlje 3

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 1.3–1.6

- Diez et al. *OpenIntro Statistics*, Poglavlje 1.6

Predavanje 3: Uvod u statističko zaključivanje

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 8.1–8.7, 9.1–9.12

- N. Elezović. *Slučajne varijable*, Poglavlje 7.3

- N. Elezović. *Statistika i procesi*, str. 72 i 73

- Harvard Statistics 110, Predavanje 29: Law of Large Numbers and Central Limit Theorem (cijelo predavanje). `https://www.youtube.com/watch?v=OprNqnHsVIA`

- Harvard Statistics 110, Predavanje 30: Chi-Square, Student-t, Multivariate Normal (prvih 25 minuta). `https://www.youtube.com/watch?v=MF-XSJOsGqw`

Predavanje 4: Testiranje statističkih hipoteza

- Benšić, Šuvak. *Primijenjena statistika*, Poglavlja 5.4 i 5.4.1

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 10.1–10.3

- Diez et al. *OpenIntro Statistics*, Poglavlje 4.3

Savjet: pročitati cijelo 4. poglavlje koje pokriva 3. i 4. predavanje.

Predavanje 5: Statističko zaključivanje za metričke podatke

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 9.13, 10.4–10.7 i 10.10

- Barttlet's test. `http://www.itl.nist.gov/div898/handbook/eda/section3/eda357.htm`

Predavanje 6: Statističko zaključivanje za kategorijske podatke

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 10.8, 10.9 i 10.11–10.13

- Hodges et al. *Basic Concepts of Probability and Statistics*, Poglavlje 12.2

Predavanje 7: Postupci ponovnog uzorkovanja

- J. Shao, D. Tu. *The Jackknife and Bootstrap*. Springer Series in Statistics, `https://link.springer.com/book/10.1007/978-1-4612-0795-5`, Poglavlje 1

- B. Efron & G. Gong (1983). *A leisurely look at the bootstrap, the jackknife, and cross-validation.* The American Statistician, 37(1), 36-48. `https://doi.org/10.2307/2685844`

Predavanja 8 i 9: Linearna regresija

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 11 i 12.1–12.6

- Wikipedia. *Standardized residuals.* `https://en.wikipedia.org/wiki/Studentized_residual`

Predavanje 10: Regresija – binarna zavisna varijabla

- G. Rodriguez *Logit Models for Binary Data.* `http://data.princeton.edu/wws509/notes/c3.pdf`

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 12.8 i 12.9

Predavanje 11: Analiza varijance – ANOVA

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 13.1–13.5, 14.1–14.3

Predavanje 12: Neparametarski postupci

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 16.1–16.4, 16.7

Predavanje 13: Alternativni pristupi analizi podataka

- Walpole et al. *Probability & Statistics for Engineers & Scientists*, Poglavlja 18.1 i 18.2

- P. Ipeirotis. *Are you a Bayesian or a Frequentist? (Or Bayesian Statistics 101).* `https://tinyurl.com/cuyvfka`