Probability and statistic set 2

Wiktor Hamberger

March 19, 2020

1 Theory

 Σ is $\sigma\text{-field}$ when:

- 1. $\Omega \in \Sigma$,
- $2. \ A \in \Sigma \Longrightarrow A^C \in \Sigma,$
- 3. $A_i \in \Sigma, (i = 1, 2, ...) \Longrightarrow \bigcup_{i=1}^{\infty} A_i \in \Sigma.$

2 Exercise 3.

$$\Omega = \{1,2,3,4,5\}, S = \{1,4\}, \Sigma = \{\emptyset, S = \{1,4\}, \{2,3,5\}, \Omega\}$$