

Excercise section 1: Repetition of basic statistics

MVE220/MSA400

March 28, 2018

Recommended problems are from Stokastik: Sannolikhetssteori och statistikteori med tillämpningar[1].

The underlined problems will be prioritised during the exercise session 09.04.2018. Thereafter, we will look at some of the Mixed problems.

Problems that cover specific topics:

- (i) Distribution function (chapter 3.3, 3.4): 3.3.1, 3.4.1,
- (ii) Independent events, conditional probabilities (chapter 2.5): 2.5.1, 2.5.5, 2.5.6
- (iii) Poisson distribution (chapter 3.6): 3.6.18, 3.6.21, 3.6.22
- (iv) Poisson process (chapter 4.3): 4.3.1, 4.3.2, 4.3.6
- (v) Expected value, variance, moments (chapter 3.5): 3.5.1
- (vi) Correlation (chapter 3.8.2): 3.8.1, 3.8.3
- (vii) Point estimation (chapter 7.2): 7.2.1, 7.2.7, 7.2.9, 7.2.17, 7.2.19
- (viii) Confidence intervals (chapter 7.3): 7.3.1, 7.3.3

Mixed problems:

1. Chapter 2: 209, 211
2. Chapter 3: 306, 315, 320
3. Chapter 4: 407
4. Chapter 7: 702, 714

References

- [1] Sven Erick Alm and Tom Britton. *Stokastik: sannolikhetssteori och statistikteori med tillämpningar*. Liber, 2008.