

HOMework

Deadline: 20th of June

- Every chapter from the book [Yates, Goodman-Probability and Stochastic Processes \(2nd Edition\)](#) has a final section consisting of proposed problems. Each problem is labelled in the following way

● Easy   ■ Moderate   ◆ Difficult   ◆◆ Experts Only

- Your homework will be to solve some of these proposed problems from Chapter 2 (Discrete Random variables), Chapter 3 (Continuous Random Variables) and Chapter 4 (Pairs of Random Variables) respecting the following rules:

- **Rule no. 1**

By solving this homework you can obtain a maximum of **10 points** (which represents the maximum grade 10)

- **Rule no. 2**

A problem labelled [Easy](#) values **1 point**

A problem labelled [Moderate](#) values **2 points**

A problem labelled [Difficult](#) values **3 points**

A problem labelled [Experts Only](#) values **3 points**

- **Rule no. 3**

It is not allowed to solve [more than 3 problems](#) from each chapter

- **Rule no. 4**

You will get **0 points** for each solved problem which is identical with a problem solved by one of your colleagues. You can change the statement of a problem in order to avoid this possibility. By changing I mean: adding new questions/tasks, changing the values, etc. In the same time there are lots of proposed problems in that book, thus the probability of having identical problems is not that high.

For example, student A solves

from Chap 2: 3 easy problems

from Chap 3: 2 easy and one moderate

from Chap 4: 1 moderate

He gets:  $3 \times 1 + 2 \times 1 + 1 \times 2 + 1 \times 2 = 9$  points

- [The best strategy is to study some solved problems and then to try to solve similar problems from those proposed in that textbook.](#)

- Before you will submit you homework, you'll have to merge all your problems into one pdf file. I think it's a good idea to solve the problems on paper, take photos of these papers, convert the photos to pdf, merge the pdf files into one file called [Homework\\_YourName](#) and send it to [emanuel.cismas@upt.ro](mailto:emanuel.cismas@upt.ro)