

University of Cologne
Institute of Mathematics
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WS 2016 / 2017: Topics in Stochastics (Pattern recognition)

We will follow parts of the book [DGL96]. If time and preparatory training admit, the finale will be a treatment of neural networks ([DGL96, Chapter 30]).

The seminar is aimed at BSc and MSc students, and participants are expected to have mastered the contents of the lectures ‘Einführung in die Stochastik’ and, preferably, ‘Wahrscheinlichkeitstheorie I’. In order to obtain the corresponding credit points, participants have to give a presentation on one of the available topics and actively contribute to the discussions of the remaining presentations.

Presentations can be given in English or German. At <http://www.alt.mathematik.uni-mainz.de/Members/lehn/le/seminarvortrag> you can find some advice on how to prepare a valuable seminar talk.

Students who intend to participate in the seminar are asked to notify the lecturer via email (see above) by **July 29th, 2016**, including

1. matriculation number,
2. semesters studied,
3. relevant lectures attended and grades obtained.

The preparatory meeting will take place on Friday, October 14th.

Room: Mathematics 204 (Seminarraum 2)

Time: Wednesday, 4 to 5:30 p.m.

References

- [DGL96] Luc Devroye, László Györfi, and Gábor Lugosi. *A probabilistic theory of pattern recognition*, volume 31 of *Applications of Mathematics (New York)*. Springer-Verlag, New York, 1996.