# The wonderful world of stochastic systems\*

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Abstract—Describe topic and relevance in a few sentences so that the reader is motivated to read the whole paper.

## I. INTRODUCTION

Introduce topic and describe motivation and relevance of problem/topic.

In this paper we give an introduction to the results presented in paper(s) [1]. We present the main results, discuss ideas and illustrate the results with simulations.

Notation. Define notation.

#### II. BACKGROUND

Necessary background in nonlinear systems and control (material beyond what was considered in the course.)

## III. MAIN RESULTS

Ideas, theorems, proofs and discussions .....

## IV. EXAMPLES

Show and discuss simulation examples etc....

## V. CONCLUSIONS

Summarize the main points (with more details than in the preceding introduction). The paper should not be between 4 and 8 pages.

## **APPENDIX**

Appendixes should appear before the acknowledgment.

## **ACKNOWLEDGMENT**

## REFERENCES

 R. Brockett. The early days of geometric nonlinear control. *Automatica*, 50:2203–2224, 2014.

<sup>\*</sup>Project within the course Statistical Learning and Stochastic Control, University of Stuttgart, October 24, 2017.

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