Report

for the project seminar:
Online Monitoring of Complex Conditions for Event-based Distributed Architectures

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1 Introduction

High-level introduction to Online Monitoring (OM). Try to answer the questions: why is OM useful? Why is OM good *for event-based distributed architectures*? What is its difference to other approaches, e.g. testing?

2 Approach

High-level introduction of the particular approach of Online Monitoring (logic-based specification of conditions). A few words for QTL (DejaVu) and MFOTL (MonPoly).

3 Use-cases

Shortly present the use-cases. For each use-case: present the event types, (an example of[1]) the property formulation. Present the results of your checks: violations, memory, computation time.

Don't forget to describe the experiments, i.e. a file with 1010 patients and 10 violations, etc.

4 Discussion

Discussion of the results of the previous section. Share possible insights. Why does one tool perform well for one property and worse for another? How can the (performance) differences between the tools explained?

[1] If it's too hectic to write down all the formulas, that is.

5 Conclusion

Final thoughts. Summary of insights. Take-away messages. Do you agree with what the literature says (and Section 1) about OM? Is it good for such systems? Pros/Cons?

References

[1] Include here every resource you used while studying and preparing for this seminar (tutorials, URL, papers).