Automated Detection of Significant Spots in Test Result Data

Outline
When testing a system, diverse data can be obtained. An example are software tests. A performance or scalability test could reveal diverse information based on the expertise of the expert analyzing the data. This thesis wants to analyze and develop methods for automatically filtering the most relevant information out of larger data sets. The intended application domain are software stacks that are used in networks and other systems.

As a second focus, suitable representations for the identified relevant data will be analyzed and developed.

Possible Structure
- Analysis
  o Analysis of automated data filters (e.g. fourier transformation).
  o Analysis of visualization techniques.
- Related work
  o What do other projects do that answer related questions?
- Design
  o Which components do you need?
  o Which are options for the design? Why are your choices good?
- Implementation
  o Frameworks used, screenshots, etc.
- Evaluation
  o How well does it work?
    ▪ Metrics!

Requirements
Curiosity, Joy to work in a team, Knowledge in Java.
Ability to write good code (including unit tests and documentation).

Contact
If you are interested, please send an email briefly explaining why you think to be the right person for this thesis to:

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