Participant Identifier: Please don't fill in this field!

Business Process Runtime Anomaly Detection

In this practical experiment, you will need to analyse process execution models and related process execution logs/documentation to identify which parts of given process execution traces (i.e., recorded/logged executions of process instances) are anomalous. For this we assume that an anomaly is recorded behaviour which does not comply to a given documentation or previously recorded executions which were deemed as being benign. After you have identified a single anomaly you will be asked to specify which execution event hold by the anomalous execution log (trace resp.) is most likely related to the anomalous behaviour which was just identified by you.

Experience and Personal Information

How many years of process modeling and analysis experience do you have (if applicable)?

How many years have you been working in a process oriented industry or research position (if applicable)?

Do you have any prior knowledge on anomaly detection?

☐ Yes ☐ No

Do you have any prior knowledge on the “BPMN” process modeling language?

☐ Yes ☐ No

Please answer the following questions after completing the experiment

Which of three compared approaches (with assistance [colors & rules], partly assistance [colors] or without assistance [no rules nor colors] - from the anomaly detection algorithm) did you prefer?

Which of the compared three approaches (with assistance [colors & rules], partly assistance [colors] or without assistance [no rules nor colors] - from the anomaly detection algorithm) gave you a higher confidence to have chosen the correct anomalous execution events while performing the experiment?

Estimate: Where you faster when solving the given tasks/exercises or finding the individual anomalies with assistance [colors & rules], partly assistance [colors] or without assistance [no rules nor colors] - from the anomaly detection algorithm?