Patrik Eklund, Umea:

Break indication: Data analysis and software development
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Development of web break indication involves specification of software integrations, data analysis and software engineering.

Software integration requires data communication with the process. The monitoring systems connected to data logging provide required data sets for analysis and modelling/refinement purposes. For integrations, necessary linkages need to be provided.

Selection of measurements is done by combining multivariate techniques with selections directly suggested by domain experts. Data analysis of selected measurements requires preprocessing and efforts to identify features in measurements. Preprocessing involves various computational techniques, also combined with heuristics so as to find optimal characterisations of "situations" related to meaurements or sets of measurements.

The software engineering task should not be neglected as this requires care in selection of software development platforms, especially in applications where graphical user interfaces and communications need to be handled.

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