

General technical conditions for online-retraining

Because technical processes can change by abrasion, erosion and contamination, as well as by drift of measured values, atlan-tec Systems GmbH (hereinafter referred as ats) installed an online-retraining algorithm, which updates the model cyclically. This retraining algorithm need optimal data sets.

Therefore the part of the offered service is an automated retraining of the models with **NeuroModel® Script Online**. The system reads an agreed interface or from an agreed database in agreed intervals from training data and trained thus an updated neuronal model.

The data which are provided available to the model, do not change may be in terms of the applied measurement methods and sensors, of the applied analytical methods, because the retraining cannot be successful, without being redeveloped and adapted.

The client guarantees ats to the operation of the algorithm, that he will operate special care in data management and data maintenance, to ensure a trouble-free operation of the retraining. In particular it does not change any data structures or contents of the data sources, which are necessary for the operation of the online-retraining.

The client discloses not-usable operating conditons to the system. Such operating conditions are often a product change, technically caused stoppage of production or shutdowns. The client and ats agree on this a binding method or input procedure for transmission of information such states via the user interface in the PLS.

The client must define, in which system and in which format the data storage will be performed of him, so that the interface can be defined. Alternatively ats and the client may agree an XML- or flat file format. Without immediately and promptly digitally recorded laboratory data, the system cannot be operated safely.

The client must take organizational measures, to register the sample name dates of any laboratory data accurately. It does not suffice, to provide estimating times or hold the dates in writing. The sampling should e.g. be as provide an electrical signal to the PLS, where the sample name date is accurately recorded. Ever accurate the sample name dates in time, ever accurate the models are.

Both parties agree, that any major change in the process must lead to an adaptation process of the retraining, that eventually lead in this, that models are not valid or available for a few time, because not sufficiently present many data with which the retraining algorithm can create new valid. This restriction is not relevant for ensuring, as it is an inherent property.