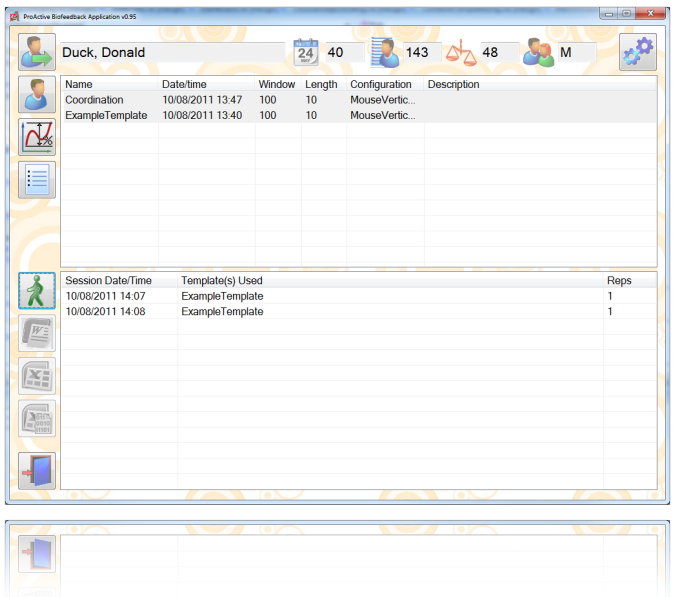
proActive

BIOFEEDBACK MADE EASY

proActive is designed to make realtime biofeedback experiments based on EMG or other biophysical signals easy to set up, run and analyze. The user interface is intuitive and easy to use, yet offers powerful features such as real time signal processing, a subject database, automatic result calculation and automatic reporting.

EASY TO USE

proActive is designed so that you can learn how to use it in just a few minutes. All functions are accessed from a central dashboard where you select key tasks such as entering subject information, recording templates, conducting experiments and generating reports. All buttons have intuitive graphical icons, making it easy to remember how to navigate. To further simplify the workflow, each major step has its own window containing only the controls you need for the specific task.



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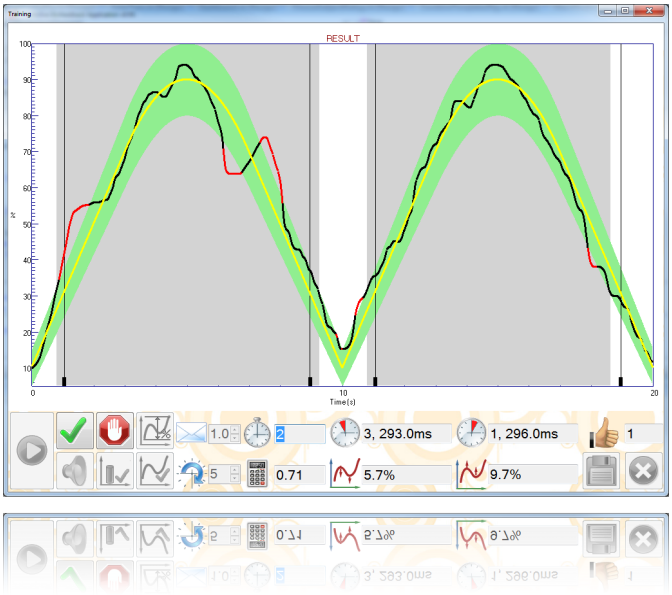
SUBJECT MANAGEMENT

proActive includes a subject management module which organizes all information about a particular subject, including personal details, notes and all data files relating to templates and completed experiments. All subject information is kept conveniently at hand so that you don't have to search the hard drive or network to find reports or data files.

REAL-TIME SIGNAL PROCESSING

Depending on the signal used for the biofeedback experiment, proActive will apply appropriate real-time signal processing as soon as the signal is received by the computer. EMG signals, for example, will be rectified and smoothed before they are displayed, and you can also choose to apply a scale and an offset. Furthermore you can record a signal level to use for amplitude normalization in case you want to base your analysis on relative rather than absolute values.



MANY APPLICATIONS

proActive lets you either record or manually specify a target signal template which the subject tries to replicate in real-time during the actual experiment. For example, the EMG signal from a healthy muscle can be recorded, and this can be used as a template for training an affected muscle by asking the subject to try and generate the same signal. Other sources for a template could be force plate data, grip force, or accelerometer data, and this could be used for everything from rehabilitation of stroke patients to improving the muscle coordination of athletes.

RELEVANT RESULTS FAST

As the subject repeatedly trains using a pre-defined or pre-recorded template, results are automatically calculated and stored. These include timing and amplitude information where periods of signal activity are compared with the template, as well as an overall score indicating how well the subject is performing. You can combine different templates for the training, and the results for each template are calculated for each repetition. At the end, you can automatically generate a report in Microsoft Word which contains the timing, amplitude and overall results, or you can export the results directly to Excel for further analysis.

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