Event Save TPR Signal

Overview

The 'Event_Save_TPR_Signal' command is used to create and save a Target Pattern Recognition (TPR) file. This file captures the shape of a signal surrounding a specific event and is later used in pattern-matching commands like 'Event_TPR_Signal' or 'Event_TPR_File'.

- Works by taking a window frames around an event and saving that signal segment as a template than can be used for event detection in other tirals.

Requirements:

- A well-defined event must already exist in the file, and the signal around the event must be clearly identifiable and stable.
- The radius (number of frames before/after) should capture the full motion feature.

Pipeline Command

The pipeline command is shown below as seen in the Visual3D application:

```
Event_Save_TPR_Signal
! /FILE_NAME=
! /PATTERN_FILE=
/SIGNAL_TYPES=
! /SIGNAL_FOLDER=ORIGINAL
/SIGNAL_NAMES=
/PATTERN_EVENT_NAME=
! /PATTERN_EVENT_INSTANCE=1
! /TPR_RADIUS=7
;
```

Command Parameters

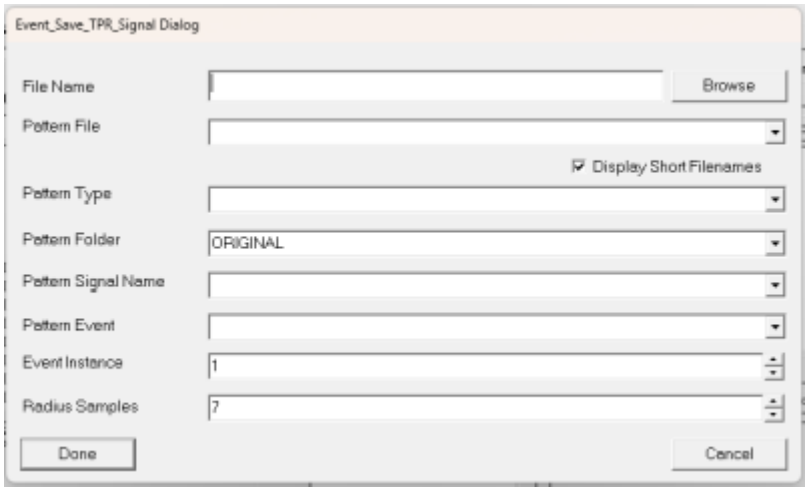
The following table shows the command parameters and descriptions:

Parameter	Description
/FILE_NAME=	The name of the `.tpr` file to be created (e.g., `HeelStrikePattern.tpr`).
/PATTERN_FILE=	(Optional) Used internally to chain patterns — leave blank when saving a new pattern.
/SIGNAL_TYPES=	Type of signal (e.g., `ANALOG`, `LINK_MODEL_BASED`, or `TARGET`).
/SIGNAL_FOLDER=	Folder containing the signal data (`FILTERED`, `ORIGINAL`, etc.).
/SIGNAL_NAMES=	Name of the signal to extract the pattern from (e.g., `Right_Ankle_Accel`).

/PATTERN_EVENT_NAME=	Name of the event at the center of the pattern (e.g., `EMG_Onset`, `LHS`).
/PATTERN_EVENT_INSTANCE=	Which instance of the event to use (1 = first, 2 = second, etc.).
/TPR_RADIUS=	Number of frames before and after the event to include. A value of 10 creates a 21-frame pattern.

Dialog

The command can be edited in a text editor or in a dialog form. To edit in the dialog pop up form either click on the **Edit** button in the pipeline workshop or double-click on the pipeline command. The dialog is shown below.



Examples

Simple example

Showing functionality of the command, using a diagram possibly to show output.

Complex example

Combine with other commands and show step-by-step process for frequent use case

Notes

- Important considerations (anything included in the page before the reformat)

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Last update: **2025/04/25 19:31**