

MovAlyzeR in combination with a normal digitizer tablet represents the world's most cost-effective and most accurate human 2D movement analysis system.

For research and application in:

Human movement research
Psychology
Psychiatry
Neurology
Movement Disorders
Motor learning
Visuomotor control
Physiotherapy
Occupational therapy
Remedial teaching
Child education
Child development
Forensics
Computer science
Artificial Intelligence
Human-Computer Interaction

M **MovAlyzeR** complete handwriting and mouse movement.

S **ScriptAlyzeR** basic handwriting and mouse movement.

R **MovAlyzeRx** patient centered interface for data collection

G **GripAlyzeR** bimanual grip-force coordination



Digitizers we deliver:

BAMBOO™

WACOM intuos
Cintiq

Cover: Microscopic Intersecting lines.

Photo by: John P. Conley

NeuroScript

www.NeuroScriptSoftware.com

M **ovAlyzeR**®

**Handwriting
Movement
Analysis Software**

NeuroScript

1225 E Broadway Road, Ste 100
Tempe, Arizona 85282, USA

Toll Free : 1.866.638.2800

Phone : +1.480.350.9200

Fax : +1.480.350.9199

E-mail: nsinfo@neuroscript.net

www.neuroscript.net

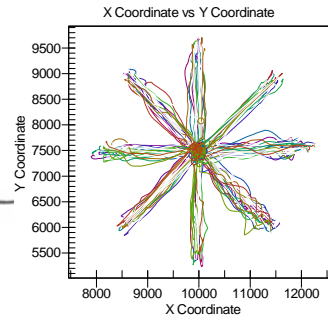
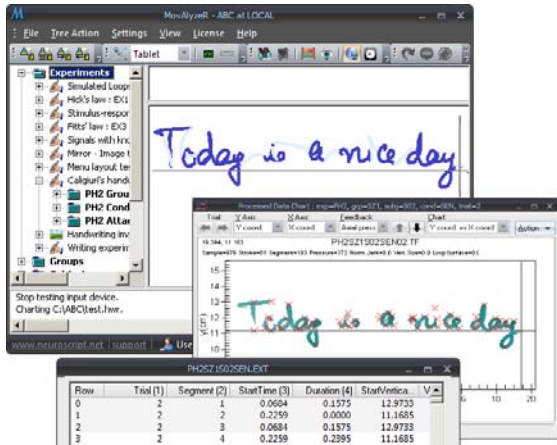


*Measure
Motor Skills
Today!*

Michael Benedict

Forensic Signature Verification

NeuroScript MovAlyzeR



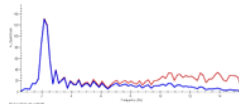
Goal directed movements of Parkinson's disease patients

From Recording to Research Journal in 7 Steps

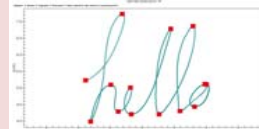
1. Customize test with audiovisual animated stimuli and record with digitizer tablet or mouse



2. Filter data to remove noise through spectral analysis



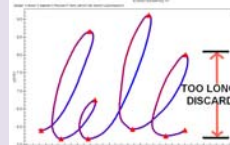
3. Segment writing sample into strokes



Segment (2)	Start Time (3)	Duration (4)	Start/Verific.	Verific/End	PenUp
1	0.2000	0.0150	5.6970	2.1240	4.2
2	1.0600	0.7600	7.8126	-2.6900	6.2
3	1.8376	0.0482	5.3336	4.0092	7.4
4	2.7020	0.5277	9.2700	3.2779	8.4
5	3.2334	0.6169	11.0906	-0.3547	9.4
6	3.8503	0.6329	10.9450	3.6100	10.4
7	4.4822	0.7135	14.2987	-3.5186	11.4
8	5.2027	0.4403	10.7600	0.0420	12.4

4. Kinematic feature extraction per stroke

5. Consistency check of extracted parameters



Exclude strokes using threshold relative pen down duration
 with pen lifts OR Threshold
 without pen lifts
 Threshold: 0
 Collapse Data
 Collapse across all strokes OR
 Collapse across gsd and even strokes
 AND/OR
 Collapse across trials
 Use: Averages Medians

6. Summarization and statistical analysis of results

7. Write and submit your paper!

Record handwriting or mouse movements, process the data and instantly obtain graphical and numerical summary results.

Overview

The MovAlyzeR Suite offers a comprehensive solution to quickly and accurately perform handwriting or mouse movement tests or process handwriting images.

Automatic consistency checking after each trial enables re-recording on the spot and ensures objective analysis in 1-person research.

Immediately after each test all results will be available.

Recording of long passages can be made in MovAlyzeR. Individual words can be automatically extracted from such recordings and then various tests can be made.

Features

International patent-pending

Highly customizable

Graphical stimulus editor for interactive visual stimuli

Auditory stimuli

Trial randomization rules

Word extraction from long paragraphs

Handwriting image processing

Data-centered or patient-centered user interfaces

Multi-site, multi-user database

Test signal generation

Verify processing accuracy

Tablet accuracy test

To Do:

Visit www.neuroscript.net

Download and install MovAlyzeR

Full featured trial version.

Test your first participant **today**.