

Rjean Plamondon

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

160
papers

6,512
citations

37
h-index

78
g-index

170
ext. papers

7,533
ext. citations

4.1
avg, IF

6.07
L-index

#	Paper	IF	Citations
160	Online and off-line handwriting recognition: a comprehensive survey. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2000 , 22, 63-84	13.3	1456
159	Automatic signature verification and writer identification [the state of the art. <i>Pattern Recognition</i> , 1989 , 22, 107-131	7.7	669
158	Speed/accuracy trade-offs in target-directed movements. <i>Behavioral and Brain Sciences</i> , 1997 , 20, 279-303; discussion 303-49	0.9	415
157	AUTOMATIC SIGNATURE VERIFICATION: THE STATE OF THE ART [1989]1993. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1994 , 08, 643-660	1.1	241
156	A kinematic theory of rapid human movements. Part I. Movement representation and generation. <i>Biological Cybernetics</i> , 1995 , 72, 295-307	2.8	229
155	UNIPEN project of on-line data exchange and recognizer benchmarks		168
154	A kinematic theory of rapid human movements. Part II. Movement time and control. <i>Biological Cybernetics</i> , 1995 , 72, 309-20	2.8	134
153	Modelling velocity profiles of rapid movements: a comparative study. <i>Biological Cybernetics</i> , 1993 , 69, 119-28	2.8	117
152	Development of a Sigma-Lognormal representation for on-line signatures. <i>Pattern Recognition</i> , 2009 , 42, 3324-3337	7.7	111
151	. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1989 , 19, 1060-1072		100
150	Optimal Movement Selection. <i>Psychological Science</i> , 1991 , 2, 86-91	7.9	98
149	On the stability analysis of delayed neural networks systems. <i>Neural Networks</i> , 2001 , 14, 1181-8	9.1	88
148	Training hidden Markov models with multiple observations-a combinatorial method. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2000 , 22, 371-377	13.3	88
147	A Perspective Analysis of Handwritten Signature Technology. <i>ACM Computing Surveys</i> , 2019 , 51, 1-39	13.4	87
146	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1990 , 12, 710-717	13.3	84
145	The generation of handwriting with delta-lognormal synergies. <i>Biological Cybernetics</i> , 1998 , 78, 119-132	2.8	83
144	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1993 , 15, 953-957	13.3	78

143	Synthetic on-line signature generation. Part I: Methodology and algorithms. <i>Pattern Recognition</i> , 2012 , 45, 2610-2621	7.7	75
142	A multi-level representation paradigm for handwriting stroke generation. <i>Human Movement Science</i> , 2006 , 25, 586-607	2.4	70
141	Stability analysis of bidirectional associative memory networks with time delays. <i>IEEE Transactions on Neural Networks</i> , 2003 , 14, 1560-5		69
140	A kinematic theory of rapid human movements: Part III. Kinetic outcomes. <i>Biological Cybernetics</i> , 1998 , 78, 133-45	2.8	66
139	. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1993 , 23, 400-413		60
138	Dynamic Signature Verification System Based on One Real Signature. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 228-239	10.2	59
137	A kinematic theory of rapid human movement. Part IV: a formal mathematical proof and new insights. <i>Biological Cybernetics</i> , 2003 , 89, 126-38	2.8	58
136	On-line recognition of handprinted characters: Survey and beta tests. <i>Pattern Recognition</i> , 1990 , 23, 1031-1044	7.7	55
135	Recent developments in the study of rapid human movements with the kinematic theory: Applications to handwriting and signature synthesis. <i>Pattern Recognition Letters</i> , 2014 , 35, 225-235	4.7	54
134	The relation between pen force and pen-point kinematics in handwriting. <i>Biological Cybernetics</i> , 1990 , 63, 277-289	2.8	54
133	The segmentation of cursive handwriting: an approach based on off-line recovery of the motor-temporal information. <i>IEEE Transactions on Image Processing</i> , 1999 , 8, 80-91	8.7	51
132	Normalizing and restoring on-line handwriting. <i>Pattern Recognition</i> , 1993 , 26, 419-431	7.7	51
131	Looking at handwriting generation from a velocity control perspective. <i>Acta Psychologica</i> , 1993 , 82, 89-107	10.7	51
130	Studying the variability of handwriting patterns using the Kinematic Theory. <i>Human Movement Science</i> , 2009 , 28, 588-601	2.4	46
129	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1995 , 17, 702-712	13.3	45
128	Synthetic on-line signature generation. Part II: Experimental validation. <i>Pattern Recognition</i> , 2012 , 45, 2622-2632	7.7	44
127	The lognormal handwriter: learning, performing, and declining. <i>Frontiers in Psychology</i> , 2013 , 4, 945	3.4	41
126	A new algorithm and system for the characterization of handwriting strokes with delta-lognormal parameters. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009 , 31, 2060-72	13.3	40

125	A kinematic theory of rapid human movements: Part I. Movement representation and generation 1995 , 72, 295		38
124	Signature Verification Based on the Kinematic Theory of Rapid Human Movements. <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 169-180	4-1	37
123	Handwriting Biometrics: Applications and Future Trends in e-Security and e-Health. <i>Cognitive Computation</i> , 2020 , 12, 940-953	4-4	34
122	THE DESIGN OF AN ON-LINE SIGNATURE VERIFICATION SYSTEM: FROM THEORY TO PRACTICE. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1994 , 08, 795-811	1-1	33
121	Robust score normalization for DTW-based on-line signature verification 2015 ,		32
120	Handwritten Signature Verification: New Advancements and Open Issues 2012 ,		32
119	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1989 , 38, 1132-1138	5-2	31
118	Segmentation and reconstruction of on-line handwritten scripts. <i>Pattern Recognition</i> , 1998 , 31, 675-684	7-7	28
117	A 12-Week Cycling Training Regimen Improves Gait and Executive Functions Concomitantly in People with Parkinson's Disease. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 690	3-3	27
116	Personal digital bodyguards for e-security, e-learning and e-health: A prospective survey. <i>Pattern Recognition</i> , 2018 , 81, 633-659	7-7	24
115	Kinematic characteristics of bidirectional delta-lognormal primitives in young and older subjects. <i>Human Movement Science</i> , 2011 , 30, 1-17	2-4	24
114	Extraction of signatures from check background based on a filiformity criterion. <i>IEEE Transactions on Image Processing</i> , 1998 , 7, 1425-38	8-7	24
113	Enhanced on-line signature verification based on skilled forgery detection using Sigma-LogNormal Features 2015 ,		23
112	Strokes against stroke—strokes for strides. <i>Pattern Recognition</i> , 2014 , 47, 929-944	7-7	23
111	Impact of the principal stroke risk factors on human movements. <i>Human Movement Science</i> , 2011 , 30, 792-806	2-4	23
110	The 2/3 power law: when and why?. <i>Acta Psychologica</i> , 1998 , 100, 85-96	1-7	23
109	Using the framework of the kinematic theory for the definition of a movement primitive. <i>Motor Control</i> , 2004 , 8, 547-57	1-3	23
108	Off-line Identification With Handwritten Signature Images: Survey and Perspectives 1992 , 219-234		23

107	Online Signature Verification 2014 , 917-947		20
106	Gestures [Go Go. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2016 , 7, 1-29	8	20
105	Towards an automatic on-line signature verifier using only one reference per signer 2015 ,		19
104	Design of a neuromuscular disorders diagnostic system using human movement analysis 2012 ,		19
103	Learning handwriting with pen-based systems: computational issues. <i>Pattern Recognition</i> , 2002 , 35, 1049-1057	7.1	19
102	Online Handwriting Recognition 1999 ,		19
101	Combining sigma-lognormal modeling and classical features for analyzing graphomotor performances in kindergarten children. <i>Human Movement Science</i> , 2015 , 43, 183-200	2.4	18
100	The limit profile of a rapid movement velocity. <i>Human Movement Science</i> , 2010 , 29, 48-61	2.4	18
99	AUTOMATIC SIGNATURE VERIFICATION: THE STATE OF THE ART 1989-1993. <i>Series in Machine Perception and Artificial Intelligence</i> , 1994 , 3-20	0.3	18
98	iDeLog: Iterative Dual Spatial and Kinematic Extraction of Sigma-Lognormal Parameters. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 114-125	13.3	18
97	On the Origin of Asymmetric Bell-Shaped Velocity Profiles in Rapid-Aimed Movements 1991 , 283-295		17
96	Strokes of insight: User intent detection and kinematic compression of mouse cursor trails. <i>Information Processing and Management</i> , 2016 , 52, 989-1003	6.3	17
95	Time-dependence between upper arm muscles activity during rapid movements: observation of the proportional effects predicted by the kinematic theory. <i>Human Movement Science</i> , 2013 , 32, 1026-39	2.4	16
94	A sigma-lognormal model-based approach to generating large synthetic online handwriting sample databases. <i>International Journal on Document Analysis and Recognition</i> , 2017 , 20, 155-171	3.8	15
93	A new method for the analysis of simple and complex planar rapid movements. <i>Journal of Neuroscience Methods</i> , 1998 , 82, 35-45	3	15
92	. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1991 , 21, 90-101		15
91	Characterization of bi-directional movement primitives and their agonist-antagonist synergy with the delta-lognormal model. <i>Motor Control</i> , 2010 , 14, 1-25	1.3	14
90	Capturing the Cranio-Caudal Signature of a Turn with Inertial Measurement Systems: Methods, Parameters Robustness and Reliability. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017 , 5, 51	5.8	13

89	Linking brain stroke risk factors to human movement features for the development of preventive tools. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 150	5.3	13
88	Extraction of delta-lognormal parameters from handwriting strokes. <i>Frontiers of Computer Science</i> , 2007 , 1, 106-113		13
87	Handwriting processing and recognition. <i>Pattern Recognition</i> , 1993 , 26, 379	7.7	12
86	Dependence of peripheral and central parameters describing handwriting generation on movement direction. <i>Human Movement Science</i> , 1991 , 10, 193-221	2.4	12
85	DYNAMIC APPROACHES TO HANDWRITTEN SIGNATURE VERIFICATION 1990 , 21-47		12
84	A neural model for generating and learning a rapid movement sequence. <i>Biological Cybernetics</i> , 1996 , 74, 117-30	2.8	11
83	Modelization of Handwriting: A System Approach. <i>Advances in Psychology</i> , 1986 , 37, 169-183		11
82	Improving sigma-lognormal parameter extraction 2015 ,		10
81	Gesture Input for Users with Motor Impairments on Touchscreens 2018 ,		10
80	Using kinematic analysis of movement to predict the time occurrence of an evoked potential associated with a motor command. <i>European Journal of Neuroscience</i> , 2013 , 37, 173-80	3.5	10
79	Writing Generation Model for Health Care Neuromuscular System Investigation. <i>Lecture Notes in Computer Science</i> , 2014 , 137-148	0.9	10
78	KeyTime 2018 ,		10
77	Calligraphic Stylisation Learning with a Physiologically Plausible Model of Movement and Recurrent Neural Networks 2017 ,		9
76	Neuromuscular Representation and Synthetic Generation of Handwritten Whiteboard Notes 2014 ,		9
75	A globally optimal estimator for the delta-lognormal modeling of fast reaching movements. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 1428-42		9
74	Can computer mice be used as low-cost devices for the acquisition of planar human movement velocity signals?. <i>Behavior Research Methods</i> , 2011 , 43, 229-38	6.1	9
73	Programmable high-amplitude balanced stimulus current-source for implantable microstimulators		9
72	A HANDWRITING MODEL BASED ON DIFFERENTIAL GEOMETRY 1989 , 179-192		9

71	Motor program coding representation from a handwriting generator model: The production of line responses. <i>Biological Cybernetics</i> , 1990 , 63, 443-451	2.8	9
70	Tip potential of open-tip glass microelectrodes: theoretical and experimental studies. <i>Canadian Journal of Physiology and Pharmacology</i> , 1983 , 61, 857-69	2.4	9
69	Low resistance and tip potential of glass microelectrode: improvement through a new filling method. <i>Vision Research</i> , 1976 , 16, 1355-7	2.1	9
68	An oscillatory criterion for a time delayed neural ring network model. <i>Neural Networks</i> , 2012 , 29-30, 70-9	1.1	8
67	Kinematic analysis of fast pen strokes in children with ADHD. <i>Applied Neuropsychology: Child</i> , 2020 , 9, 125-140	1.4	8
66	The Kinematic Theory Produces Human-Like Stroke Gestures. <i>Interacting With Computers</i> , 2017 ,	1.6	7
65	Kinematic Modelling of Diphthong Articulation. <i>Smart Innovation, Systems and Technologies</i> , 2016 , 53-60	0.5	7
64	Training of On-Line Handwriting Text Recognizers with Synthetic Text Generated Using the Kinematic Theory of Rapid Human Movements 2014 ,		7
63	Quality Analysis of Dynamic Signature Based on the Sigma-Lognormal Model 2011 ,		7
62	A genetic algorithm for the resolution of superimposed motor unit action potentials. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 2163-71	5	7
61	WHAT TYPES OF SCRIPTS CAN BE USED FOR PERSONAL IDENTITY VERIFICATION? 1989 , 77-90		7
60	A Hausdorff Heuristic for Efficient Computation of Graph Edit Distance. <i>Lecture Notes in Computer Science</i> , 2014 , 83-92	0.9	7
59	A 12-Week Cycling Training Regimen Improves Upper Limb Functions in People With Parkinson's Disease. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 351	3.3	7
58	Cranio-Caudal Kinematic Turn Signature Assessed with Inertial Systems As a Marker of Mobility Deficits in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2018 , 9, 22	4.1	6
57	Agonistic and antagonistic interaction in speed/accuracy tradeoff: a delta-lognormal perspective. <i>Human Movement Science</i> , 2013 , 32, 1040-55	2.4	6
56	Prototype-Based Methodology for the Statistical Analysis of Local Features in Stereotypical Handwriting Tasks 2010 ,		6
55	Human identification of letters in mixed-script handwriting: an upper bound on recognition rates. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1998 , 28, 78-81		6
54	2008 ,		6

53	The Generation of Oriental Characters. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1998 , 12, 31-44	1.1	6
52	On the influence of diffusion, double layer, and glass conduction on the electrical resistance of open tip glass microelectrodes. <i>IEEE Transactions on Biomedical Engineering</i> , 1980 , 27, 260-70	5	6
51	Signal Processing for the Parameter Extraction of the Delta Lognormal Model (I) 1995 , 217-232		6
50	Forgetting of unused classes in missing data environment using automatically generated data: Application to on-line handwritten gesture command recognition. <i>Pattern Recognition</i> , 2017 , 72, 355-367	7.7	5
49	IDENTITY VERIFICATION FROM AUTOMATIC PROCESSING OF SIGNATURES: BIBLIOGRAPHY 1990 , 65-85		5
48	A Biometric Attack Case Based on Signature Synthesis 2018 ,		5
47	Central and Peripheral Shoulder Fatigue Pre-screening Using the Sigma-Lognormal Model: A Proof of Concept. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 171	3.3	4
46	On the Design of Personal Digital Bodyguards: Impact of Hardware Resolution on Handwriting Analysis 2016 ,		4
45	A sigma-lognormal model for character level CAPTCHA generation 2015 ,		4
44	On some necessary and sufficient conditions for a recurrent neural network model with time delays to generate oscillations. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 1197-205		4
43	Permanent oscillations in a 3-node recurrent neural network model. <i>Neurocomputing</i> , 2010 , 74, 274-283	5.4	4
42	A software assistant for the design and analysis of neuromuscular tests 2007 ,		4
41	DETERMINISTIC AND EVOLUTIONARY EXTRACTION OF DELTA-LOGNORMAL PARAMETERS: PERFORMANCE COMPARISON. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2007 , 21, 21-41	1.1	4
40	Integration of lexical and syntactical knowledge in a handwriting-recognition system. <i>Machine Vision and Applications</i> , 1995 , 8, 249-259	2.8	4
39	Open tip glass microelectrodes: conduction through the wall at the tip. <i>IEEE Transactions on Biomedical Engineering</i> , 1987 , 34, 56-61	5	4
38	DESIGNING AN AUTOMATIC SIGNATURE VERIFIER: PROBLEM DEFINITION AND SYSTEM DESCRIPTION 1990 , 3-20		4
37	Omnis Prædictio: Estimating the full spectrum of human performance with stroke gestures. <i>International Journal of Human Computer Studies</i> , 2020 , 142, 102466	4.6	3
36	Characteristics of bi-directional unimanual and bimanual drawing movements: The application of the Delta-Lognormal models and Sigma-Lognormal model. <i>Pattern Recognition Letters</i> , 2019 , 121, 97-103	4.7	3

35	Generating Off-line and On-line Forgeries from On-line Genuine Signatures 2019 ,		3
34	A Sigma-Lognormal Model for Handwritten Text CAPTCHA Generation 2014 ,		3
33	Variations of handwritten signatures with time: A sigma-lognormal analysis 2013 ,		3
32	Analyzing Oscillations for an \mathcal{N} -node Recurrent Neural Networks Model With Time Delays and General Activation Functions. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011 , 58, 1877-1887	3.0	3
31	The kinematic theory: A new window to study and analyze simple and complex human movements. <i>Behavioral and Brain Sciences</i> , 1997 , 20, 325-343	0.9	3
30	A STRUCTURAL APPROACH TO ON-LINE CHARACTER RECOGNITION: SYSTEM DESIGN AND APPLICATIONS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1991 , 05, 311-335	1.1	3
29	Modeling 3D Movements with the Kinematic Theory of Rapid Human Movements. <i>Series in Machine Perception and Artificial Intelligence</i> , 2020 , 327-342	0.3	3
28	The Lognormality Principle: A Personalized Survey. <i>Series in Machine Perception and Artificial Intelligence</i> , 2020 , 1-39	0.3	3
27	A Model-Based Dynamic Signature Verification System 1994 , 417-434		3
26	General relativity: An erfc metric. <i>Results in Physics</i> , 2018 , 9, 456-462	3.7	2
25	Invited Lecture I: Strokes against Stroke - Stroke For Strides 2012 ,		2
24	Kinematical Analysis of Synthetic Dynamic Signatures Using the Sigma-Lognormal Model 2010 ,		2
23	THE GENERATION OF VELOCITY PROFILES WITH AN ARTIFICIAL SIMULATOR. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2004 , 18, 1207-1219	1.1	2
22	. <i>Pattern Recognition</i> , 2002 , 35, 981-982	7.7	2
21	A comparative study of two velocity profile models for rapid stroke analysis		2
20	Schematic coding on an IBM-PC. <i>Journal of Microcomputer Applications</i> , 1987 , 10, 91-100		2
19	Studies on electroosmotic effects in glass microelectrodes--improvement of microelectrode selection. <i>IEEE Transactions on Biomedical Engineering</i> , 1984 , 31, 512-9	5	2
18	An Interactive Tablet-based System to Run Neuromuscular Tests. <i>Series in Machine Perception and Artificial Intelligence</i> , 2020 , 269-288	0.3	2

17	Analysing the Evolution of Children's Neuromotor System Lognormality after Mild Traumatic Brain Injury. <i>Series in Machine Perception and Artificial Intelligence</i> , 2020 , 143-160	0.3	2
16	The Lognormality Principle and its Applications in e-Security, e-Learning and e-Health. <i>Series in Machine Perception and Artificial Intelligence</i> , 2020 ,	0.3	2
15	Solar system anomalies: Revisiting Hubble's law. <i>Physics Essays</i> , 2017 , 30, 404-412	1.1	2
14	Stability of Dynamic Signatures: From the Representation to the Generation Domain. <i>Lecture Notes in Computer Science</i> , 2013 , 122-130	0.9	2
13	Application of the Lognormal Model to the Vocal Tract Movement to Detect Neurological Diseases in Voice. <i>Smart Innovation, Systems and Technologies</i> , 2016 , 25-35	0.5	2
12	Effect of variability on letters generation with the vectorial delta-lognormal model. <i>Lecture Notes in Computer Science</i> , 1997 , 74-83	0.9	2
11	Guest Editorial Special Issue on Drawing and Handwriting Processing for User-Centered Systems. <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 165-168	4.1	1
10	A self-organizing neural network for learning and generating sequences of target-directed movements in the context of a delta-lognormal synergy		1
9	Study of several parameters for the detection of amyotrophic lateral sclerosis from articulatory movement. <i>Loquens</i> , 2017 , 4, 038	0.2	1
8	Periodic oscillatory behavior on a four-node neural network model with distributed delay. <i>International Journal of Machine Learning and Cybernetics</i> , 2016 , 7, 185-191	3.8	0
7	Reliability of the kinematic theory parameters during handwriting tasks on a vertical setup. <i>Biomedical Signal Processing and Control</i> , 2022 , 71, 103157	4.9	0
6	Detection of Control Points for Warping Map Images. <i>Intelligent Automation and Soft Computing</i> , 2001 , 7, 205-217	2.6	
5	CASE tool for microprocessing. <i>Microprocessors and Microsystems</i> , 1989 , 13, 637-643	2.4	
4	Power spectrum density analysis of electrical noise in glass microelectrodes. <i>IEEE Transactions on Biomedical Engineering</i> , 1984 , 31, 428-34	5	
3	What Does the Central Limit Theorem Have to Say About General Relativity? 2021 , 503-511		
2	A kinematic theory of rapid human movements. <i>Biological Cybernetics</i> , 1995 , 72, 309-320	2.8	
1	A neural model for generating and learning a rapid movement sequence. <i>Biological Cybernetics</i> , 1996 , 74, 117-130	2.8	