Xingyuan Wang

List of Publications by Year in Descending Order

152 papers	3,970 citations	32 h-index	58 g-index
160 ext. papers	5,405 ext. citations	3.2 avg, IF	7.04 L-index

#	Paper	IF	Citations
152	A New Full Chaos Coupled Mapping Lattice and Its Application in Privacy Image Encryption. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2022**, 1-11	3.9	12
151	A selective image encryption algorithm based on a chaotic model using modular sine arithmetic. *Optik*, **2022**, 258, 168955	2.5	1
150	A Dynamic Image Encryption Algorithm Based on Improved Ant Colony Walking Path Thought. *Sensing and Imaging*, **2022**, 23, 1	1.4	0
149	Spiral-Transform-Based Fractal Sorting Matrix for Chaotic Image Encryption. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2022**, 1-8	3.9	1
148	Concealed Attack for Robust Watermarking Based on Generative Model and Perceptual Loss. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 1-1	6.4	7
147	A novel block-based image encryption scheme using a new Sine powered chaotic map generator. *Multimedia Tools and Applications*, **2021**, 80, 21955-21978	2.5	6
146	Color image encryption scheme based on the combination of the fisher-yates scrambling algorithm and chaos theory. *Multimedia Tools and Applications*, **2021**, 80, 24737	2.5	2
145	Medical image security authentication method based on wavelet reconstruction and fractal dimension. *International Journal of Distributed Sensor Networks*, **2021**, 17, 155014772110141	1.7	1
144	Constructing chaos-based hash function via parallel impulse perturbation. *Soft Computing*, **2021**, 25, 11077-11086	3.5	5
143	High-sensitivity synchronous image encryption based on improved one-dimensional compound sine map. *IET Image Processing*, **2021**, 15, 2247	1.7	0
142	An adjustable visual image cryptosystem based on 6D hyperchaotic system and compressive sensing. *Nonlinear Dynamics*, **2021**, 104, 4543	5	11
141	Image encryption algorithm with matrix semi-tensor product. *Nonlinear Dynamics*, **2021**, 105, 859-876	5	9
140	A New Chaotic Image Encryption Algorithm Based on L-Shaped Method of Dynamic Block. *Sensing and Imaging*, **2021**, 22, 1	1.4	5
139	A new one-dimensional cosine polynomial chaotic map and its use in image encryption. *Visual Computer*, **2021**, 37, 541-551	2.3	23
138	Image encryption using shuffled Arnold map and multiple values manipulations. *Visual Computer*, **2021**, 37, 189-200	2.3	14
137	Fast image encryption algorithm with high security level using the Bban chaotic map. *Journal of Real-Time Image Processing*, **2021**, 18, 85-98	1.9	28
136	A new one-dimensional chaotic map and its application in a novel permutation-less image encryption scheme. *Visual Computer*, **2021**, 37, 1757-1768	2.3	11

135	Fractal sorting matrix and its application on chaotic image encryption. *Information Sciences*, **2021**, 547, 1154-1169	7.7	111
134	A chaotic image encryption algorithm based on a counting system and the semi-tensor product. *Multimedia Tools and Applications*, **2021**, 80, 10301-10322	2.5	9
133	Image encryption algorithm based on LDCML and DNA coding sequence. *Multimedia Tools and Applications*, **2021**, 80, 591-614	2.5	10
132	Double Parameters Fractal Sorting Matrix and Its Application in Image Encryption. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 1-1	6.4	18
131	A new image encryption algorithm based on ladder transformation and DNA coding. *Multimedia Tools and Applications*, **2021**, 80, 13339-13365	2.5	1
130	A Novel Double-Image Encryption Algorithm Based on Rossler Hyperchaotic System and Compressive Sensing. *IEEE Access*, **2021**, 9, 41704-41716	3.5	15
129	High Precision Error Prediction Algorithm Based on Ridge Regression Predictor for Reversible Data Hiding. *IEEE Signal Processing Letters*, **2021**, 28, 1125-1129	3.2	17
128	Chaotic Image Encryption Algorithm Based on Zigzag Transform With Bidirectional Crossover From Random Position. *IEEE Access*, **2021**, 9, 105627-105640	3.5	6
127	Chaotic image encryption algorithm based on arithmetic sequence scrambling model and DNA encoding operation. *Multimedia Tools and Applications*, **2021**, 80, 10949-10983	2.5	11
126	A Jungle Community Detection Algorithm Based on New Weighted Similarity. *Arabian Journal for Science and Engineering*, **2021**, 46, 8493-8507	2.5	1
125	Color image encryption based on cross 2D hyperchaotic map using combined cycle shift scrambling and selecting diffusion. *Nonlinear Dynamics*, **2021**, 105, 1859-1876	5	6
124	A privacy image encryption algorithm based on piecewise coupled map lattice with multi dynamic coupling coefficient. *Information Sciences*, **2021**, 569, 217-240	7.7	32
123	Application of chaotic Josephus scrambling and RNA computing in image encryption. *Multimedia Tools and Applications*, **2021**, 80, 23337-23358	2.5	4
122	Bit-level image encryption algorithm based on BP neural network and gray code. *Multimedia Tools and Applications*, **2021**, 80, 11655-11670	2.5	5
121	Image encryption algorithm based on the matrix semi-tensor product with a compound secret key produced by a Boolean network. *Information Sciences*, **2020**, 539, 195-214	7.7	132
120	A new image encryption scheme based on coupling map lattices with mixed multi-chaos. *Scientific Reports*, **2020**, 10, 9784	4.9	24
119	Fast image encryption algorithm based on parallel permutation-and-diffusion strategy. *Multimedia Tools and Applications*, **2020**, 79, 19005-19024	2.5	8
118	Spatiotemporal chaos in cross coupled map lattice with dynamic coupling coefficient and its application in bit-level color image encryption. *Chaos, Solitons and Fractals*, **2020**, 139, 110028	9.3	8

117	A novel one-dimensional sine powered chaotic map and its application in a new image encryption scheme. *Information Sciences*, **2020**, 520, 46-62	7.7	70
116	Robust modified function projective lag synchronization between two nonlinear complex networks with different-dimensional nodes and disturbances. *ISA Transactions*, **2020**, 101, 42-49	5.5	6
115	Robust Synchronization for Discrete-Time Coupled Markovian Jumping Neural Networks With Mixed Time-Delays. *IEEE Access*, **2020**, 8, 16099-16110	3.5	2
114	Image Encryption Based on Hash Table Scrambling and DNA Substitution. *IEEE Access*, **2020**, 8, 68533-68547	3.5	12
113	A novel image encryption scheme of dynamic S-boxes and random blocks based on spatiotemporal chaotic system. *Optik*, **2020**, 217, 164884	2.5	20
112	An Audio Encryption Algorithm Based on DNA Coding and Chaotic System. *IEEE Access*, **2020**, 8, 9260-9270	3.5	12
111	A new chaotic circuit with multiple memristors and its application in image encryption. *Nonlinear Dynamics*, **2020**, 99, 1489-1506	5	32
110	An Efficient and Secure Image Encryption Algorithm Based on Non- Adjacent Coupled Maps. *IEEE Access*, **2020**, 8, 122104-122120	3.5	2
109	A novel image encryption algorithm based on fractional order 5D cellular neural network and Fisher-Yates scrambling. *PLoS ONE*, **2020**, 15, e0236015	3.7	8
108	Enhancing the kinetic complexity of 2-D digital coupled chaotic lattice. *Nonlinear Dynamics*, **2020**, 102, 2925-2943	5	2
107	Color image encryption based on chaotic compressed sensing and two-dimensional fractional Fourier transform. *Scientific Reports*, **2020**, 10, 18556	4.9	11
106	A pyramidal community detection algorithm based on a generalization of the clustering coefficient. *Journal of Ambient Intelligence and Humanized Computing*, **2020**, 12, 9111	3.7	4
105	A New Image Encryption Scheme Based on a Novel One-Dimensional Chaotic System. *IEEE Access*, **2020**, 8, 174463-174479	3.5	6
104	Hyperchaotic Behavior in the Novel Memristor-Based Symmetric Circuit System. *IEEE Access*, **2020**, 8, 151535-151545	3.5	6
103	A Novel Grayscale Image Steganography Scheme Based on Chaos Encryption and Generative Adversarial Networks. *IEEE Access*, **2020**, 8, 168166-168176	3.5	13
102	Chaotic Image Encryption Algorithm Based on Fractional Order Scrambling Wavelet Transform and 3D Cyclic Displacement Operation. *IEEE Access*, **2020**, 8, 208718-208736	3.5	1
101	DeepTrigger: A Watermarking Scheme of Deep Learning Models Based on Chaotic Automatic Data Annotation. *IEEE Access*, **2020**, 8, 213296-213305	3.5	4
100	A Dynamic Triple-Image Encryption Scheme Based on Chaos, S-Box and Image Compressing. *IEEE Access*, **2020**, 8, 210382-210399	3.5	8

99	Image encryption algorithm for synchronously updating Boolean networks based on matrix semi-tensor product theory. *Information Sciences*, **2020**, 507, 16-36	7.7	193
98	Time series prediction based on intuitionistic fuzzy cognitive map. *Soft Computing*, **2020**, 24, 6835-6850	3.5	14
97	Geometrically Invariant Color Medical Image Null-Watermarking Based on Precise Quaternion Polar Harmonic Fourier Moments. *IEEE Access*, **2019**, 7, 122544-122560	3.5	25
96	Image encryption scheme based on Chaos and DNA plane operations. *Multimedia Tools and Applications*, **2019**, 78, 26111-26128	2.5	17
95	New strategy for CBIR by combining low-level visual features with a colour descriptor. *IET Image Processing*, **2019**, 13, 1191-1200	1.7	8
94	New magnetic algorithm to detect community structure based on the magnets approach. *Modern Physics Letters B*, **2019**, 33, 1950166	1.6	3
93	Extreme multistability in a new hyperchaotic meminductive circuit and its circuit implementation. *European Physical Journal Plus*, **2019**, 134, 1	3.1	14
92	Multi-Layer Progressive Face Alignment by Integrating Global Match and Local Refinement. *Applied Sciences (Switzerland)*, **2019**, 9, 977	2.6	1
91	A novel method based on the pseudo-orbits to calculate the largest Lyapunov exponent from chaotic equations. *Chaos*, **2019**, 29, 033125	3.3	18
90	Fast image encryption algorithm based on parallel computing system. *Information Sciences*, **2019**, 486, 340-358	7.7	210
89	Color image encryption algorithm based on customized globally coupled map lattices. *Multimedia Tools and Applications*, **2019**, 78, 6191-6209	2.5	24
88	A Novel Chaotic Image Encryption Scheme Based on Hash Function and Cyclic Shift. *IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)*, **2019**, 36, 39-48	1.5	16
87	Chaotic image encryption algorithm based on pseudo-random bit sequence and DNA plane. *Modern Physics Letters B*, **2019**, 33, 1950263	1.6	19
86	A chaotic image encryption algorithm based on zigzag-like transform and DNA-like coding. *Multimedia Tools and Applications*, **2019**, 78, 34981-34997	2.5	7
85	Chaotic Image Encryption Algorithm Based on Bit-Combination Scrambling in Decimal System and Dynamic Diffusion. *IEEE Access*, **2019**, 7, 103662-103677	3.5	19
84	Fast encryption scheme for 3D models based on chaos system. *Multimedia Tools and Applications*, **2019**, 78, 33865-33884	2.5	6
83	A chaotic image encryption scheme based on cat map and MMT permutation. *Modern Physics Letters B*, **2019**, 33, 1950326	1.6	6
82	Detected text-based image retrieval approach for textual images. *IET Image Processing*, **2019**, 13, 515-521	1.7	18

81	Image encryption based on the combination of roulette wheel selection with linear congruence pixel transformation. *Multimedia Tools and Applications*, **2019**, 78, 10625-10647	2.5	5
80	A fast image encryption algorithm based on non-adjacent dynamically coupled map lattice model. *Nonlinear Dynamics*, **2019**, 95, 2797-2824	5	38
79	Synchronization in nonlinear complex networks with multiple time-varying delays via adaptive aperiodically intermittent control. *International Journal of Adaptive Control and Signal Processing*, **2019**, 33, 39-51	2.8	7
78	Finite-Time Synchronization for a Class of Fully Complex-Valued Networks With Coupling Delay. *IEEE Access*, **2018**, 6, 17923-17932	3.5	18
77	A chaotic color image encryption using integrated bit-level permutation. *Multimedia Tools and Applications*, **2018**, 77, 6883-6896	2.5	61
76	Synchronization of Uncertain Complex Networks with Time-Varying Node Delay and Multiple Time-Varying Coupling Delays. *Asian Journal of Control*, **2018**, 20, 186-195	1.7	12
75	A MaxMin ant colony algorithm for fractal dimension of complex networks. *International Journal of Computer Mathematics*, **2018**, 95, 1927-1936	1.2	4
74	A novel chaotic encryption scheme based on image segmentation and multiple diffusion models. *Optics and Laser Technology*, **2018**, 108, 558-573	4.2	37
73	A Novel Method for Constructing the S-Box Based on Spatiotemporal Chaotic Dynamics. *Applied Sciences (Switzerland)*, **2018**, 8, 2650	2.6	44
72	Exponential Synchronization of Nonlinear Systems with Delay via Aperiodically Intermittent Control **2018**,		1
71	Characteristic analysis of the fractional-order hyperchaotic memristive circuit based on the Wien bridge oscillator. *European Physical Journal Plus*, **2018**, 133, 1	3.1	13
70	Identifying the linear region based on machine learning to calculate the largest Lyapunov exponent from chaotic time series. *Chaos*, **2018**, 28, 123118	3.3	13
69	Aperiodically Intermittent Control for Synchronization on the Delayed Bipartite Networks With Non-Delay and Delay Couplings. *IEEE Access*, **2018**, 6, 50939-50949	3.5	5
68	A novel and effective image encryption algorithm based on chaos and DNA encoding. *Multimedia Tools and Applications*, **2017**, 76, 6229-6245	2.5	94
67	Synchronization of complex networks with time-varying inner coupling and outer coupling matrices. *Mathematical Methods in the Applied Sciences*, **2017**, 40, 4237-4245	2.3	7
66	A novel image encryption algorithm based on chaotic shuffling method. *Information Security Journal*, **2017**, 26, 7-16	1	20
65	Outer synchronization of complex networks with internal delay and coupling delay via aperiodically intermittent pinning control. *International Journal of Modern Physics C*, **2017**, 28, 1750108	1.1	10
64	Lossless chaotic color image cryptosystem based on DNA encryption and entropy. *Nonlinear Dynamics*, **2017**, 90, 855-875	5	72

63	A novel image encryption algorithm based on genetic recombination and hyper-chaotic systems. *Nonlinear Dynamics*, **2016**, 83, 333-346	5	106
62	An effective and fast image encryption algorithm based on Chaos and interweaving of ranks. *Nonlinear Dynamics*, **2016**, 84, 1595-1607	5	39
61	Image encryption scheme using chaos and simulated annealing algorithm. *Nonlinear Dynamics*, **2016**, 84, 1417-1429	5	58
60	A Hybrid Contourlet-Singular Value Decomposition Authentication Scheme Based on Chaos and Visual Cryptography for Medical Images. *Journal of Computational and Theoretical Nanoscience*, **2016**, 13, 8885-8895	0.3	2
59	A Memristor-Based Hyperchaotic Complex L□System and Its Adaptive Complex Generalized Synchronization. *Entropy*, **2016**, 18, 58	2.8	29
58	Complex Generalized Synchronization and Parameter Identification of Nonidentical Nonlinear Complex Systems. *PLoS ONE*, **2016**, 11, e0152099	3.7	20
57	Study of Robustness in Functionally Identical Coupled Networks against Cascading Failures. *PLoS ONE*, **2016**, 11, e0160545	3.7	10
56	Mutual synchronization behavior for chaotic systems via limited capacity communication channels. *Complexity*, **2016**, 21, 335-342	1.6	2
55	Model of epidemic control based on quarantine and message delivery. *Physica A: Statistical Mechanics and Its Applications*, **2016**, 458, 168-178	3.3	19
54	Novel chaotic behavior in the Muthuswamy□Chua system using Chebyshev Polynomials. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2015**, 28, 275-286	1	13
53	A Memristor-Based Complex Lorenz System and Its Modified Projective Synchronization. *Entropy*, **2015**, 17, 7628-7644	2.8	22
52	A novel image encryption scheme using chaos and Langton□ Ant cellular automaton. *Nonlinear Dynamics*, **2015**, 79, 2449-2456	5	33
51	Bounds for the fast□low Lorenz□tenflo system. *Nonlinear Dynamics*, **2015**, 79, 539-547	5	3
50	A fast image algorithm based on rows and columns switch. *Nonlinear Dynamics*, **2015**, 79, 1141-1149	5	78
49	Chaotic behavior in fractional-order memristor-based simplest chaotic circuit using fourth degree polynomial. *Nonlinear Dynamics*, **2014**, 77, 231-241	5	76
48	DYNAMIC CHARACTER ANALYSIS OF A LDR, MEMRISTOR-BASED CHAOTIC SYSTEM. *Journal of Circuits, Systems and Computers*, **2014**, 23, 1450085	0.9	15
47	A new image alternate encryption algorithm based on chaotic map. *Nonlinear Dynamics*, **2014**, 76, 1943-1950	5	102
46	Image encryption using genetic operators and intertwining logistic map. *Nonlinear Dynamics*, **2014**, 78, 2975-2984	5	36

45	A novel image encryption algorithm based on dynamic S-boxes constructed by chaos. *Nonlinear Dynamics*, **2014**, 75, 567-576	5	104
44	Controllability of asynchronous Boolean multiplex control networks. *Chaos*, **2014**, 24, 033108	3.3	15
43	Controllability of time-delayed Boolean multiplex control networks under asynchronous stochastic update. *Scientific Reports*, **2014**, 4, 7522	4.9	17
42	Epidemic spreading in time-varying community networks. *Chaos*, **2014**, 24, 023116	3.3	72
41	Chaos-based Color Image Encryption Using One-time Keys and Choquet Fuzzy Integral. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2014**, 15, 1-10	1.8	11
40	Backstepping generalized synchronization for neural network with delays based on tracing control method. *Neural Computing and Applications*, **2014**, 24, 775-778	4.8	5
39	A novel image encryption scheme based on Brownian motion and PWLCM chaotic system. *Nonlinear Dynamics*, **2014**, 75, 345-353	5	72
38	Adaptive cluster synchronization of directed complex networks with time delays. *PLoS ONE*, **2014**, 9, e95505	3.7	8
37	A novel image recovery method based on discrete cosine transform and matched blocks. *Nonlinear Dynamics*, **2013**, 73, 1945-1954	5	10
36	Novel hybrid fractal image encoding algorithm using standard deviation and DCT coefficients. *Nonlinear Dynamics*, **2013**, 73, 347-355	5	13
35	Cryptanalysis of a parallel sub-image encryption method with high-dimensional chaos. *Nonlinear Dynamics*, **2013**, 73, 795-800	5	54
34	Hyperdimensional generalized M sets in hypercomplex number space. *Nonlinear Dynamics*, **2013**, 73, 843-852	5	16
33	Chaos in the fractional-order complex Lorenz system and its synchronization. *Nonlinear Dynamics*, **2013**, 71, 241-257	5	102
32	Hybrid robust modified function projective lag synchronization in two different dimensional chaotic systems. *Nonlinear Dynamics*, **2013**, 73, 245-257	5	4
31	Synchronizability on complex networks via pinning control **2013**, 80, 593-606		4
30	FINITE-TIME CHAOS SYNCHRONIZATION OF A NEW HYPERCHAOTIC LORENZ SYSTEM. *International Journal of Modern Physics B*, **2013**, 27, 1350033	1.1	7
29	CHAOS GENERATED FROM THE FRACTIONAL-ORDER COMPLEX CHEN SYSTEM AND ITS APPLICATION TO DIGITAL SECURE COMMUNICATION. *International Journal of Modern Physics C*, **2013**, 24, 1350025	1.1	50
28	Fuzzy neural adaptive tracking control of unknown chaotic systems with input saturation. *Nonlinear Dynamics*, **2012**, 67, 2889-2897	5	51

27	An image blocks encryption algorithm based on spatiotemporal chaos. *Nonlinear Dynamics*, **2012**, 67, 365-371	5	55
26	A bit-level image encryption algorithm based on spatiotemporal chaotic system and self-adaptive. *Optics Communications*, **2012**, 285, 4048-4054	2	84
25	A universal projective synchronization of general autonomous chaotic system **2012**, 79, 1375-1383		
24	Modified projective synchronization of fractional-order chaotic systems via active sliding mode control. *Nonlinear Dynamics*, **2012**, 69, 511-517	5	110
23	Quasi-sine Fibonacci M set with perturbation. *Nonlinear Dynamics*, **2012**, 69, 1765-1779	5	9
22	Image encryption using DNA complementary rule and chaotic maps. *Applied Soft Computing Journal* , **2012**, 12, 1457-1466	7.5	421
21	PROJECTIVE SYNCHRONIZATION OF DIFFERENT CHAOTIC SYSTEMS WITH NONLINEARITY INPUTS. *International Journal of Modern Physics B*, **2012**, 26, 1250059	1.1	4
20	THE SYNCHRONIZATION FOR AUTONOMOUS CHAOTIC SYSTEMS WITH DISTURBANCE OF PARAMETER. *International Journal of Modern Physics B*, **2012**, 26, 1250058	1.1	
19	AN IMPROVED EDGE-DIRECTED IMAGE INTERPOLATION ALGORITHM. *International Journal of Image and Graphics*, **2012**, 12, 1250023	0.5	2
18	GENERALIZED (LAG, ANTICIPATED AND COMPLETE) PROJECTIVE SYNCHRONIZATION IN TWO NONIDENTICAL CHAOTIC SYSTEMS WITH UNKNOWN PARAMETERS. *International Journal of Modern Physics B*, **2012**, 26, 1250121	1.1	
17	Chaotic encryption algorithm based on alternant of stream cipher and block cipher. *Nonlinear Dynamics*, **2011**, 63, 587-597	5	66
16	Chaos synchronization for a class of nonequivalent systems with restrictive inputs via time-varying sliding mode. *Nonlinear Dynamics*, **2011**, 66, 89-97	5	9
15	TRACKING CONTROL AND THE BACKSTEPPING DESIGN OF SYNCHRONIZATION CONTROLLER FOR CHEN SYSTEM. *International Journal of Modern Physics B*, **2011**, 25, 3815-3824	1.1	5
14	ADAPTIVE GENERALIZED SYNCHRONIZATION OF HYPERCHAOS SYSTEMS. *International Journal of Modern Physics B*, **2011**, 25, 4563-4571	1.1	4
13	CHAOTIC SYNCHRONIZATION OF HYBRID STATE ON COMPLEX NETWORKS. *International Journal of Modern Physics C*, **2010**, 21, 457-469	1.1	20
12	Research on the relation of EEG signal chaos characteristics with high-level intelligence activity of human brain. *Nonlinear Biomedical Physics*, **2010**, 4, 2		21
11	A new image encryption algorithm based on Latin square matrix. *Nonlinear Dynamics*,1	5	3
10	Characteristic analysis of new four-dimensional autonomous power system and its application in color image encryption. *Multimedia Systems*,1	2.2	1

9	Color image encryption algorithm based on Fisher-Yates scrambling and DNA subsequence operation. *Visual Computer*,1	2.3	2
8	A novel image encryption cryptosystem based on true random numbers and chaotic systems. *Multimedia Systems*,1	2.2	10
7	A robust zero-watermarking algorithm for lossless copyright protection of medical images. *Applied Intelligence*,1	4.9	5
6	Image encryption algorithm for crowd data based on a new hyperchaotic system and Bernstein polynomial. *IET Image Processing*,	1.7	3
5	CCCIH: Content-consistency Coverless Information Hiding Method Based on Generative Models. *Neural Processing Letters*,1	2.4	1
4	Image encryption based on roulette cascaded chaotic system and alienated image library. *Visual Computer*,1	2.3	3
3	A new hybrid image encryption algorithm based on Gray code transformation and snake-like diffusion. *Visual Computer*,1	2.3	1
2	Color image encryption algorithm based on hyperchaotic system and improved quantum revolving gate. *Multimedia Tools and Applications*,1	2.5	0
1	2D sine-logistic-tent-coupling map for image encryption. *Journal of Ambient Intelligence and Humanized Computing*,1	3.7	0