Patrik Kamencay

List of Publications by Year
in descending order

62 papers	**503** citations	933264 **10** h-index	887953 **17** g-index
62 all docs	**62** docs citations	**62** times ranked	**329** citing authors

#	Article	IF	Citations
1	Human Activity Classification Using the 3DCNN Architecture. Applied Sciences (Switzerland), 2022, 12, 931.	1.3	36
2	A New Approach for Abnormal Human Activities Recognition Based on ConvLSTM Architecture. Sensors, 2022, 22, 2946.	2.1	14
3	Recognition of Human Activity and Abnormal Behavior using Deep Neural Network. , 2022, , .		3
4	Numerical approach to design of low frequency magnetic field irradiation system for lab on chip experiments. , 2022, , .		0
5	Digitalization and 3D Reconstruction of Object using Photogrammetry. , 2022, , .		1
6	Investigation of Magnetic Flux Density Variation Influence on the Biological Response of Cell Cultures. , 2021, , .		0
7	A Smart IoT System for Detecting the Position of a Lying Person Using a Novel Textile Pressure Sensor. Sensors, 2021, 21, 206.	2.1	26
8	In-Class Vehicle Categorization Using Standard Convolutional Neural Networks Via Fiber Bragg Grating Sensor Array. , 2021, , .		0
9	The Comparison of Color Texture Features Extraction based on 1D GLCM with Deep Learning Methods. , 2020, , .		9
10	Innovative 3D Reconstruction Method based on Patch Based Technique using Neural Network. , 2020, , .		0
11	Tool for Optimizing Webpages on a Mobile Phone. , 2020, , .		1
12	Vehicle Classification Based on FBG Sensor Arrays Using Neural Networks. Sensors, 2020, 20, 4472.	2.1	11
13	Could electromagnetic signal modulation affect biological reaction of S. Cerevisiae?. , 2020, , .		0
14	Concept of a Wearable Temperature Sensor for Intelligent Textile. Advances in Electrical and Electronic Engineering, 2020, 18, .	0.2	5
15	Violent Behavioral Activity Classification Using Artificial Neural Network. , 2020, , .		1
16	Education of Video Classification Based by Neural Networks. , 2020, , .		2
17	Improved Feature Point Algorithm for 3D Point Cloud Registration. , 2019, , .		10
18	Development of a system for collecting and processing sky images and meteorological data used for weather prediction. Transportation Research Procedia, 2019, 40, 1548-1554.	0.8	1

#	Article	IF	Citations
19	Internet of Things Platform for Rapid Development and Learning. , 2019, , .		0
20	Cloud-type Classification of Ground-Based Images using Deep Learning. , 2019, , .		0
21	Artificial Neural Networks in Educational Process. , 2019, , .		1
22	The vehicle classification based on neural networks in intelligent transport systems. , 2019, , .		0
23	Targeting Ca2+ and K+ Ions Using LF EMF to Induce Proliferation Response of S. Cerevisiae. , 2019, , .		7
24	Anatomy-Aware Spinal Cord Stimulation in Magnetotherapeutical Applications. , 2018, , .		0
25	Comparison of Feature Extraction Methods and Deep Learning Framework for Depth Map Recognition. , 2018, , .		4
26	3D registration of the point cloud data using ICP algorithm in medical image analysis. , 2018, , .		17
27	Low frequency electromagnetic field treatment of yeast cells targeting specific ion channels. , 2018, , .		2
28	Determination of the big mammals migration corridors in the particular areas using remotely-operating intelligent camera system. , 2018, , .		2
29	Vehicles Recognition Based on Point Cloud Representation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 79-84.	0.2	0
30	Advanced point cloud estimation based on multiple view geometry. , 2018, , .		4
31	Sensor network proposal based on IoT for a prediction system of the power output from photovoltaic panels. , 2018, , .		5
32	Animal Recognition System Based on Convolutional Neural Network. Advances in Electrical and Electronic Engineering, 2017, 15, .	0.2	34
33	A New Method for Face Recognition Using Convolutional Neural Network. Advances in Electrical and Electronic Engineering, 2017, 15, .	0.2	58
34	A Novel System for Non-Invasive Method of Animal Tracking and Classification in Designated Area Using Intelligent Camera System. Radioengineering, 2016, 25, 161-168.	0.3	3
35	A Video Camera Road Sign System of the Early Warning from Collision with the Wild Animals. Civil and Environmental Engineering, 2016, 12, 42-46.	0.4	3
36	Accurate wild animal recognition using PCA, LDA and LBPH. , 2016, , .		15

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37	A novel approach for 3D model recognition based on SSCD. , 2016, , .		1
38	A comparison of key-point descriptors for the stereo matching algorithm. , 2016, , .		9
39	Real-Time Segmentation and Tracking Module of Target of Interest from Video Sequence in Object Recognition Systems. Lecture Notes in Electrical Engineering, 2016, , 557-565.	0.3	0
40	3D Modelling, Animation and Simulation of Mammalâ€™s Migration Across Roads. Civil and Environmental Engineering, 2016, 12, 27-33.	0.4	1
41	A New Algorithm for Key Frame Xtraction Based on Depth Map Using Kinect. Communications - Scientific Letters of the University of Zilina, 2016, 18, 29-34.	0.3	0
42	An Efficient P-KCCA Algorithm for 2D-3D Face Recognition Using SVM. Advances in Electrical and Electronic Engineering, 2015, 13, .	0.2	0
43	A Novel Imaging Approach of Web Documents based on Semantic Inclusion of Textual and Nonâ€œTextual Information. AASRI Procedia, 2014, 9, 31-36.	0.6	0
44	Classification of Wild Animals based on SVM and Local Descriptors. AASRI Procedia, 2014, 9, 25-30.	0.6	20
45	Comparison of SIFT and SURF Methods for Use on Hand Gesture Recognition based on Depth Map. AASRI Procedia, 2014, 9, 19-24.	0.6	56
46	Utilization of electro-conductive blended Ag/PA textile rayon yarns as data and power wires in an intelligent textile structures. , 2014, , .		1
47	Inovative possibility of small metal biomarker detection implanted into a human bone. , 2014, , .		0
48	A novel system for automatic detection and classification of animal. , 2014, , .		16
49	Hand gesture recognition based on depth map. , 2014, , .		1
50	3D image reconstruction from 2D CT slices. , 2014, , .		14
51	An Advanced Approach to Extraction of Colour Texture Features Based on GLCM. International Journal of Advanced Robotic Systems, 2014, 11, 104.	1.3	42
52	2D-3D Face Recognition Method Basedon a Modified CCA-PCA Algorithm. International Journal of Advanced Robotic Systems, 2014, 11, 36.	1.3	13
53	A new approach to short web document creation based on textual and visual information. , 2013, , .		1
54	Feature extraction for object recognition using PCA-KNN with application to medical image analysis. , 2013, , .		8

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55	Automatic extraction of non-textual information in web document and their classification. , 2012, , .		8
56	The object recognition based on Scale-Invariant feature transform and hybrid segmentation. , 2012, , .		0
57	Improved face recognition method based on segmentation algorithm using SIFT-PCA. , 2012, , .		10
58	The Evaluation Criterion for Color Image Segmentation Algorithms. Journal of Electrical Engineering, 2012, 63, .	0.4	3
59	The Effect of Metric Space on the Results of Graph Based Colour Image Segmentation. Communications - Scientific Letters of the University of Zilina, 2012, 14, 68-72.	0.3	2
60	Depth map computation using hybrid segmentation algorithm. , 2011, , .		4
61	Simple comparison of image segmentation algorithms based on evaluation criterion. , 2011, , .		16
62	A stereo depth recovery method using belief propagation. , 2011, , .		2