

Chandana Withana

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3835854/publications.pdf>

Version: 2024-02-01

127
papers

1,868
citations

566801

15
h-index

315357

38
g-index

128
all docs

128
docs citations

128
times ranked

1544
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review-Based Taxonomy for Secure Health Care Monitoring: Wireless Smart Cameras. Journal of Applied Security Research, 2023, 18, 16-48.	0.8	1
2	Deep learning for breast cancer classification: Enhanced tangent function. Computational Intelligence, 2022, 38, 506-529.	2.1	3
3	Mixed reality using illumination-aware gradient mixing in surgical telepresence: enhanced multi-layer visualization. Multimedia Tools and Applications, 2022, 81, 1153-1178.	2.6	1
4	Generative adversarial network (GAN) and enhanced root mean square error (ERMSE): deep learning for stock price movement prediction. Multimedia Tools and Applications, 2022, 81, 3995-4013.	2.6	18
5	An enhanced algorithm for improving real-time video transmission for tele-training education. Multimedia Tools and Applications, 2022, 81, 1-20.	2.6	0
6	Deep learning neural networks for emotion classification from text: enhanced leaky rectified linear unit activation and weighted loss. Multimedia Tools and Applications, 2022, 81, 15439-15468.	2.6	4
7	Deep learning for sleep stages classification: modified rectified linear unit activation function and modified orthogonal weight initialisation. Multimedia Tools and Applications, 2022, 81, 9855-9874.	2.6	5
8	Secure data transmission in a real-time network for a tele-training education system. Multimedia Tools and Applications, 2022, 81, 27819-27836.	2.6	3
9	Deep learning for predicting the onset of type 2 diabetes: enhanced ensemble classifier using modified t-SNE. Multimedia Tools and Applications, 2022, 81, 27837-27852.	2.6	3
10	A novel solution of deep learning for sleep apnea detection: enhancement of SC and elimination of GVICS. Multimedia Tools and Applications, 2022, 81, 38569-38592.	2.6	1
11	Noncontact Detection of Cardiopulmonary Activities of Trapped Humans in Rescue Relief Events. IEEE Access, 2022, 10, 75680-75692.	2.6	2
12	A Novel Enhanced Naïve Bayes Posterior Probability (ENBPP) Using Machine Learning: Cyber Threat Analysis. Neural Processing Letters, 2021, 53, 177-209.	2.0	8
13	Deep learning for liver tumour classification: enhanced loss function. Multimedia Tools and Applications, 2021, 80, 4729-4750.	2.6	11
14	A novel secure solution of using mixed reality in data transmission for bowel and jaw surgical telepresence: enhanced rivest cipher RC6 block cipher. Multimedia Tools and Applications, 2021, 80, 5021-5046.	2.6	1
15	An enhanced one-time password with biometric authentication for mixed reality surgical Tele-presence. Multimedia Tools and Applications, 2021, 80, 10075-10100.	2.6	2
16	A novel solution for real time video and path quality, and latency minimization: tele-training in surgical education. Multimedia Tools and Applications, 2021, 80, 9615-9638.	2.6	3
17	A novel approach for early prediction of sudden cardiac death (SCD) using hybrid deep learning. Multimedia Tools and Applications, 2021, 80, 8063-8090.	2.6	10
18	A novel enhanced region proposal network and modified loss function: threat object detection in secure screening using deep learning. Journal of Supercomputing, 2021, 77, 3840-3869.	2.4	10

#	ARTICLE	IF	CITATIONS
19	Object detection and recognition: using deep learning to assist the visually impaired. Disability and Rehabilitation: Assistive Technology, 2021, 16, 280-288.	1.3	16
20	A Novel Intelligent System for Detection of Type 2 Diabetes with Modified Loss Function and Regularization. Proceedings of the Institute for System Programming of RAS, 2021, 33, 93-114.	0.1	0
21	A novel solution of enhanced loss function using deep learning in sleep stage classification: predict and diagnose patients with sleep disorders. Multimedia Tools and Applications, 2021, 80, 11607-11630.	2.6	7
22	A novel enhanced energy function using augmented reality for a bowel: modified region and weighted factor. Multimedia Tools and Applications, 2021, 80, 17893-17922.	2.6	1
23	A novel gaussian distribution and tukey weight (gdatw) algorithms: deformation accuracy for augmented reality (ar) in facelift surgery. Multimedia Tools and Applications, 2021, 80, 15719-15743.	2.6	1
24	A novel secure solution of using mixed reality in data transmission for bowel and jaw surgical training: markov property using SHA 256. Multimedia Tools and Applications, 2021, 80, 18917-18939.	2.6	0
25	A novel augmented reality visualization in jaw surgery: enhanced ICP based modified rotation invariant and modified correntropy. Multimedia Tools and Applications, 2021, 80, 23923.	2.6	3
26	Enhanced classification loss functions and regularization loss function (ECLFaRLF) algorithm for bowel cancer feature classification. Multimedia Tools and Applications, 2021, 80, 21561-21578.	2.6	1
27	A novel solution of using mixed reality in bowel and oral and maxillofacial surgical telepresence: 3D mean value cloning algorithm. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2224.	1.2	1
28	DPV: a taxonomy for utilizing deep learning as a prediction technique for various types of cancers detection. Multimedia Tools and Applications, 2021, 80, 21339-21361.	2.6	6
29	A novel visualization system of using augmented reality in knee replacement surgery: Enhanced bidirectional maximum correntropy algorithm. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2223.	1.2	4
30	Modified quality video: transmission control protocol (TCP) friendly for controlling a congestion. Multimedia Tools and Applications, 2021, 80, 20907-20928.	2.6	1
31	Supervised machine learning for early predicting the sepsis patient: modified mean imputation and modified chi-square feature selection. Multimedia Tools and Applications, 2021, 80, 20477-20500.	2.6	10
32	A novel solution of using deep learning for prostate cancer segmentation: enhanced batch normalization. Multimedia Tools and Applications, 2021, 80, 21293-21313.	2.6	5
33	DDV: A Taxonomy for Deep Learning Methods in Detecting Prostate Cancer. Neural Processing Letters, 2021, 53, 2665-2685.	2.0	4
34	A novel deep learning neural network for fast-food image classification and prediction using modified loss function. Multimedia Tools and Applications, 2021, 80, 25453.	2.6	5
35	A novel augmented reality for hidden organs visualisation in surgery: enhanced super-pixel with sub sampling and variance adaptive algorithm. Multimedia Tools and Applications, 2021, 80, 25411.	2.6	2
36	Augmented reality navigation for liver surgery: an enhanced coherent point drift algorithm based hybrid optimization scheme. Multimedia Tools and Applications, 2021, 80, 28179-28200.	2.6	1

#	ARTICLE	IF	CITATIONS
37	A novel solution of using deep learning for early prediction cardiac arrest in Sepsis patient: enhanced bidirectional long short-term memory (LSTM). Multimedia Tools and Applications, 2021, 80, 32639-32664.	2.6	10
38	Multi-stage error control technique for improving 3DV transmission over OFDM wireless systems. Multimedia Tools and Applications, 2021, 80, 33799-33825.	2.6	0
39	A Novel Intelligent System for Detection of Type 2 Diabetes with Modified Loss Function and Regularization. Programming and Computer Software, 2021, 47, 402-414.	0.5	1
40	Augmented reality for dental implant surgery: enhanced ICP. Journal of Supercomputing, 2021, 77, 1152-1176.	2.4	8
41	Deep learning for vision-based fall detection system: Enhanced optical dynamic flow. Computational Intelligence, 2021, 37, 578-595.	2.1	29
42	A novel augmented reality to visualize the hidden organs and internal structure in surgeries. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, e2055.	1.2	5
43	A novel enhanced intensity-based automatic registration: Augmented reality for visualization and localization cancer tumors. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, e2043.	1.2	3
44	A novel enhanced softmax loss function for brain tumour detection using deep learning. Journal of Neuroscience Methods, 2020, 330, 108520.	1.3	65
45	A novel enhanced hybrid recursive algorithm: Image processing based augmented reality for gallbladder and uterus visualisation. Egyptian Informatics Journal, 2020, 21, 105-118.	4.4	3
46	A novel solution for a Wireless Body Sensor Network: Telehealth elderly people monitoring. Egyptian Informatics Journal, 2020, 21, 91-103.	4.4	6
47	A systematic review: machine learning based recommendation systems for e-learning. Education and Information Technologies, 2020, 25, 2635-2664.	3.5	134
48	A novel solution of using deep learning for left ventricle detection: Enhanced feature extraction. Computer Methods and Programs in Biomedicine, 2020, 197, 105751.	2.6	8
49	A Novel Solution of Using Deep Learning for White Blood Cells Classification: Enhanced Loss Function with Regularization and Weighted Loss (ELFRWL). Neural Processing Letters, 2020, 52, 1517-1553.	2.0	14
50	A novel Modified Chaotic Simplified Advanced Encryption System (MCS-AES): mixed reality for a secure surgical tele-presence. Multimedia Tools and Applications, 2020, 79, 29043-29067.	2.6	6
51	Deep learning neural network for texture feature extraction in oral cancer: enhanced loss function. Multimedia Tools and Applications, 2020, 79, 27867-27890.	2.6	23
52	Speech Emotion Recognition Using Convolutional Neural Network and Long-Short Term Memory. Multimedia Tools and Applications, 2020, 79, 32917-32934.	2.6	32
53	A Novel Visualization System of Using Augmented Reality in Knee Replacement Surgery: Enhanced Bidirectional Maximum Correntropy Algorithm. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, , e2154.	1.2	0
54	A recent review and a taxonomy for multimedia application in Mobile cloud computing based energy efficient transmission. Multimedia Tools and Applications, 2020, 79, 31567-31594.	2.6	9

#	ARTICLE	IF	CITATIONS
55	A Novel Solution of Using Mixed Reality in Bowel and Oral and Maxillofacial Surgical Telepresence: 3D Mean Value Cloning algorithm. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, , e2161.	1.2	0
56	A novel deep learning system for facial feature extraction by fusing CNN and MB-LBP and using enhanced loss function. Multimedia Tools and Applications, 2020, 79, 31027-31047.	2.6	7
57	A recent review and a taxonomy for hard and soft tissue visualization-based mixed reality. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, 1-22.	1.2	4
58	Augmented reality for narrow area navigation in jaw surgery: Modified tracking by detection volume subtraction algorithm. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, e2097.	1.2	3
59	Novel secure surgical telepresence using enhanced advanced encryption standard: during, pre and post surgery. Multimedia Tools and Applications, 2020, 79, 14265-14290.	2.6	1
60	A novel rotation invariant and Manhattan metric-based pose refinement: Augmented reality-based oral and maxillofacial surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, e2077.	1.2	3
61	Deep convolutional network for breast cancer classification: enhanced loss function (ELF). Journal of Supercomputing, 2020, 76, 8548-8565.	2.4	19
62	A Novel Hybrid Fall Detection Technique Using Body Part Tracking and Acceleration. , 2020, , .		0
63	A novel modified undersampling (MUS) technique for software defect prediction. Computational Intelligence, 2019, 35, 1003-1020.	2.1	13
64	A novel solution for an efficient telecollaborating in surgical medical education: Three-dimensional teleimmersion systems. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3608.	2.6	1
65	Sound Detection Technology and Heron's Law for Secure Monitoring System. , 2019, , .		0
66	A novel multiple communication paths for surgical telepresence videos delivery of the maxilla area in oral and maxillofacial surgery. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 873-883.	1.7	3
67	A novel mixed reality in breast and constructive jaw surgical tele-presence. Computer Methods and Programs in Biomedicine, 2019, 177, 253-268.	2.6	12
68	Implementation of cryptography in steganography for enhanced security. Multimedia Tools and Applications, 2019, 78, 32721-32734.	2.6	7
69	A novel augmented reality (AR) scheme for knee replacement surgery by considering cutting error accuracy. International Journal of Medical Robotics and Computer Assisted Surgery, 2019, 15, e1958.	1.2	40
70	A novel solution for real-time wireless networks: Telehealth psychological services in rural area. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3550.	2.6	1
71	Deep Learning for Aspect-Based Sentiment Analysis: A Comparative Review. Expert Systems With Applications, 2019, 118, 272-299.	4.4	354
72	Service delivery innovation for hospital emergency management using rich organizational modelling. Health Informatics Journal, 2019, 25, 1412-1433.	1.1	0

#	ARTICLE	IF	CITATIONS
73	A novel rotational matrix and translation vector algorithm: geometric accuracy for augmented reality in oral and maxillofacial surgeries. International Journal of Medical Robotics and Computer Assisted Surgery, 2018, 14, e1889.	1.2	49
74	An Emotion Recognition Model Based on Facial Recognition in Virtual Learning Environment. Procedia Computer Science, 2018, 125, 2-10.	1.2	132
75	Lung Cancer Detection using CT Scan Images. Procedia Computer Science, 2018, 125, 107-114.	1.2	159
76	Image Segmentation for Early Stage Brain Tumor Detection using Mathematical Morphological Reconstruction. Procedia Computer Science, 2018, 125, 115-123.	1.2	89
77	The effect of culture and belief systems on studentsâ€™ academic buoyancy. Education and Information Technologies, 2018, 23, 1465-1482.	3.5	1
78	Unfamiliar technology: Reaction of international students to blended learning. Computers and Education, 2018, 122, 92-103.	5.1	64
79	A Weight Joint-Based Clustering (WJC) Method for Secure Monitoring System. Procedia Computer Science, 2018, 125, 640-646.	1.2	0
80	Early stage oral cavity cancer detection: Anisotropic pre-processing and fuzzy C-means segmentation. , 2018, , .		5
81	Ethical Implications of User Perceptions of Wearable Devices. Science and Engineering Ethics, 2018, 24, 1-28.	1.7	99
82	A Novel Weighted Integral Energy Functional (WIEF) Algorithm: Augmented Reality (AR) for Visualising the Blood Vessels in Breast Implant Surgeries. American Journal of Applied Sciences, 2018, 15, 443-455.	0.1	0
83	Remote Surgeon Hand Motion and Occlusion Removal in Mixed Reality in Breast Surgical Telepresence: Rural and Remote Care. American Journal of Applied Sciences, 2018, 15, 497-509.	0.1	5
84	Reducing Deformation - Augmented Reality (AR) in Facelift Surgery: A Theoretical and Mathematical Study. , 2018, , .		2
85	A novel noise filtered and occlusion removal: navigational accuracy in augmented reality-based constructive jaw surgery. Oral and Maxillofacial Surgery, 2018, 22, 385-401.	0.6	26
86	Using software simulators to enhance the learning of digital logic design for the information technology students. European Journal of Engineering Education, 2017, 42, 533-546.	1.5	5
87	Improving Accuracy in Face Recognition Proposal to Create a Hybrid Photo Indexing Algorithm, Consisting of Principal Component Analysis and a Triangular Algorithm (PCAaTA). International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1756001.	0.7	3
88	An exploration of non-contact cardiopulmonary measurement using the smartphone in rescue relief events. , 2016, , .		1
89	Incorporating hardware and software features into a prediction model for processorâ€™system throughput. Computer Applications in Engineering Education, 2016, 24, 169-179.	2.2	0
90	A novel robust camera mouse for disabled people (RCMDP). , 2016, , .		6

#	ARTICLE	IF	CITATIONS
91	Using simulators for teaching computer organization and architecture. Computer Applications in Engineering Education, 2016, 24, 215-224.	2.2	19
92	Development of the Wireless Cisco Networking Laboratory pod. , 2016, , .		1
93	Impact of using mobile devices in earthquake. , 2016, , .		3
94	Cultural impact on agile projects: Universal agile culture model (UACM). , 2016, , .		2
95	Enhanced e-health framework for security and privacy in healthcare system. , 2016, , .		29
96	Face recognition template in photo indexing: A proposal of hybrid Principal Component Analysis and triangular approach (PCAaTA). , 2016, , .		3
97	Incorporating skin color for improved face detection and tracking system. , 2016, , .		11
98	Students perception on the use of social media to learn English within secondary education in developing countries. , 2016, , .		4
99	Survey on memristor models. , 2016, , .		3
100	Comparison analyses for anonymous communication schemes in social network: A proposal of Onion based Ring Router model in Social Networking (RTor). , 2016, , .		0
101	An extended OpenFlow model: An incorporation of initial messages in a virtual environment. , 2016, , .		0
102	Detecting Occluded Faces in Unconstrained Crowd Digital Pictures. , 2016, , .		1
103	A Proposed Robust Video Watermarking Algorithm: Enhanced Extraction from Geometric Attacks. , 2016, , .		1
104	Impacts of Mobile Cloud Learning (MCL) on Blended Flexible Learning (BFL). , 2016, , .		10
105	Impact of wireless communications technologies on elder people healthcare: Smart home in Australia. , 2016, , .		12
106	Development of a virtualized networking lab using GNS3 and VMware workstation. , 2016, , .		9
107	Network simulations and future technologies in teaching networking courses: Development of a laboratory model with Cisco Virtual Internet Routing Lab (VirI). , 2016, , .		6
108	Progress of agile movements in Australia: Propose a Universal Dynamic System Development Method (UDSDM) and universal framework. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
109	Impact of e-Learning on students: A proposal and evaluation of enhanced e-learning model to increase the academic performance of university students. , 2016, , .		2
110	Cloud Computing Potability with Risk Assessment. , 2016, , .		6
111	A proposed method on painting authentication using Contourelet transform (PAUCT). , 2016, , .		1
112	SIFT based approach on Bangla sign language recognition. , 2015, , .		42
113	Framework to improve delivery methods in higher education through online learning. , 2015, , .		10
114	Citizen's Charter Driven Service Area Improvement. , 2015, , .		5
115	Hybrid method for Gait recognition using SVM and Baysian Network. , 2015, , .		4
116	Designing Touch-Based Hybrid Authentication Method for Smartphones. Procedia Computer Science, 2015, 70, 198-204.	1.2	14
117	Distributed Denial of Service attack on cloud: Detection and prevention. , 2015, , .		10
118	Enhanced Virtual Password Authentication Scheme Resistant to Shoulder Surfing. , 2015, , .		3
119	Enhanced Apriori Algorithm model in course suggestion system. , 2015, , .		5
120	A hybrid encryption model for secure cloud computing. , 2015, , .		9
121	Influences of learning styles on learner satisfaction in E-learning environment. , 2015, , .		2
122	A model to improve Quality of Service (QoS) in cloud based Virtual lab framework. , 2015, , .		5
123	ROBDD complexity analysis for XOR/XNOR min-terms. International Journal of Electronics, 2008, 95, 111-123.	0.9	1
124	Binary Decision Diagrams and neural networks. Journal of Supercomputing, 2007, 39, 301-320.	2.4	5
125	Augmented reality for visualization the narrow areas in jaw surgery: modified Correntropy based enhanced ICP algorithm. Multimedia Tools and Applications, 0, , 1.	2.6	0
126	A novel solution of deep learning for endoscopic ultrasound image segmentation: enhanced computer aided diagnosis of gastrointestinal stromal tumor. Multimedia Tools and Applications, 0, , 1.	2.6	3

#	ARTICLE	IF	CITATIONS
127	Enhancing the prediction of type 2 diabetes mellitus using sparse balanced SVM. Multimedia Tools and Applications, 0, , .	2.6	2