Tsair-Fwu Lee

List of Publications by Year
in descending order

110 papers	1,247 citations	394421 19 h-index	414414 32 g-index
115 all docs	115 docs citations	115 times ranked	1663 citing authors

#	Article	IF	Citations
1	Detection of Adversarial DDoS Attacks Using Generative Adversarial Networks with Dual Discriminators. Symmetry, 2022, 14, 66.	2.2	4
2	Using deep learning models to analyze the cerebral edema complication caused by radiotherapy in patients with intracranial tumor. Scientific Reports, 2022, 12, 1555.	3.3	5
3	Development of an Automated Body Temperature Detection Platform for Face Recognition in Cattle with YOLO V3-Tiny Deep Learning and Infrared Thermal Imaging. Applied Sciences (Switzerland), 2022, 12, 4036.	2.5	6
4	Hourly Power Consumption Forecasting Using RobustSTL and TCN. Applied Sciences (Switzerland), 2022, 12, 4331.	2.5	6
5	Development of Joint Activity Angle Measurement and Cloud Data Storage System. Sensors, 2022, 22, 4684.	3.8	2
6	Dosimetric Parameters Related to Acute Radiation Dermatitis of Patients with Nasopharyngeal Carcinoma Treated by Intensity-Modulated Proton Therapy. Journal of Personalized Medicine, 2022, 12, 1095.	2.5	0
7	Outcomes of patients with nasopharyngeal carcinoma treated with intensity-modulated radiotherapy. Journal of Radiation Research, 2021, 62, 438-447.	1.6	12
8	Applications of a novel detector for pencil beam scanning proton therapy beam quality assurance. International Journal of Modern Physics B, 2021, 35, 2140041.	2.0	0
9	Photographic image processing to predict radiation dermatitis in breast cancer patients using machine learning algorithms. International Journal of Modern Physics B, 2021, 35, 2140022.	2.0	1
10	An adaptive method for recalibrating Gafchromic EBT3 film. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1007, 165435.	1.6	1
11	Pre-screening for osteoporosis with calcaneus quantitative ultrasound and dual-energy X-ray absorptiometry bone density. Scientific Reports, 2021, 11, 15709.	3.3	12
12	Comparison of MRI Image Segmentation Methods for Radiation-Induced Brain Edema After Radiotherapy for Patients with Intracranial Tumors. Springer Proceedings in Materials, 2021, , 457-471.	0.3	0
13	Calibration of the EBT3 Gafchromic Film Using HNN Deep Learning. BioMed Research International, 2021, 2021, 1-10.	1.9	0
14	Quality of Life as a Mediator between Cancer Stage and Long-Term Mortality in Nasopharyngeal Cancer Patients Treated with Intensity-Modulated Radiotherapy. Cancers, 2021, 13, 5063.	3.7	11
15	Usefulness of Vaginal/Rectal Cylinders or Interstitial Needles for Dosimetric Verification and Uncertainty Analysis of Brachytherapy Treatment. Journal of Medical and Biological Engineering, 2021, 41, 805-811.	1.8	0
16	Synthesis of Adversarial DDoS Attacks Using Wasserstein Generative Adversarial Networks with Gradient Penalty. , 2021, , .		0
17	Analyzing the association between dose-volume parameters and radiation-induced brain edema in patients with brain tumor receiving stereotactic radiosurgery. International Journal of Modern Physics B, 2020, 34, 2040134.	2.0	0
18	Automatic mantispid egg detection and counting using image nature. International Journal of Modern Physics B, 2020, 34, 2040138.	2.0	0

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19	Radiation-Induced Secondary Cancer Risk Assessment in Patients With Lung Cancer After Stereotactic Body Radiotherapy Using the CyberKnife M6 System With Lung-Optimized Treatment. Frontiers in Bioengineering and Biotechnology, 2020, 8, 306.	4.1	3
20	Evaluating the Risk Factors of Post Inflammatory Hyperpigmentation Complications with Nd-YAG Laser Toning Using LASSO-Based Algorithm. Applied Sciences (Switzerland), 2020, 10, 2049.	2.5	6
21	Comparison of Intrafractional Motion in Head and Neck Cancer Between Two Immobilization Methods During Stereotactic Ablative Radiation Therapy by CyberKnife. Cancer Management and Research, 2020, Volume 12, 13599-13606.	1.9	5
22	Face recognition under varying lighting conditions: improving the recognition accuracy for local descriptors based on weber-face followed by difference of Gaussians. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2019, 42, 593-601.	1.1	2
23	Plan Quality and Secondary Cancer Risk Assessment in Patients with Benign Intracranial Lesions after Radiosurgery using the CyberKnife M6 Robotic Radiosurgery System. Scientific Reports, 2019, 9, 9953.	3.3	3
24	Developing a multivariable normal tissue complication probability model to predict late rectal bleeding following intensity-modulated radiation therapy. Journal of Cancer, 2019, 10, 2588-2593.	2.5	8
25	Evaluate the Medial Muscle Strength by Kick Training between the Standing and Sitting Postures. Applied Sciences (Switzerland), 2019, 9, 718.	2.5	2
26	Real-time target moving monitoring algorithm in respiration gating system. Modern Physics Letters B, 2019, 33, 1940047.	1.9	0
27	Developmental Screening System for Patient Vibration Signals with Knee Disorder. Applied Sciences (Switzerland), 2019, 9, 908.	2.5	2
28	Development of a System for Real-Time Monitoring of Pressure, Temperature, and Humidity in Casts. Sensors, 2019, 19, 2417.	3.8	7
29	Application of a vertical charged-particle irradiation platform in glioblastoma multiforme cancer stem cell research. Nuclear Instruments & Methods in Physics Research B, 2019, 441, 102-107.	1.4	1
30	Lung Locations Most Affected by Dose-Calculation Algorithms in CyberKnife Stereotactic Body Radiotherapy. IEEE Access, 2019, 7, 170763-170773.	4.2	0
31	Face Recognition under Lighting Variation Conditions Using Tan-Triggs Method and Local Intensity Area Descriptor. Advances in Intelligent Systems and Computing, 2018, , 84-92.	0.6	3
32	Using LASSO regression based SVM classification to improve the predictive performance of radiation-induced pneumonitis complication in breast cancer. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2018, 41, 660-666.	1.1	1
33	Radiation-induced secondary malignancies for nasopharyngeal carcinoma: a pilot study of patients treated via IMRT or VMAT. Cancer Management and Research, 2018, Volume 10, 131-141.	1.9	18
34	Relationships among patient characteristics, irradiation treatment planning parameters, and treatment toxicity of acute radiation dermatitis after breast hybrid intensity modulation radiation therapy. PLoS ONE, 2018, 13, e0200192.	2.5	8
35	Video Object Tracking with Heuristic Optimization Methods. Journal of Image and Graphics(United) Tj ETQq1 1 0.784314 rgBT /Overlo	3.2	14
36	Local intensity area descriptor for facial recognition in ideal and noise conditions. Journal of Electronic Imaging, 2017, 26, 023011.	0.9	5

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37	Propensity-score-matched evaluation of the incidence of radiation pneumonitis and secondary cancer risk for breast cancer patients treated with IMRT/VMAT. Scientific Reports, 2017, 7, 13771.	3.3	16
38	Consistency between Targets Delineated by Angiography, Computed Tomography, and Magnetic Resonance Imaging in Stereotactic Radiosurgery for Arteriovenous Malformation. Stereotactic and Functional Neurosurgery, 2017, 95, 236-242.	1.5	5
39	Long‐term late toxicities and quality of life for survivors of nasopharyngeal carcinoma treated with intensity‐modulated radiotherapy versus non‐intensity‐modulated radiotherapy. Head and Neck, 2016, 38, E1026-32.	2.0	72
40	An innovative method to acquire the location of point A for cervical cancer treatment by HDR brachytherapy. Journal of Applied Clinical Medical Physics, 2016, 17, 434-445.	1.9	0
41	Improving Diagnostic Viewing of Region of Interest in Lung Computed Tomography Image Using Unsharp Masking and Singular Value Decomposition. , 2016, , .		1
42	Improving the Face Recognition Accuracy under Varying Illumination Conditions for Local Binary Patterns and Local Ternary Patterns Based on Weber-Face and Singular Value Decomposition. , 2016, , .		7
43	System Development for Patient's Physiological Data Storage and Real-Time Vital Signs Monitoring. , 2016, , .		0
44	Synthesis of vibroarthrographic signals in knee osteoarthritis diagnosis training. BMC Research Notes, 2016, 9, 352.	1.4	12
45	LASSO-based NTCP model for radiation-induced temporal lobe injury developing after intensity-modulated radiotherapy of nasopharyngeal carcinoma. Scientific Reports, 2016, 6, 26378.	3.3	38
46	Improved Node Localization for WSN Using Heuristic Optimization Approaches. , 2016, , .		20
47	Evaluation of Multiple-Sampling Function used with a Microtek flatbed scanner for Radiation Dosimetry Calibration of EBT2 Film. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 832, 179-183.	1.6	6
48	Successful hemostasis and resection of a bleeding gastric polyp by endoscopic banding ligation in a uremic patient taking antiplatelet agent. SpringerPlus, 2016, 5, 1806.	1.2	0
49	Physical Characteristics of Fixed and Dynamics Collimator for Cyberknife M6. , 2016, , .		2
50	Ir-192 Calibration in Air with Farmer Chamber for HDR Brachytherapy. Journal of Medical and Biological Engineering, 2016, 36, 145-152.	1.8	4
51	Constructing pathological non-ideal active device models using mirror cells. International Journal of Electronics Letters, 2016, 4, 1-15.	1.2	2
52	Geometric error of cervical point A calculated through traditional reconstruction procedures for brachytherapy treatment. Journal of Applied Clinical Medical Physics, 2015, 16, 457-468.	1.9	1
53	Patient- and therapy-related factors associated with the incidence of xerostomia in nasopharyngeal carcinoma patients receiving parotid-sparing helical tomotherapy. Scientific Reports, 2015, 5, 13165.	3.3	20
54	Normal tissue complication probability modeling for cochlea constraints to avoid causing tinnitus after head-and-neck intensity-modulated radiation therapy. Radiation Oncology, 2015, 10, 194.	2.7	37

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55	Data Acquisition and Processing in Biology and Medicine. BioMed Research International, 2015, 2015, 1-2.	1.9	3
56	Radiation Oncology and Medical Physics. BioMed Research International, 2015, 2015, 1-3.	1.9	2
57	Tennis Elbow Diagnosis Using Equivalent Uniform Voltage to Fit the Logistic and the Probit Diseased Probability Models. BioMed Research International, 2015, 2015, 1-9.	1.9	0
58	High-Q biquadratic notch filter synthesis using nodal admittance matrix expansion. AEU - International Journal of Electronics and Communications, 2015, 69, 981-987.	2.9	16
59	The suitable dose range for the calibration of EBT2 film by the PDD method with a comparison of two curve fitting algorithms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 777, 85-90.	1.6	6
60	Predicting survival of individual patients with esophageal cancer by adaptive neuro-fuzzy inference system approach. Applied Soft Computing Journal, 2015, 35, 583-590.	7.2	14
61	Calibration of EBT2 film using a red–channel PDD method in combination with a modified three–channel technique. Medical Physics, 2015, 42, 5838-5847.	3.0	13
62	Developing Multivariable Normal Tissue Complication Probability Model to Predict the Incidence of Symptomatic Radiation Pneumonitis among Breast Cancer Patients. PLoS ONE, 2015, 10, e0131736.	2.5	22
63	Use Dose Bricks Concept to Implement Nasopharyngeal Carcinoma Treatment Planning. BioMed Research International, 2014, 2014, 1-10.	1.9	1
64	Technical Advancement of Radiation Therapy. BioMed Research International, 2014, 2014, 1-3.	1.9	4
65	Impact of late toxicities on quality of life for survivors of nasopharyngeal carcinoma. BMC Cancer, 2014, 14, 856.	2.6	34
66	Dependency of EBT2 film calibration curve on postirradiation time. Medical Physics, 2014, 41, 021726.	3.0	11
67	The Different Dose-Volume Effects of Normal Tissue Complication Probability Using LASSO for Acute Small-Bowel Toxicity during Radiotherapy in Gynecological Patients with or without Prior Abdominal Surgery. BioMed Research International, 2014, 2014, 1-9.	1.9	12
68	LASSO NTCP predictors for the incidence of xerostomia in patients with head and neck squamous cell carcinoma and nasopharyngeal carcinoma. Scientific Reports, 2014, 4, 6217.	3.3	25
69	Using Multivariate Regression Model with Least Absolute Shrinkage and Selection Operator (LASSO) to Predict the Incidence of Xerostomia after Intensity-Modulated Radiotherapy for Head and Neck Cancer. PLoS ONE, 2014, 9, e89700.	2.5	74
70	Treatment of nasopharyngeal carcinoma by tomotherapy: five-year experience. Radiation Oncology, 2013, 8, 107.	2.7	20
71	Quantitative analysis of normal tissue effects in the clinic (QUANTEC) guideline validation using quality of life questionnaire datasets for parotid gland constraints to avoid causing xerostomia during head-and-neck radiotherapy. Radiotherapy and Oncology, 2013, 106, 352-358.	0.6	38
72	Improving Face Recognition Performance Using Similarity Feature-Based Selection and Classification Algorithm. , 2013, , .		5

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73	Symbolic analysis of active device containing differencing voltage or current characteristics. Microelectronics Journal, 2013, 44, 354-358.	2.0	5
74	Scintigraphic assessment of salivary function after intensity-modulated radiotherapy for head and neck cancer: Correlations with parotid dose and quality of life. Oral Oncology, 2013, 49, 42-48.	1.5	32
75	A Light-Field-Based Method to Adjust On-Axis Rounded Leaf End MLC Position to Predict Off-Axis MLC Penumbra Region Dosimetric Performance in a Radiation Therapy Planning System. BioMed Research International, 2013, 2013, 1-8.	1.9	2
76	Impact of primary tumor volume on local control after definitive radiotherapy for head and neck cancer. Head and Neck, 2013, 36, n/a-n/a.	2.0	16
77	An Echo-Aided Bat Algorithm to Support Measurable Movement for Optimization Efficiency. , 2013, , .		1
78	A Novel ScanNet Method for Real-Time Position Monitoring System in Radiotherapy. , 2013, , .		0
79	Recognition of Gait Patterns with Partial Weight Bearing using Insole Plantar Pressure Sensor. , 2013, , .		0
80	Quality of Treatment Planning Evaluation for Head and Neck Cancer Using Artificial Neural Networks Intelligence System. Advanced Science Letters, 2013, 19, 3236-3243.	0.2	0
81	Dosimetric advantages of generalised equivalent uniform dose-based optimisation on dose–volume objectives in intensity-modulated radiotherapy planning for bilateral breast cancer. British Journal of Radiology, 2012, 85, 1499-1506.	2.2	18
82	A fuzzy system for evaluating radiation treatment plans of head and neck cancer. , 2012, , .		1
83	Fractal Dimension Characteristic Analysis for Dose Verification in Intensity Modulation Radiation Therapy. , 2012, , .		0
84	Using Kalman Filter with Morphological Image Operation Tracking a Moving Target in Radiotherapy. , 2012, , .		0
85	Evaluation of the Opposition Ability for Hand Intrinsic Damage Using a Simple Self-Constructing Electromyography. , 2012, , .		0
86	Symbolic Small-Signal Analysis of Various Amplifiers. , 2012, , .		0
87	A light field–based method to adjust rounded leaf end MLC position for split shape dose calculation correction in a radiation therapy treatment planning system. Journal of Applied Clinical Medical Physics, 2012, 13, 3-18.	1.9	11
88	Analysis of Vibroarthrographic Signals for Knee Osteoarthritis Diagnosis. , 2012, , .		13
89	Normal tissue complication probability model parameter estimation for xerostomia in head and neck cancer patients based on scintigraphy and quality of life assessments. BMC Cancer, 2012, 12, 567.	2.6	12
90	Fuzzy Logic-Based Prognostic Score for Outcome Prediction in Esophageal Cancer. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1224-1230.	3.2	25

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91	An intelligence system approach using artificial neural networks to evaluate the quality of treatment planning for nasopharyngeal carcinoma. Scientific Research and Essays, 2012, 7, .	0.4	2
92	Comparative analysis of SmartArcâ€based dual arc volumetricâ€modulated arc radiotherapy (VMAT) versus intensityâ€modulated radiotherapy (IMRT) for nasopharyngeal carcinoma. Journal of Applied Clinical Medical Physics, 2011, 12, 158-174.	1.9	60
93	Dosimetric Comparison of Helical Tomotherapy and Dynamic Conformal Arc Therapy in Stereotactic Radiosurgery for Vestibular Schwannomas. Medical Dosimetry, 2011, 36, 62-70.	0.9	24
94	Health-related Quality of life in 640 head and neck cancer survivors after radiotherapy using EORTC QLQ-C30 and QLQ-H&N35 questionnaires. BMC Cancer, 2011, 11, 128.	2.6	92
95	A Novel Offline-Based DWBA Algorithm with Sorting REPORT for WDM-EPON System. , 2010, , .		2
96	Quality of life for head and neck cancer patients treated by combined modality therapy: the therapeutic benefit of technological advances in radiotherapy. Quality of Life Research, 2010, 19, 1243-1254.	3.1	23
97	Helical tomotherapy for single and multiple liver tumours. Radiation Oncology, 2010, 5, 58.	2.7	13
98	Pretreatment Quality of Life As a Predictor of Distant Metastasis and Survival for Patients With Nasopharyngeal Carcinoma. Journal of Clinical Oncology, 2010, 28, 4384-4389.	1.6	50
99	Multivariate analysis of quality of life outcome for nasopharyngeal carcinoma patients after treatment. Radiotherapy and Oncology, 2010, 97, 263-269.	0.6	51
100	Evaluating the Dosimetric Impact of Interfraction Variations During Image-Guided Radiotherapy Using Six-degree-of-freedom Image Registration and Equivalent Uniform Dose Method. , 2010, , .		0
101	A Volume Visualization System with Augmented Reality Interaction for Evaluation of Radiotherapy Plans. , 2009, , .		3
102	An Observer-Based Method for Secure Communication. , 2009, , .		0
103	Precision Segmentation Rendering for 3-D Coronary Angiography Medical Image. , 2009, , .		0
104	Quantitative Coronary Analysis Medical Image Processing Improved by Combining Wavelet Edge Detection and Segmentation. , 2009, , .		5
105	Performance Study of Asymmetric Traffic Load for OBS Ring Networks. , 2009, , .		1
106	Boundary Finding Combining Wavelet and Markov Random Field Segmentation Based on Maximum Entropy Theory. , 2009, , .		1
107	Dosimetric comparisons of helical tomotherapy and step-and-shoot intensity-modulated radiotherapy in nasopharyngeal carcinoma. Radiotherapy and Oncology, 2008, 89, 89-96.	0.6	88
108	VAR Compensation and Voltage Control Strategy Optimization Using Artificial Immune Algorithm for Intelligent Transmission Networks. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
109	An Embedded Methodology for FPGAs' Digital Distance Relay Design and Analysis. , 2006, , .		0
110	Fault Diagnosis of Power Transformers Using SVM/ANN with Clonal Selection Algorithm for Features and Kernel Parameters Selection. , 0, , .		3