Lorenzo Livi

List of Publications by Year
in descending order

132 papers	3,433 citations	186265 28 h-index	175258 52 g-index
136 all docs	136 docs citations	136 times ranked	3915 citing authors

#	Article	IF	Citations
1	Accelerated partial breast irradiation using intensity-modulated radiotherapy versus whole breast irradiation: 5-year survival analysis of a phase 3 randomised controlled trial. European Journal of Cancer, 2015, 51, 451-463.	2.8	390
2	Organs at risk in the brain and their dose-constraints in adults and in children: A radiation oncologist's guide for delineation in everyday practice. Radiotherapy and Oncology, 2015, 114, 230-238.	0.6	165
3	The graph matching problem. Pattern Analysis and Applications, 2013, 16, 253-283.	4.6	141
4	Stereotactic Radiotherapy for Adrenal Gland Metastases: University of Florence Experience. International Journal of Radiation Oncology Biology Physics, 2012, 82, 919-923.	0.8	117
5	Radical radiotherapy for early glottic cancer: Results in a series of 1087 patients from two Italian radiation oncology centers. I. The case of T1N0 disease. International Journal of Radiation Oncology Biology Physics, 2005, 63, 1378-1386.	0.8	114
6	Graph Neural Networks with Convolutional ARMA Filters. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	104
7	Modeling and recognition of smart grid faults by a combined approach of dissimilarity learning and one-class classification. Neurocomputing, 2015, 170, 368-383.	5.9	101
8	Accelerated Partial Breast Irradiation With IMRT: New Technical Approach and Interim Analysis of Acute Toxicity in a Phase III Randomized Clinical Trial. International Journal of Radiation Oncology Biology Physics, 2010, 77, 509-515.	0.8	95
9	Granular computing, computational intelligence, and the analysis of non-geometric input spaces. Granular Computing, 2016, 1, 13-20.	8.0	95
10	Radical radiotherapy for early glottic cancer: Results in a series of 1087 patients from two Italian radiation oncology centers. II. The case of T2N0 disease. International Journal of Radiation Oncology Biology Physics, 2005, 63, 1387-1394.	0.8	88
11	Association between single nucleotide polymorphisms in the XRCC1 and RAD51 genes and clinical radiosensitivity in head and neck cancer. Radiotherapy and Oncology, 2011, 99, 356-361.	0.6	83
12	Association Between Genetic Polymorphisms in the XRCC1, XRCC3, XPD, GSTM1, GSTT1, MSH2, MLH1, MSH3, and MGMT Genes and Radiosensitivity in Breast Cancer Patients. International Journal of Radiation Oncology Biology Physics, 2011, 81, 52-58.	0.8	76
13	Radiofrequency ablation for minimally invasive treatment of breast carcinoma. A pilot study in elderly inoperable patients. Gynecologic Oncology, 2007, 104, 304-310.	1.4	75
14	Investigating Echo-State Networks Dynamics by Means of Recurrence Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 427-439.	11.3	67
15	A Granular Computing approach to the design of optimized graph classification systems. Soft Computing, 2014, 18, 393-412.	3.6	45
16	Predicting the status of axillary lymph nodes in breast cancer: A multiparameter approach including axillary ultrasound scanning. Breast, 2009, 18, 103-108.	2.2	44
17	Accelerated partial breast irradiation using intensity-modulated radiotherapy technique compared to whole breast irradiation for patients aged 70 years or older: subgroup analysis from a randomized phase 3 trial. Breast Cancer Research and Treatment, 2015, 153, 539-547.	2.5	42
18	Determination of the Edge of Criticality in Echo State Networks Through Fisher Information Maximization. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 706-717.	11.3	42

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19	Prognostic value of positive human epidermal growth factor receptor 2 status and negative hormone status in patients with T1a/T1b, lymph node‑negative breast cancer. Cancer, 2012, 118, 3236-3243.	4.1	39
20	Optimized dissimilarity space embedding for labeled graphs. Information Sciences, 2014, 266, 47-64.	6.9	37
21	Learning representations of multivariate time series with missing data. Pattern Recognition, 2019, 96, 106973.	8.1	35
22	Survival and breast relapse in 3834 patients with T1-T2 breast cancer after conserving surgery and adjuvant treatment. Radiotherapy and Oncology, 2007, 82, 287-293.	0.6	32
23	Radiotherapy Timing in 4,820 Patients With Breast Cancer: University of Florence Experience. International Journal of Radiation Oncology Biology Physics, 2009, 73, 365-369.	0.8	32
24	Post-operative radiotherapy in N2 non-small cell lung cancer: A retrospective analysis of 175 patients. Radiotherapy and Oncology, 2010, 96, 84-88.	0.6	32
25	Deep divergence-based approach to clustering. Neural Networks, 2019, 113, 91-101.	5.9	32
26	Available evidence on re-irradiation with stereotactic ablative radiotherapy following high-dose previous thoracic radiotherapy for lung malignancies. Cancer Treatment Reviews, 2015, 41, 511-518.	7.7	31
27	Breast cancer occurred after Hodgkin's disease: Clinico-pathological features, treatments and outcome: Analysis of 214 cases. Critical Reviews in Oncology/Hematology, 2012, 81, 29-37.	4.4	29
28	Interpreting Recurrent Neural Networks Behaviour via Excitable Network Attractors. Cognitive Computation, 2020, 12, 330-356.	5.2	29
29	Real-Time Quantitative Reverse Transcriptase-Polymerase Chain Reaction (RT-PCR) for the Measurement of Prostate-Specific Antigen mRNA in the Peripheral Blood of Patients with Prostate Carcinoma Using the TaqManTM Detection System. Clinical Chemistry and Laboratory Medicine, 2001, 39, 385-91.	2.3	28
30	Interim PET After Two ABVD Cycles in Early-Stage Hodgkin Lymphoma: Outcomes Following the Continuation of Chemotherapy Plus Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2015, 92, 1077-1083.	0.8	28
31	On the Problem of Modeling Structured Data with the MinSOD Representative. International Journal of Computer Theory and Engineering, 0, , 9-14.	3.4	28
32	Prognostic factors and clinical features in patients with leptominengeal metastases from breast cancer: a single center experience. Journal of Chemotherapy, 2012, 24, 279-284.	1.5	27
33	Interval type-2 fuzzy sets to model linguistic label perception in online services satisfaction. Soft Computing, 2015, 19, 237-250.	3.6	27
34	Multiplex visibility graphs to investigate recurrent neural network dynamics. Scientific Reports, 2017, 7, 44037.	3.3	26
35	Graph ambiguity. Fuzzy Sets and Systems, 2013, 221, 24-47.	2.7	25
36	Concept Drift and Anomaly Detection in Graph Streams. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5592-5605.	11.3	25

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37	Outcome After Conservative Surgery and Breast Irradiation in 5,717 Patients With Breast Cancer: Implications for Supraclavicular Nodal Irradiation. International Journal of Radiation Oncology Biology Physics, 2010, 76, 978-983.	0.8	24
38	On the impact of topological properties of smart grids in power losses optimization problems. International Journal of Electrical Power and Energy Systems, 2016, 78, 755-764.	5.5	24
39	Loco regional failure pattern after lumpectomy and breast irradiation in 4185 patients with T1 and T2 breast cancer. Implications for nodal irradiation. Acta OncolÃ³gica, 2006, 45, 564-570.	1.8	23
40	Microinvasive breast cancer: pathological parameters, cancer subtypes distribution, and correlation with axillary lymph nodes invasion. Results of a large single-institution series. Breast Cancer, 2016, 23, 640-648.	2.9	23
41	Breast Cancer in the Elderly: Treatment of 1500 Patients. Breast Journal, 2006, 12, 353-359.	1.0	22
42	Reirradiation in Head and Neck Recurrent or Second Primary Tumor: Efficacy, Safety, and Prognostic Factors. Tumori, 2015, 101, 585-592.	1.1	22
43	Recurrence quantification analysis of dynamic brain networks. European Journal of Neuroscience, 2021, 53, 1040-1059.	2.6	22
44	A PPAR-gamma agonist attenuates pulmonary injury induced by irradiation in a murine model. Lung Cancer, 2015, 90, 405-409.	2.0	21
45	Granular modeling and computing approaches for intelligent analysis of non-geometric data. Applied Soft Computing Journal, 2015, 27, 567-574.	7.2	21
46	Benefit of Radiation Boost After Whole-Breast Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2009, 75, 1029-1034.	0.8	20
47	Management of Stage II testicular seminoma over a period of 40 years. Urologic Oncology: Seminars and Original Investigations, 2009, 27, 534-538.	1.6	20
48	Sodium hyaluronate and chondroitin sulfate replenishment therapy can improve nocturia in men with post-radiation cystitis: results of a prospective pilot study. BMC Urology, 2015, 15, 65.	1.4	20
49	Predictors of Quality of Life after Radical Treatment for Prostate Cancer. Urologia Internationalis, 2008, 80, 231-236.	1.3	19
50	Entropic One-Class Classifiers. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3187-3200.	11.3	19
51	Multifractal characterization of protein contact networks. Physica A: Statistical Mechanics and Its Applications, 2015, 428, 302-313.	2.6	19
52	Data-driven detrending of nonstationary fractal time series with echo state networks. Information Sciences, 2017, 382-383, 359-373.	6.9	19
53	A new Granular Computing approach for sequences representation and classification. , 2012, , .		18
54	Two density-based k-means initialization algorithms for non-metric data clustering. Pattern Analysis and Applications, 2016, 19, 745-763.	4.6	18

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55	Change Detection in Graph Streams by Learning Graph Embeddings on Constant-Curvature Manifolds. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1856-1869.	11.3	18
56	Hierarchical Representation Learning in Graph Neural Networks With Node Decimation Pooling. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2195-2207.	11.3	18
57	Practice patterns for prostate cancer in nine central and northern Italy radiation oncology centers: a survey including 1759 patients treated during two decades (1980â€"1998). International Journal of Radiation Oncology Biology Physics, 2002, 52, 1310-1319.	0.8	17
58	Interval Type-2 Fuzzy Set Reconstruction Based on Fuzzy Information-Theoretic Kernels. IEEE Transactions on Fuzzy Systems, 2015, 23, 1014-1029.	9.8	17
59	Echo State Networks with Self-Normalizing Activations on the Hyper-Sphere. Scientific Reports, 2019, 9, 13887.	3.3	17
60	Distinguishability of interval type-2 fuzzy sets data by analyzing upper and lower membership functions. Applied Soft Computing Journal, 2014, 17, 79-89.	7.2	16
61	Stereotactic Body Radiotherapy with Cyberknife for Cardiac Malignancies. Tumori, 2015, 101, 294-297.	1.1	16
62	Characterization of Graphs for Protein Structure Modeling and Recognition of Solubility. Current Bioinformatics, 2016, 11, 106-114.	1.5	16
63	A generative model for protein contact networks. Journal of Biomolecular Structure and Dynamics, 2016, 34, 1441-1454.	3.5	16
64	Right-side-stretched multifractal spectra indicate small-worldness in networks. Communications in Nonlinear Science and Numerical Simulation, 2018, 57, 231-245.	3.3	16
65	Late solitary metastasis of cutaneous malignant melanoma presenting as abnormal uterine bleeding. Journal of Obstetrics and Gynaecology Research, 2008, 34, 731-734.	1.3	15
66	Breast Cancer Following Hodgkinâ€™s Disease: The Experience of the University of Florence. Breast Journal, 2010, 16, 290-296.	1.0	15
67	The STYRO 2011 project: a survey on perceived quality of training among young Italian radiation oncologists. Medical Oncology, 2013, 30, 729.	2.5	15
68	Adversarial autoencoders with constant-curvature latent manifolds. Applied Soft Computing Journal, 2019, 81, 105511.	7.2	15
69	Concurrent Cyclophosphamide, Methotrexate, and 5-Fluorouracil Chemotherapy and Radiotherapy for Early Breast Carcinoma. International Journal of Radiation Oncology Biology Physics, 2008, 71, 705-709.	0.8	14
70	The deep kernelized autoencoder. Applied Soft Computing Journal, 2018, 71, 816-825.	7.2	14
71	Learn to synchronize, synchronize to learn. Chaos, 2021, 31, 083119.	2.5	14
72	Axillary ultrasound scanning in the follow-up of breast cancer patients undergoing sentinel node biopsy. Breast, 2007, 16, 190-196.	2.2	13

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73	Large-Muscle Endometriosis Involving the Adductor Tight Compartment: Case Report. Journal of Minimally Invasive Gynecology, 2010, 17, 258-261.	0.6	13
74	Discrimination and Characterization of Parkinsonian Rest Tremors by Analyzing Long-Term Correlations and Multifractal Signatures. IEEE Transactions on Biomedical Engineering, 2016, 63, 2243-2249.	4.2	13
75	Toward a multilevel representation of protein molecules: Comparative approaches to the aggregation/folding propensity problem. Information Sciences, 2016, 326, 134-145.	6.9	13
76	Data granulation by the principles of uncertainty. Pattern Recognition Letters, 2015, 67, 113-121.	4.2	12
77	Operator-Dependent Reproducibility of Size Measurements of Small Phantoms and Lung Nodules Examined With Low-Dose Thin-Section Computed Tomography. Investigative Radiology, 2006, 41, 831-839.	6.2	11
78	EORTC radiation proctitis-specific quality of life module â€" Pretesting in four European countries. Radiotherapy and Oncology, 2010, 97, 294-300.	0.6	11
79	A strategy for young members within national radiation oncology societies: the Italian experience (AIRO Giovani group). Reports of Practical Oncology and Radiotherapy, 2012, 17, 259-261.	0.6	11
80	Surface imaging, portal imaging, and skin marker set-up vs. CBCT for radiotherapy of the thorax and pelvis. Strahlentherapie Und Onkologie, 2015, 191, 726-733.	2.0	11
81	Analysis of heat kernel highlights the strongly modular and heat-preserving structure of proteins. Physica A: Statistical Mechanics and Its Applications, 2016, 441, 199-214.	2.6	11
82	Phase III randomized multicenter study on the effects of adjuvant CMF in patients with node-negative, rapidly proliferating breast cancer: twelve-year results and retrospective subgroup analysis. Breast Cancer Research and Treatment, 2008, 108, 259-264.	2.5	10
83	Parallel algorithms for tensor product-based inexact graph matching. , 2012, , .		10
84	Renal Cell Carcinoma Metastatic to the Breast and Breast Cancer Metastatic to the Kidney: Two Rare Solitary Metastases. Breast Journal, 2005, 11, 351-352.	1.0	9
85	Matching general type-2 fuzzy sets by comparing the vertical slices. , 2013, , .		9
86	An interpretable graph-based image classifier. , 2014, , .		9
87	Oral Lapacho-Based Medication: An Easy, Safe, and Feasible Support to Prevent and/or Reduce Oral Mucositis During Radiotherapy for Head and Neck Cancer. Nutrition and Cancer, 2015, 67, 1249-1254.	2.0	9
88	The echo index and multistability in input-driven recurrent neural networks. Physica D: Nonlinear Phenomena, 2020, 412, 132609.	2.8	9
89	Isolated chest wall implantation of non-small cell lung cancer after fine-needle aspiration: a case report and review of the literature. Tumori, 2012, 98, 126e-129e.	1.1	9
90	Multifractal cross-correlation effects in two-variable time series of complex network vertex observables. Physical Review E, 2016, 94, 042307.	2.1	8

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91	Classification of Type-2 Fuzzy Sets Represented as Sequences of Vertical Slices. IEEE Transactions on Fuzzy Systems, 2016, 24, 1022-1034.	9.8	8
92	Therapeutic usability of two different fiducial gold markers for robotic stereotactic radiosurgery of liver malignancies: A pilot study. World Journal of Hepatology, 2016, 8, 731.	2.0	8
93	Combining Graph Seriation and Substructures Mining for Graph Recognition. Advances in Intelligent Systems and Computing, 2013, , 79-91.	0.6	7
94	Fault recognition in smart grids by a one-class classification approach. , 2014, , .		7
95	Four-dimensional computed tomography in accelerated partial breast irradiation planning: single series from a phase III trial. Radiologia Medica, 2015, 120, 1078-1082.	7.7	7
96	Prognostic factors in patients with locally advanced head and neck cancer treated with concurrent radiochemotherapy. Radiologia Medica, 2016, 121, 229-237.	7.7	7
97	An agent-based algorithm exploiting multiple local dissimilarities for clusters mining and knowledge discovery. Soft Computing, 2017, 21, 1347-1369.	3.6	7
98	Alternating intravenous and oral vinorelbine plus epirubicin with pegfilgrastim as neoadjuvant treatment of locally advanced breast cancer. Anti-Cancer Drugs, 2006, 17, 1081-1085.	1.4	6
99	A dissimilarity-based classifier for generalized sequences by a granular computing approach. , 2013, , .		6
100	Predictive Factors for Additional Non-Sentinel Lymph Node Involvement in Breast Cancer Patients with One Positive Sentinel Node. Tumori, 2015, 101, 78-83.	1.1	6
101	A convergent and fully distributable SVMs training algorithm. , 2016, , .		6
102	On the Long-Term Correlations and Multifractal Properties of Electric Arc Furnace Time Series. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650007.	1.7	6
103	A CHARACTERIZATION OF THE EDGE OF CRITICALITY IN BINARY ECHO STATE NETWORKS. , 2018, , .		6
104	Input-to-State Representation in Linear Reservoirs Dynamics. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4598-4609.	11.3	6
105	Data-Driven Prediction of Freezing of Gait Events From Stepping Data. Frontiers in Medical Technology, 2020, 2, 581264.	2.5	6
106	Dissimilarity space embedding of labeled graphs by a clustering-based compression procedure. , 2013, , .		5
107	Impact of age on cytotoxic-induced ovarian failure in breast cancer treated with adjuvant chemotherapy and triptorelin. Future Oncology, 2016, 12, 625-635.	2.4	5
108	Recent advances in de-intensification of radiotherapy in elderly cancer patients. F1000Research, 2020, 9, 447.	1.6	5

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109	A case of metachronous double primary neuroendocrine cancer in pancreas/ileum and uterine cervix. Upsala Journal of Medical Sciences, 2012, 117, 453-456.	0.9	4
110	Aprepitant as prophylaxis of chemotherapy-induced nausea and vomiting in anthracyclines and cyclophosphamide-based regimen for adjuvant breast cancer. Medical Oncology, 2015, 32, 80.	2.5	4
111	In Regard to Vaidya etÂal. International Journal of Radiation Oncology Biology Physics, 2015, 92, 960-961.	0.8	4
112	Safety of eribulin mesylate and concomitant radiotherapy for metastatic breast cancer: a single-center experience. Future Oncology, 2016, 12, 1117-1124.	2.4	4
113	Detecting changes in sequences of attributed graphs. , 2017, , .		4
114	Management of Stage I Testicular Seminoma Over a Period of 49 Years. Onkologie, 2011, 34, 510-514.	0.8	3
115	Aggregating &#x03B1;-planes for Type-2 fuzzy set matching. , 2013, , .		3
116	One-Class Classifiers Based on Entropic Spanning Graphs. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2846-2858.	11.3	3
117	Designing Labeled Graph Classifiers by Exploiting the RÃ©nyi Entropy of the Dissimilarity Representation. Entropy, 2017, 19, 216.	2.2	3
118	Change-Point Methods on a Sequence of Graphs. IEEE Transactions on Signal Processing, 2019, 67, 6327-6341.	5.3	3
119	In Regard to Boero etÂal. International Journal of Radiation Oncology Biology Physics, 2016, 95, 855-856.	0.8	2
120	Critical echo state network dynamics by means of Fisher information maximization. , 2017, , .		2
121	Anomaly and Change Detection in Graph Streams through Constant-Curvature Manifold Embeddings. , 2018, , .		2
122	Classifying sequences by the optimized dissimilarity space embedding approach: A case study on the solubility analysis of the E. coli proteome. Journal of Intelligent and Fuzzy Systems, 2015, 28, 2725-2733.	1.4	1
123	Fractal Geometry Meets Computational Intelligence: Future Perspectives. Springer Series in Computational Neuroscience, 2016, , 567-580.	0.3	1
124	One-class classification through mutual information minimization. , 2016, , .		1
125	Time Series Kernel Similarities for Predicting Paroxysmal Atrial Fibrillation from ECGs. , 2018, , .		1
126	On the Interpretation and Characterization of Echo State Networks Dynamics: A Complex Systems Perspective. Studies in Computational Intelligence, 2018, , 143-167.	0.9	1

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127	Abstract S5-03: Accelerated partial breast irradiation using intensity modulated radiotherapy versus whole breast irradiation: 5-year survival results of a phase 3 randomized trial. , 2015, , .		1
128	In Reply to Drs. Voogd and van der Sangen. International Journal of Radiation Oncology Biology Physics, 2010, 77, 316.	0.8	0
129	Matching of time-varying labeled graphs. , 2013, , .		0
130	On Multiscaling of Parkinsonian Rest Tremor Signals and Their Classification. Springer Series in Computational Neuroscience, 2016, , 431-443.	0.3	0
131	Abstract P1-15-21: Safety of eribulin mesylate and concomitant palliative radiotherapy for metastatic breast cancer: A single-center experience. , 2015, , .		0
132	Hyper-spherical Reservoirs for Echo State Networks. Lecture Notes in Computer Science, 2019, , 89-93.	1.3	0