

# Yalin Zheng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138  
papers

2,519  
citations

27  
h-index

46  
g-index

154  
ext. papers

3,384  
ext. citations

3.6  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
138	Informed Consent In Facial Photograph Publishing: A Cross-sectional Pilot Study To Determine The Effectiveness Of Deidentification Methods.. <i>Journal of Empirical Research on Human Research Ethics</i> , <b>2022</b> , 15562646221075459	1.6	0
137	Machine learning-based predictions of dietary restriction associations across ageing-related genes.. <i>BMC Bioinformatics</i> , <b>2022</b> , 23, 10	3.6	0
136	Artificial intelligence utilising corneal confocal microscopy for the diagnosis of peripheral neuropathy in diabetes mellitus and prediabetes. <i>Diabetologia</i> , <b>2021</b> , 1	10.3	5
135	Graph-based Region and Boundary Aggregation for Biomedical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , PP,	11.7	7
134	ROSE: A Retinal OCT-Angiography Vessel Segmentation Dataset and New Model. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 928-939	11.7	40
133	Predictive Association of Pre-Operative Defect Areas in the Outer Retinal Layers With Visual Acuity in Macular Hole Surgery. <i>Translational Vision Science and Technology</i> , <b>2021</b> , 10, 7	3.3	1
132	3D Vessel Reconstruction In Oct-Angiography Via Depth Map Estimation <b>2021</b> ,		3
131	Imaging of vascular abnormalities in ocular surface disease. <i>Survey of Ophthalmology</i> , <b>2021</b> ,	6.1	2
130	Topographical Response of Retinal Neovascularization to Aflibercept or Panretinal Photocoagulation in Proliferative Diabetic Retinopathy: Post Hoc Analysis of the CLARITY Randomized Clinical Trial. <i>JAMA Ophthalmology</i> , <b>2021</b> , 139, 501-507	3.9	1
129	Accuracy of a Machine-Learning Algorithm for Detecting and Classifying Choroidal Neovascularization on Spectral-Domain Optical Coherence Tomography. <i>Journal of Personalized Medicine</i> , <b>2021</b> , 11,	3.6	1
128	Keratoconus detection of changes using deep learning of colour-coded maps. <i>BMJ Open Ophthalmology</i> , <b>2021</b> , 6, e000824	3.2	2
127	CS-Net: Deep learning segmentation of curvilinear structures in medical imaging. <i>Medical Image Analysis</i> , <b>2021</b> , 67, 101874	15.4	37
126	Learning Unsupervised Parameter-Specific Affine Transformation for Medical Images Registration. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 24-34	0.9	4
125	Guided Adversarial Adaptation Network for Retinal and Choroidal Layer Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 82-91	0.9	
124	End-to-End Deep Learning Vector Autoregressive Prognostic Models to Predict Disease Progression with Uneven Time Intervals. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 517-531	0.9	0
123	TransBridge: A Lightweight Transformer for Left Ventricle Segmentation in Echocardiography. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 63-72	0.9	2
122	Motif Based Feature Vectors: Towards a Homogeneous Data Representation for Cardiovascular Diseases Classification. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 235-241	0.9	2

121	Cross-Domain Depth Estimation Network for 3D Vessel Reconstruction in OCT Angiography. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 13-23	0.9	1
120	A pipeline to evaluate inhibitors of the <i>Pseudomonas aeruginosa</i> exotoxin U. <i>Biochemical Journal</i> , <b>2021</b> , 478, 647-668	3.8	6
119	Spatial Uncertainty-Aware Semi-Supervised Crowd Counting <b>2021</b> ,		8
118	Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 2725-2737	11.7	16
117	Quasi-tomography by free space line field spectral domain optical coherence reflectometry. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 065203	2	1
116	Deep-Channel uses deep neural networks to detect single-molecule events from patch-clamp data. <i>Communications Biology</i> , <b>2020</b> , 3, 3	6.7	13
115	Corrections to Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy[] <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 3758-3758	11.7	0
114	Simultaneous optical coherence tomography and Scheimpflug imaging using the same incident light. <i>Optics Express</i> , <b>2020</b> , 28, 39660-39676	3.3	3
113	A Novel Deep Learning Based OCTA De-striping Method. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 189-197	0.3	0
112	Joint Destriping and Segmentation of OCTA Images. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 423-435	0.3	
111	AI-Based Method for Detecting Retinal Haemorrhage in Eyes with Malarial Retinopathy. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 439-449	0.3	0
110	Spatial Modelling of Retinal Thickness in Images from Patients with Diabetic Macular Oedema. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 114-126	0.3	
109	Deep Vectorization Convolutional Neural Networks for Denoising in Mammogram Using Enhanced Image. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 220-227	0.3	
108	DAISY Descriptors Combined with Deep Learning to Diagnose Retinal Disease from High Resolution 2D OCT Images. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 489-496	0.3	0
107	Automated Corneal Nerve Segmentation Using Weighted Local Phase Tensor. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 459-469	0.3	
106	Improving Fetal Head Contour Detection by Object Localisation with Deep Learning. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 142-150	0.3	7
105	Regression of Instance Boundary by Aggregated CNN and GCN. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 190-207	0.9	10
104	Cycle Structure and Illumination Constrained GAN for Medical Image Enhancement. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 667-677	0.9	8

103	CNN-GCN Aggregation Enabled Boundary Regression for Biomedical Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 352-362	0.9	13
102	Classification of Retinal Vessels into Artery-Vein in OCT Angiography Guided by Fundus Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 117-127	0.9	4
101	An artificial intelligence-based deep learning algorithm for the diagnosis of diabetic neuropathy using corneal confocal microscopy: a development and validation study. <i>Diabetologia</i> , <b>2020</b> , 63, 419-430	10.3	54
100	Development and validation of a novel prognostic model for predicting AMD progression using longitudinal fundus images. <i>BMJ Open Ophthalmology</i> , <b>2020</b> , 5, e000569	3.2	6
99	Corneal nerve tortuosity grading via ordered weighted averaging-based feature extraction. <i>Medical Physics</i> , <b>2020</b> , 47, 4983-4996	4.4	11
98	Cooperative Low-Rank Models for Removing Stripe Noise From OCTA Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 3480-3490	7.2	1
97	Spatial and spatio-temporal statistical analyses of retinal images: a review of methods and applications. <i>BMJ Open Ophthalmology</i> , <b>2020</b> , 5, e000479	3.2	
96	Introducing the GEV Activation Function for Highly Unbalanced Data to Develop COVID-19 Diagnostic Models. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 2776-2786	7.2	17
95	Piloting a Deep Learning Model for Predicting Nuclear BAP1 Immunohistochemical Expression of Uveal Melanoma from Hematoxylin-and-Eosin Sections. <i>Translational Vision Science and Technology</i> , <b>2020</b> , 9, 50	3.3	12
94	Retinal Vascular Network Topology Reconstruction and Artery/Vein Classification via Dominant Set Clustering. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 341-356	11.7	25
93	Associations with Corneal Hysteresis in a Population Cohort: Results from 96 010 UK Biobank Participants. <i>Ophthalmology</i> , <b>2019</b> , 126, 1500-1510	7.3	14
92	Accurate, fast, data efficient and interpretable glaucoma diagnosis with automated spatial analysis of the whole cup to disc profile. <i>PLoS ONE</i> , <b>2019</b> , 14, e0209409	3.7	16
91	Differentiating Generic versus Branded Pharmaceutical Tablets Using Ultra-High-Resolution Optical Coherence Tomography. <i>Coatings</i> , <b>2019</b> , 9, 326	2.9	3
90	Line-Field Optical Coherence Tomography as a tool for In vitro characterization of corneal biomechanics under physiological pressures. <i>Scientific Reports</i> , <b>2019</b> , 9, 6321	4.9	6
89	Application of SPF moisturisers is inferior to sunscreens in coverage of facial and eyelid regions. <i>PLoS ONE</i> , <b>2019</b> , 14, e0212548	3.7	3
88	Automated retinal lesion detection via image saliency analysis. <i>Medical Physics</i> , <b>2019</b> , 46, 4531-4544	4.4	4
87	Sub-surface imaging of soiled cotton fabric using full-field optical coherence tomography. <i>Optics Express</i> , <b>2019</b> , 27, 13951-13964	3.3	5
86	Dictionary Learning Informed Deep Neural Network with Application to OCT Images. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 1-8	0.9	

85	2D transform-domain Fourier filters for eliminating microsaccade noise in en face optical coherence tomography angiography <b>2019</b> ,		1
84	CS-Net: Channel and Spatial Attention Network for Curvilinear Structure Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 721-730	0.9	56
83	Exploiting Reliability-Guided Aggregation for the Assessment of Curvilinear Structure Tortuosity. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 12-20	0.9	3
82	Learning Active Contour Models for Medical Image Segmentation <b>2019</b> ,		64
81	<b>2019</b> ,		7
80	Drusen and macular degeneration <b>2019</b> , 245-272		3
79	Detecting Change in Conjunctival Hyperemia Using a Pixel Densitometry Index. <i>Ocular Immunology and Inflammation</i> , <b>2019</b> , 27, 276-281	2.8	3
78	Automatic 2-D/3-D Vessel Enhancement in Multiple Modality Images Using a Weighted Symmetry Filter. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 438-450	11.7	60
77	Multiscale sequential convolutional neural networks for simultaneous detection of fovea and optic disc. <i>Biomedical Signal Processing and Control</i> , <b>2018</b> , 40, 91-101	4.9	62
76	Automatic Detection and Distinction of Retinal Vessel Bifurcations and Crossings in Colour Fundus Photography. <i>Journal of Imaging</i> , <b>2018</b> , 4, 4	3.1	9
75	Dense Fully Convolutional Segmentation of the Optic Disc and Cup in Colour Fundus for Glaucoma Diagnosis. <i>Symmetry</i> , <b>2018</b> , 10, 87	2.7	80
74	Improving the Resolution of Retinal OCT with Deep Learning. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 325-332	0.3	1
73	Imaging of Corneal Neovascularization: Optical Coherence Tomography Angiography and Fluorescence Angiography <b>2018</b> , 59, 1263-1269		31
72	Retinal vascular topology estimation via dominant sets clustering <b>2018</b> ,		4
71	Supercontinuum ultra-high resolution line-field OCT; experimental spectrograph comparison and comparison with current clinical OCT systems by the imaging of a human cornea <b>2018</b> ,		1
70	Identification of Feeder Vessels in Ocular Surface Neoplasia Using Indocyanine Green Angiography. <i>Current Eye Research</i> , <b>2018</b> , 43, 163-169	2.9	6
69	Uniqueness-Driven Saliency Analysis for Automated Lesion Detection with Applications to Retinal Diseases. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 109-118	0.9	12
68	Retinal Artery and Vein Classification via Dominant Sets Clustering-Based Vascular Topology Estimation. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 56-64	0.9	24

67	Neurovascular sequestration in paediatric malaria is visible clinically in the retina. <i>ELife</i> , <b>2018</b> , 7,	8.9	18
66	Measurement of the Intertablet Coating Uniformity of a Pharmaceutical Pan Coating Process With Combined Terahertz and Optical Coherence Tomography In-Line Sensing. <i>Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 106, 1075-1084	3.9	47
65	Saliency driven vasculature segmentation with infinite perimeter active contour model. <i>Neurocomputing</i> , <b>2017</b> , 259, 201-209	5.4	42
64	A compactness based saliency approach for leakages detection in fluorescein angiogram. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2017</b> , 8, 1971-1979	3.8	1
63	UV imaging reveals facial areas that are prone to skin cancer are disproportionately missed during sunscreen application. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185297	3.7	18
62	Fast Blur Detection and Parametric Deconvolution of Retinal Fundus Images. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 194-201	0.9	3
61	Spatial statistical modelling of capillary non-perfusion in the retina. <i>Scientific Reports</i> , <b>2017</b> , 7, 16792	4.9	4
60	Automated layer segmentation of macular OCT images via graph-based SLIC superpixels and manifold ranking approach. <i>Computerized Medical Imaging and Graphics</i> , <b>2017</b> , 55, 42-53	7.6	17
59	Volumetric image classification using homogeneous decomposition and dictionary learning: A study using retinal optical coherence tomography for detecting age-related macular degeneration. <i>Computerized Medical Imaging and Graphics</i> , <b>2017</b> , 55, 113-123	7.6	8
58	Intensity and Compactness Enabled Saliency Estimation for Leakage Detection in Diabetic and Malarial Retinopathy. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 51-63	11.7	44
57	A Novel Choroid Segmentation Method for Retinal Diagnosis Using Deep Learning <b>2017</b> ,		4
56	FCNN: Fourier Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 786-798	0.9	26
55	Automated glaucoma diagnosis using deep learning approach <b>2017</b> ,		32
54	Deformation velocity imaging using optical coherence tomography and its applications to the cornea. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 5579-5593	3.5	10
53	Non-destructive analysis of flake properties in automotive paints with full-field optical coherence tomography and 3D segmentation. <i>Optics Express</i> , <b>2017</b> , 25, 18614-18628	3.3	19
52	Scan-Less Line Field Optical Coherence Tomography, with Automatic Image Segmentation, as a Measurement Tool for Automotive Coatings. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 351	2.6	10
51	Automatic Detection and Identification of Retinal Vessel Junctions in Colour Fundus Photography. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 27-37	0.3	1
50	Applications of optical coherence tomography in the non-contact assessment of automotive paints <b>2017</b> ,		2

49	High resolution corneal and single pulse imaging with line field spectral domain optical coherence tomography. <i>Optics Express</i> , <b>2016</b> , 24, 12395-405	3.3	20
48	Convolutional Neural Networks for Diabetic Retinopathy. <i>Procedia Computer Science</i> , <b>2016</b> , 90, 200-205	1.6	338
47	An effective variational model for simultaneous reconstruction and segmentation of blurred images. <i>Journal of Algorithms and Computational Technology</i> , <b>2016</b> , 10, 244-264	0.7	4
46	Automatic Feature Learning Method for Detection of Retinal Landmarks <b>2016</b> ,		4
45	Reconstruction of 3D surface maps from anterior segment optical coherence tomography images using graph theory and genetic algorithms. <i>Biomedical Signal Processing and Control</i> , <b>2016</b> , 25, 91-98	4.9	30
44	Nondestructive analysis of automotive paints with spectral domain optical coherence tomography. <i>Applied Optics</i> , <b>2016</b> , 55, 3695-700	0.2	22
43	Intra-retinal layers segmentation of macular OCT images based on the graph optimal approach <b>2016</b> ,		1
42	Studying the pharmaceutical film coating process with terahertz sensing, optical coherence tomography and numerical modelling <b>2016</b> ,		2
41	Automated Artery-Vein Classification in Fundus Color Images. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 228-237	0.3	1
40	Corneal angiography for guiding and evaluating fine-needle diathermy treatment of corneal neovascularization. <i>Ophthalmology</i> , <b>2015</b> , 122, 1079-84	7.3	38
39	Fast segmentation of anterior segment optical coherence tomography images using graph cut. <i>Eye and Vision (London, England)</i> , <b>2015</b> , 2, 1	4.9	30
38	Automated Vessel Segmentation Using Infinite Perimeter Active Contour Model with Hybrid Region Information with Application to Retinal Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1797-807	11.7	258
37	Automated detection of leakage in fluorescein angiography images with application to malarial retinopathy. <i>Scientific Reports</i> , <b>2015</b> , 5, 10425	4.9	23
36	Automated Detection of Vessel Abnormalities on Fluorescein Angiogram in Malarial Retinopathy. <i>Scientific Reports</i> , <b>2015</b> , 5, 11154	4.9	14
35	Angiographic and In Vivo Confocal Microscopic Characterization of Human Corneal Blood and Presumed Lymphatic Neovascularization: A Pilot Study. <i>Cornea</i> , <b>2015</b> , 34, 1459-65	3.1	18
34	Pharmacokinetics of Meropenem for Use in Bacterial Keratitis <b>2015</b> , 56, 5731-8		6
33	Retinal vessel segmentation: an efficient graph cut approach with retinex and local phase. <i>PLoS ONE</i> , <b>2015</b> , 10, e0122332	3.7	53
32	Standardization of choroidal thickness measurements using enhanced depth imaging optical coherence tomography. <i>International Journal of Ophthalmology</i> , <b>2015</b> , 8, 484-91	1.4	8

31	A comprehensive texture segmentation framework for segmentation of capillary non-perfusion regions in fundus fluorescein angiograms. <i>PLoS ONE</i> , <b>2014</b> , 9, e93624	3.7	27
30	Measurement and computer modeling of temporary arrangements of polygonal actin structures in trabecular meshwork cells which consist of cross-linked actin networks and polygonal actin arrangements. <i>Journal of Ocular Pharmacology and Therapeutics</i> , <b>2014</b> , 30, 224-36	2.6	3
29	Dictionary Learning-Based Volumetric Image Classification for the Diagnosis of Age-Related Macular Degeneration. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 272-284	0.9	2
28	A general model for multiphase texture segmentation and its applications to retinal image analysis. <i>Biomedical Signal Processing and Control</i> , <b>2013</b> , 8, 374-381	4.9	8
27	Classification of volumetric retinal images using overlapping decomposition and tree analysis <b>2013</b> ,		2
26	Computerized assessment of intraretinal and subretinal fluid regions in spectral-domain optical coherence tomography images of the retina. <i>American Journal of Ophthalmology</i> , <b>2013</b> , 155, 277-286.e1	4.9	48
25	Age-Related Macular Degeneration Screening Using Data Mining Approaches <b>2013</b> ,		1
24	Underwater Environment SDAP Method Using Multi Single-Beam Sonars. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-17	1.1	
23	Obstacle Avoidance for Unmanned Undersea Vehicle in Unknown Unstructured Environment. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-12	1.1	10
22	Automatic segmentation of anterior segment optical coherence tomography images. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 56003	3.5	28
21	Automated segmentation of the choroid in retinal optical coherence tomography images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 5869-72	0.9	12
20	Marginal corneal vascular arcades <b>2013</b> , 54, 7470-7		20
19	Hierarchical Detection of Hard Exudates in Color Retinal Images. <i>Journal of Software</i> , <b>2013</b> , 8,	3	2
18	Data mining techniques for the screening of age-related macular degeneration. <i>Knowledge-Based Systems</i> , <b>2012</b> , 29, 83-92	7.3	31
17	Quantifying changes in corneal neovascularization using fluorescein and indocyanine green angiography. <i>American Journal of Ophthalmology</i> , <b>2012</b> , 154, 850-858.e2	4.9	41
16	Automated "disease/no disease" grading of age-related macular degeneration by an image mining approach <b>2012</b> , 53, 8310-8		63
15	Volumetric image mining based on decomposition and graph analysis: An application to retinal optical coherence tomography <b>2012</b> ,		2
14	Imaging and evaluation of corneal vascularization using fluorescein and indocyanine green angiography <b>2012</b> , 53, 650-8		43



13	A Hierarchical Algorithm for Multiphase Texture Image Segmentation. <i>ISRN Signal Processing</i> , <b>2012</b> , 2012, 1-11		8
12	Time Series Case Based Reasoning for Image Categorisation. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 423-436	0.9	4
11	Image Classification for Age-related Macular Degeneration Screening Using Hierarchical Image Decompositions and Graph Mining. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 65-80	0.9	7
10	Retinal Image Classification for the Screening of Age-Related Macular Degeneration <b>2011</b> , 325-338		9
9	Automated segmentation of foveal avascular zone in fundus fluorescein angiography <b>2010</b> , 51, 3653-9		59
8	Retinal image classification using a histogram based approach <b>2010</b> ,		7
7	Image Classification Using Histograms and Time Series Analysis: A Study of Age-Related Macular Degeneration Screening in Retinal Image Data. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 197-209	0.9	3
6	Simultaneous feature selection and classification based on genetic algorithms: an application to colonic polyp detection <b>2008</b> ,		1
5	Learning from imbalanced data: a comparative study for colon CAD <b>2008</b> ,		1
4	Reduction of false positives in polyp detection using weighted support vector machines. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 4433-6		10
3	Automated segmentation of lumbar vertebrae in digital videofluoroscopic images. <i>IEEE Transactions on Medical Imaging</i> , <b>2004</b> , 23, 45-52	11.7	48
2	Lumbar spine visualisation based on kinematic analysis from videofluoroscopic imaging. <i>Medical Engineering and Physics</i> , <b>2003</b> , 25, 171-9	2.4	26
1	Artificial intelligence to detect abnormal heart rhythm from scanned electrocardiogram tracings. <i>Journal of Arrhythmia</i> ,	1.5	1