

# Simple Smartphone-Based Guiding System for Visually

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Android Smartphone Based Visual Object Recognition for Visually Impaired Using Deep Learning. , 2018, , ,		16
2	Multi-Sensor Obstacle Detection System Via Model-Based State-Feedback Control in Smart Cane Design for the Visually Challenged. IEEE Access, 2018, 6, 64182-64192.	2.6	23
3	Prototype of Mobile Device to Contribute to Urban Mobility of Visually Impaired People. Big Data and Cognitive Computing, 2018, 2, 38.	2.9	0
4	Noise Source Visualization Using a Digital Voice Recorder and Low-Cost Sensors. Sensors, 2018, 18, 1076.	2.1	1
5	Navigation Systems for the Blind and Visually Impaired: Past Work, Challenges, and Open Problems. Sensors, 2019, 19, 3404.	2.1	110
6	Wearable Travel Aid for Environment Perception and Navigation of Visually Impaired People. Electronics (Switzerland), 2019, 8, 697.	1.8	65
7	Edge Based Obstacle Detection Model Focused on Indoor Floor-Based Obstacles. , 2019, , ,		0
8	Smart Cane: Public Transportation Code Detection and Identification System for Visually Impaired. , 2019, , ,		1
9	Edge Based Obstacle Detection Model for Outdoor Type Obstacles. , 2019, , ,		0
10	Towards Smartphone-Based Navigation for Visually Impaired People. Advances in Intelligent Systems and Computing, 2019, , 366-373.	0.5	2
11	Developing Walking Assistants for Visually Impaired People: A Review. IEEE Sensors Journal, 2019, 19, 2814-2828.	2.4	113
12	Better campus life for visually impaired University students: intelligent social walking system with beacon and assistive technologies. Wireless Networks, 2020, 26, 4789-4803.	2.0	10
13	Enhancing perception for the visually impaired with deep learning techniques and low-cost wearable sensors. Pattern Recognition Letters, 2020, 137, 27-36.	2.6	44
14	Digital Enhancement of Cultural Experience and Accessibility for the Visually Impaired. EAI/Springer Innovations in Communication and Computing, 2020, , 237-271.	0.9	12
15	Techniques for Constructing Indoor Navigation Systems for the Visually Impaired: A Review. IEEE Transactions on Human-Machine Systems, 2020, 50, 492-506.	2.5	18
16	Tools and Technologies for Blind and Visually Impaired Navigation Support: A Review. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2022, 39, 3-18.	2.1	86
17	EYERIS: A Virtual Eye to Aid the Visually Impaired. , 2020, , ,		4
18	VIZIYON: Assistive handheld device for visually challenged. Procedia Computer Science, 2020, 171, 2486-2492.	1.2	8

#	ARTICLE	IF	CITATIONS
19	A Systematic Literature Review of the Mobile Application for Object Recognition for Visually Impaired People. , 2020, , .		2
20	Visually Impaired Aid using Convolutional Neural Networks, Transfer Learning, and Particle Competition and Cooperation. , 2020, , .		4
21	Multimodal Navigation Systems for Users with Visual Impairmentsâ€”A Review and Analysis. Multimodal Technologies and Interaction, 2020, 4, 73.	1.7	9
22	Deep Learning based Object Detection and Recognition Framework for the Visually-Impaired. , 2020, , .		8
23	A survey on Assistive Technology for visually impaired. Internet of Things (Netherlands), 2020, 11, 100188.	4.9	65
24	Uncertainty-Aware Visual Perception System for Outdoor Navigation of the Visually Challenged. Sensors, 2020, 20, 2385.	2.1	19
25	Object detection and recognition: using deep learning to assist the visually impaired. Disability and Rehabilitation: Assistive Technology, 2021, 16, 280-288.	1.3	16
26	On Supporting University Communities in Indoor Wayfinding: An Inclusive Design Approach. Sensors, 2021, 21, 3134.	2.1	8
27	A Systematic Review of Urban Navigation Systems for Visually Impaired People. Sensors, 2021, 21, 3103.	2.1	42
28	Deep learning-based application for indoor wayfinding assistance navigation. Multimedia Tools and Applications, 2021, 80, 27115-27130.	2.6	8
29	Mobile Recognition and Tracking of Objects in the Environment through Augmented Reality and 3D Audio Cues for People with Visual Impairments. , 2021, , .		3
30	Multi-functional Smart E-Glasses for Vision-Based Indoor Navigation. , 2021, , .		1
31	Sensory Substitution for the Visually Impaired: A Study on the Usability of the Sound of Vision System in Outdoor Environments. Electronics (Switzerland), 2021, 10, 1619.	1.8	5
32	Studying the Navigation Assistance System for the Visually Impaired and Blind Persons and ICT use by their Caretakers. , 2021, , .		4
34	Smartphone Navigation Support for Blind and Visually Impaired People - A Comprehensive Analysis of Potentials and Opportunities. Lecture Notes in Computer Science, 2020, , 568-583.	1.0	9
35	Designing for Blind Users. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2020, , 1-25.	0.5	2
36	Localization Technology in Health Sector: A Study of PCTS in Rajasthan. SSRN Electronic Journal, 0, , .	0.4	0
37	Obstacle Height Estimation Related to Suitable Viewpoint while Waiting for the Bus Using Color Moment Technique. International Journal of Machine Learning and Computing, 2020, 10, 495-500.	0.8	0

#	ARTICLE	IF	CITATIONS
38	Social, Medical, and Educational Applications of IoT to Assist Visually Impaired People. <i>Studies in Big Data</i> , 2021, , 195-214.	0.8	0
40	Deep Learning Based Audio Assistive System for Visually Impaired People. <i>Computers, Materials and Continua</i> , 2022, 71, 1205-1219.	1.5	3
41	Computer Vision-Based Assistive Technology for Helping Visually Impaired and Blind People Using Deep Learning Framework. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020, , 577-598.	0.4	1
42	Assisting the Visually Challenged People Using Faster RCNN with Inception ResNet V2 Based Object Detection Model. <i>Lecture Notes in Networks and Systems</i> , 2022, , 171-181.	0.5	1
43	Real-Time, CNN-Based Assistive Device for Visually Impaired People. , 2021, , .		3
44	Sensing and Navigation of Wearable Assistance Cognitive Systems for the Visually Impaired. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2023, 15, 122-133.	2.6	11
45	Recent trends in computer vision-driven scene understanding for VI/blind users: a systematic mapping. <i>Universal Access in the Information Society</i> , 2023, 22, 983-1005.	2.1	9
46	Mobile augmented reality using deep learning for visually impaired people. <i>ACM SIGACCESS Accessibility and Computing</i> , 2022, , 1-1.	0.2	1
47	A Survey on Recent Advances in AI and Vision-Based Methods for Helping and Guiding Visually Impaired People. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2308.	1.3	6
48	Vision Navigator: A Smart and Intelligent Obstacle Recognition Model for Visually Impaired Users. <i>Mobile Information Systems</i> , 2022, 2022, 1-15.	0.4	43
49	Ultrasonic Sound Guide System with Eyeglass Device for the Visually Impaired. <i>Sensors</i> , 2022, 22, 3077.	2.1	1
50	Banknote and obstacle detection system for visually impaired people. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2023, 11, 121-133.	1.3	1
51	Reliable Ultrasonic Obstacle Recognition for Outdoor Blind Navigation. <i>Technologies</i> , 2022, 10, 54.	3.0	10
52	Multiagent mobility and lifestyle recommender system for individuals with visual impairment. <i>Neuroscience Informatics</i> , 2022, 2, 100077.	2.8	1
54	An Extended Usability and UX Evaluation of a Mobile Application for the Navigation of Individuals with Blindness and Visual Impairments Outdoorsâ€”An Evaluation Framework Based on Training. <i>Sensors</i> , 2022, 22, 4538.	2.1	9
55	AviPer: assisting visually impaired people to perceive the world with visual-tactile multimodal attention network. <i>CCF Transactions on Pervasive Computing and Interaction</i> , 2022, 4, 219-239.	1.7	2
56	An exploration of smartphone use by, and support for people with vision impairment: a scoping review. <i>Disability and Rehabilitation: Assistive Technology</i> , 2024, 19, 407-432.	1.3	2
57	Range sensor-based assistive technology solutions for people with visual impairment: a review. <i>Disability and Rehabilitation: Assistive Technology</i> , 2024, 19, 576-584.	1.3	1

#	ARTICLE	IF	CITATIONS
58	DeepNAVI: A deep learning based smartphone navigation assistant for people with visual impairments. Expert Systems With Applications, 2023, 212, 118720.	4.4	15
59	Smart Glass with Multi-Functionalities for Assisting Visually Impaired People. Journal of Physics: Conference Series, 2022, 2318, 012001.	0.3	1
60	Third Eye Hand Glove Object Detection for Visually Impaired using You Only Look Once (YOLO)v4-Tiny Algorithm. , 2022, , .		5
61	The development of an augmented reality audio application for visually impaired persons. Multimedia Tools and Applications, 0, , .	2.6	1
62	CNN Based Personal Assistive System for Deaf-Blind. , 2022, , .		1
63	Pedestrian and Vehicle Detection for Visually Impaired People. Cognitive Science and Technology, 2023, , 37-51.	0.2	1
64	Identifying the walking patterns of visually impaired people by extending white cane with smartphone sensors. Multimedia Tools and Applications, 0, , .	2.6	0
65	Facilitate Access to Buildings Using a Navigation Mobile application. , 2022, , .		0
66	Framework for Object Recognition and Detection for Blind Users Using Deep Learning. Lecture Notes in Networks and Systems, 2023, , 862-870.	0.5	0
67	Convolutional Neural Networks and Ensembles for Visually Impaired Aid. Lecture Notes in Computer Science, 2023, , 520-534.	1.0	0
69	Assistance For Visually Impaired People Using Deep Learning. , 2023, , .		0
73	Blind Lane Detection and Following for Assistive Navigation of Vision Impaired People. , 2023, , .		0
74	Empowering Individuals with Visual Impairments: A Deep Learning-Based Smartphone Navigation Assistant. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 19-30.	0.5	0
78	Review of substitutive assistive tools and technologies for people with visual impairments: recent advancements and prospects. Journal on Multimodal User Interfaces, 2024, 18, 135-156.	2.0	0
79	I am the Eye - Assistive Eye. , 2023, , 209-224.		0
80	Recent advancements in indoor electronic travel aids for the blind or visually impaired: a comprehensive review of technologies and implementations. Universal Access in the Information Society, 0, , .	2.1	1