

Table 2. Detailed List of Published Literature Incorporating AI in the Subject of Walkability.

	Use, Perspective	Teaching				Learning			Inference	
		Feature	Data type			Machine Learning	Geospatial data	Imagery data	Sensor data	Robotics
			Historical data	Survey	Physical					
Adams et al. (2022)	G	B					SVI	GIS	CNN	DSS
Alfosool et al. (2022)	G	A					AI	GIS	SL	
Bandini and Gasparini (2020)	S Y	-					PD		RL	
Blečić et al. (2015a)	G	A						GIS		DSS
Blečić et al. (2015b)	G	E						AI	GIS	DSS GA
Blečić et al. (2018)	G	E						SVI		CNN
Bustos et al. (2021)	G	E					HA		DRN	
D'Orso and Migliore (2018)	G	A							GIS	DSS
Giles-Corti et al. (2014)	G	A								DSS
Gorrini & Bandini (2019)	S	A							GIS	DSS
Koo et al. (2022a)	G	B						SVI	GIS	DSS IS
Koo et al. (2022b)	G	B						SVI	GIS	SS
Kim et al. (2022)	G	E					BSD	SVI		DT
Ku et al. (2022)	D	E						SVI		CNN
Lai and Kontokosta (2018)	G	A							GIS	UCA
Lee et al. (2022)	G	E						SVI		LR, RF GBA SS
Li et al. (2020)	ST	B					TF	SVI	GIS	CNN DSS
Yunqin Li et al. (2022)	G	E						PSVI		CNN
Lucchesi et al. (2023)	G	E						SVI		DNN
Ma et al. (2021)	G	B						SVI		CNN
Miranda et al. (2021)	G	B					GPS	AI SVI		DSS SS
Nag and Goswami (2022)	G	B						DV	GIS	DSS
Ning et al. (2022)	D	E						SVI		SS
Nagata et al. (2020)	S	B						SVI	GIS	CNN DSS
Shao et al. (2021)	G	B						SVI	GIS	FCN DSS
Theodosiou et al. (2022)	G	E						SPC		CNN

Wang et al. (2019)	S	E				SVI		FCN					
Yang et al. (2022)	G	E				SVI		LR		SS			
Yin and Wang (2016)	G	E				SVI		ANN					
Yuan and Chen (2022)	G	E				SVI		CNN					
Yue et al. (2022)	G	E				SVI		CNN					
Zhao et al. (2016)	G	B				SVI		FNN					
Zhang et al. (2021)	G	E	-	-	-	SVI		CNN					
Zhou et al. (2019)	G	E				SVI		CNN					

Notes:

Aerial Image (AI), Allocentric (A), Artificial Neural Networks (ANN), Bio-Signal data (BSD), Convolutional Neural Networks (CNN), Decision Support systems (DSS), Decision Tree (DT), Deep Residual Networks (DRN), Disabled pedestrian (DP), Egocentric (E), Egocentric and Allocentric (B), Fully Convolutional Networks (FCN), Fuzzy Neural Networks (FNN), Genetic Algorithm (GA), Geographic information system (GIS), Global Positioning System (GPS), General pedestrian (G), Gradient boosting algorithms (GBA), Historical Accident statistics (HA), Instance Segmentation (IS), Logistic Regression (LR), Physiological Data (PD), Panoramic Street View Image (PSVI), Random Forest (RF), Reinforcement Learning (RL), Senior pedestrian (S), Semantic Segmentation (SS), SmartPhone Camera (SPC), Street View Image (SVI), Student pedestrian (ST), Supervised Learning (SL), Traffic Flow (TF), Unsupervised Clustering Algorithms (UCA), Youth pedestrian (Y)