Developing an Intelligent Waste Sorting System with Robotic Arm: A Step towards Green Environment [1]
Artificial Intelligence in Automated Sorting in Trash Recycling [2]
Development of Automatic Smart Waste Sorter Machine [3]
Waste Segregation Using Machine Learning (journal) [4]
Classification of Recyclables from E-Waste Stream Using Thermal Imaging-Based Technique [5]
Smart Bin Implementation for Smart City [6]
The Design and Implementation of Smart Trash Bin [7]
Intelligent Waste Separator [8]
Smart Bin: Internet-of-Things Garbage Monitoring System [9]

Paper	Name	Principle	Pros	Cons
1	Developing an	Use a robot's arm to pick trash into a	1.cheap	1.1 trash per
	Intelligent	belt and use	2.Automatic arm	operation
	Waste Sorting	- voltage sensor to detect food	3.mobile app	2.inaccurate
	System with	- IR sensor to find trash		sensors
	Robotic Arm	- inductive sensor to detect metal		
2	Artificial	Test many Machine learning	1.CNN is the	1.time
	Intelligence in	algorithms to find the best one with	most accurate	consuming
	Automated	the highest accuracy	one	2.inaccurate
	Sorting in Trash			with glass
	Recycling			
3	Development	- IR sensors for detection trash	1.cheap	1.slow
	of Automatic	- metal sensor	2.automatic	2.unable to
	Smart Waste	- glass sensor	system	classify organic
	Sorter Machine	- laser and LDR for separating paper		waste
		and transparent plastic		
4	WasteSegregati	Use raspberry pi and pi cam for	1.automatic	1.limited types
	on Using	object detection, then use a robot's	2.no sensors	of trash (2)
	Machine	arm to transfer compossible and	3.upgradable	2.awful delay
	Learning	incompossible trash into 2 bins		
	(journal)			
5	Classificationof	Use thermal imaging technique and	1.no external	1.need light
	Recyclables	SVM to classify recycle trash from	disturbance	power
	from E-Waste	electronics waste by inspecting	2. work well with	2. work only in
	Stream Using	radiation when received head from	bad condition i.e.	the specific
	Thermal	hot chamber	lot of dust	areas
	Imaging-Based			3.temp control
	Technique			in hot
				chamber

บทความที่	ชื่อบทความ	หลักการทำงาน	ข้อดี	ข้อเสีย
6	SmartBin	use level sensor to measure trash	1.simple	1.can't
	Implementatio	level in bins and GSM, IOT to send	2. real time	separate trash
	n for Smart City	SMS, GPS of full bins to trash keepers		
7	The Design and	Use Ultrasonic sensors to detect	1.cheap	1.can't
	Implementatio	trash level in bins and send SMS to	2.solar cell	separate trash
	n of Smart	report trash keepers.		
	Trash Bin			

8	IntelligentWast	Transfer images into grey scale	1.high accuracy	1.1 trash per
	e Separator	images and use servo motors to	2.simple	operation
		deliver trash into bins		2.can't work
				with irregular
				trash
9	SmartBin:	Use Ultrasonic sensors to measure	1.real time	1.can't
	Internet-of-	trash level in bins and use Thinspeak	2.IOT	separate trash
	Things Garbage	to send data via IOT		
	Monitoring			
	System			

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