Literature Review

No.	Title	Key Words	Comment
~~1~~	RESOURCE MANAGEMENT IN FOG COMPUTING BASED ON CLUSTERING	maintains **log records** of each user by monitoring their activities and **blocks** them if any **abnormal** activity is detected - authentication and bootstrap **attacks** - …	Not Selected – It's specially for privacy and security issues
2	A Multi-Objective Task Scheduling Method for Fog Computsing in Cyber-Physical-Social Services	processing time, avoiding task violations, and reducing service costs **- genetic** algorithm **- execution** time and service **cost**	Selected
~~3~~	A Multi-Objective Task Scheduling Strategy for Intelligent Production Line Based on Cloud-Fog Computing	hybrid **heuristics** - task priority - hybrid monarch butterfly optimization - improved ant colony **optimization** - task **completion** rate and **power** consumption	Not Selected – Energy based
4	An Evolutionary Algorithm for Task scheduling Problem in the Cloud-Fog environment	**makespan** and operating **costs**	Selected
~~5~~	An efficient population-based multi-objective task scheduling approach in fog computing systems	**Meta heuristic** - Whale **optimization** algorithm – **Opposition based** learning - Chaos theory - task **offloading** requests and fog **resource** limitations - Integer **Linear Programming optimization** - **time** and fog **energy**	Not Selected
6	An Intelligent Chimp Optimizer for Scheduling of IoT Application Tasks in Fog Computin	**combines** the chimp **optimization** algorithm (ChOA) and the **marine predators algorithm** (MPA) - average **makespan** time improvements for peer scheduling algorithms and improved **throughput** performance	Selected
~~7~~	Joint QoS-aware and Cost-efficient Task Scheduling for Fog-Cloud Resources in a Volunteer Computing System	computation, communication, and delay violation cost	Not Selected
~~8~~	Cost-Aware Task Scheduling in Fog-Cloud Environment	bring resources closer to the user - **latency** and **energy** – **cost** aware genetic based	Not Selected
9	Dynamic Resource Allocation for Load Balancing in Fog Environment	DRAM - **load balancing** - static **resource allocation** and dynamic **service migration**	Selected
10	Effective Task Scheduling in Critical Fog Applications	classifies them as either **critical** or noncritical - reduce **latency**, **energy** consumption, and network utilization -	Selected – it compared same algorithms as us (FCFS – SJF)

		healthcare scenarios - compared to (**FCFS**), (**SJF**), and **cloud only** approaches	
~~11~~	Energy Efficient Priority-Based Task Scheduling for Computation Offloading in Fog Computing	Prioritized Incremental **Energy** Rate - optimize network **energy** efficiency - necessity of offloading for IoT services	Not Selected – Focused on Energy
12	Fragmented Task Scheduling for Load-Balanced Fog Computing Based on Q-Learning	**RL** – privacy sensitive tasks - **load** and **performance** violation in **latency** and **security**	Selected
13	GOSH: Task Scheduling Using Deep Surrogate Models in Fog Computing Environments	**heterogeneous** fog environments - **Gradient** Based Optimization - **Heteroscedastic** Deep Surrogate Models - find an optimal trade off between greedy minimization of the mean **latency** and uncertainty reduction by employing error-based exploration - **energy** consumption, response **time**, and SLA **violations**	Selected
14	Latency-Aware Task Scheduling for IoT Applications Based on Artificial Intelligence with Partitioning in Small-Scale Fog Computing Environments	reduce scheduling **times** and service level **objectives** while introducing negligible **energy** consumption - artificial **neural networks** with **partitioning** capabilities - calculate **hyperparameters** in **parallel**	Selected
15	Multi-objective Task Scheduling Approach for Fog Computing	**integrating** the **marine predator's** algorithm with the polynomial mutation mechanism (MHMPA) - **makespan** and the carbon **emission ratio** based on the Pareto optimality	Selected
16	Online Task Scheduling for Fog Computing with Multi-Resource Fairness	deep reinforcement learning (**DRL**)	Selected – Because it uses RL, too
~~17~~	qCon: QoS-Aware Network Resource Management for Fog Computing	network **bandwidth** – **QoS** aware network **resource** management	(Perhaps) Not Selected
18	Resource Allocation for Efficient IOT Application in Fog Computing	automatic **resource** allocation – **QoS** - comparison of the previous works with **RECK** algorithm	Selected
19	Task Scheduling Algorithm Based on Improved Firework Algorithm in Fog Computing	improved **firework** algorithm - **processing** time - overall **load balancing** of fog devices	Selected

20	Task Scheduling Based on a Hybrid Heuristic Algorithm for Smart Production Line with Fog Computing	hybrid **heuristic** - **heterogeneous** task requests - **delay** and **energy** consumption, and improve **performance** metrics	Selected
21	Optimal Resource Allocation in Fog Computing for Healthcare Applications	**resource** allocation – healthcare - maximum **load balancing** - 45% decrease in **delay**, 37% reduction in **energy** consumption, and 25% decrease in network **bandwidth** consumption	Selected