























discrete multi-objective fireworks algorithm for low-carbon vehicle routing problem. *Complex System Modeling and Simulation*, 2022, 2(2): 142-155.

[19] Mahmood T, Ali Z. Analysis of Maclaurin symmetric mean operators for managing complex interval-valued q-Rung orthopair fuzzy setting and their applications. *Journal of Computational and Cognitive Engineering*, 2023, 2(2): 98-115.

[20] Mnif M G, Bouamama S. A new multi-objective firework

algorithm to solve the multimodal planning network problem. *International Journal of Applied Metaheuristic Computing (IJAMC)*, 2020, 11(4): 91-113.

[21] Wang W, Liu K, Yang C, Xu B, Ma M. Cyber physical energy optimization control design for PHEVs based on enhanced firework algorithm. *IEEE Transactions on Vehicular Technology*, 2020, 70(1): 282-291.