Abstract

Vehicle Routing problem is present in the world for decades, and some can argue for centuries. Many solutions have been proposed till date with multiple technologies. This problem tries to solve the generation of paths and the assignment of buses on these routes. The objective of this problem is to minimize the number of vehicles required and to maximize the number of demands transported by Multi Agent System with dynamic approach. This paper overviews few approaches with Multi Agent systems, and argues why MAS systems are appropriate for solving VRP's both Static and Dynamic.
References

- "Artificial Intelligence" by Rich and Knight
- "Multi Agents and Vehicle Routing Problem" by Madeti Vijay Bhargava
- Vita Graudina, Janis Grundspenkis "Technologies and Multi-Agent System Architectures for Transportation and Logistics Support: An Overview"
- "An Introduction to MultiAgent Systems - Second Edition" by Michael Wooldridge
- "Solving a Dynamic Real-Life Vehicle Routing Problem" by Asvin Goel and Volker Gruhn
- "Vehicle Routing Problem: Models and Solutions" by Liongs, Choong Yeuni, Wan Rosmanira
- "A vehicle routing problem solved by Agents" by Mª Belén Vaquerizo García
- "Improved Multi-Agent System for the Vehicle Routing Problem with Time Windows" by Zhenggang Dan, Linning Cai
- "An Agent-Based Approach to Vehicle Routing Problem" by Dariusz Barbucha and Piotr Jedrzejowicz
- Transportation Science | May 1, 2007 | Iori, Manuel; Salazar-Gonzalez, Juan-Jose; Vigo, Daniele

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