

Development of a Tour Management and Operations System with Automatic Schedule Optimization

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Abstract: This topic aims to address the problem of tour management and automatic itinerary optimization, meeting the needs of travel companies and managers. Through theoretical research on graphs and sorting algorithms, combined with experimentation using artificial intelligence technology, we build an efficient system to optimize costs, travel time, and enhance the experience for tourists. The expected results will contribute to the development of the tour management industry, providing optimal solutions for practical problems.

Keywords: Tour Management, Itinerary Optimization, Artificial Intelligence, Scheduling Algorithm, Travel Company