

**Development of Interactive Timetabling System  
with Fast Estimation of Train Congestion under Planning Timetables**

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Timetables are modified based on various results of investigations under current timetables, and timetable planners' intuition that comes from experience. But there is a problem in that it is difficult to estimate train congestion under modified timetables in a planning phase. If, in a planning phase, timetable planners can make sure that train congestion is such as they intend, timetable planners can make timetables more comfortable for passengers. Thus, in this research, we have built a new timetabling system with both user-friendly interfaces and fast estimation of train congestion under modified timetables.