ISO 37167:2021 (E)

Smart community infrastructures — Smart transportation for energy saving operation by intentionally driving slowly

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Principle of energy saving in transportation operation by modifying speed profiles of running vehicles and applicable city issues

4.1 General
4.2 Applicable city issues and United Nations SDGs

5 Adoption and implementation of smart transportation for energy saving operation

5.1 Objectives
5.2 Target transportation services
5.3 Procedure to adopt smart transportation
5.3.1 General
5.3.2 Selection of transportation services where smart transportation is applied
5.3.3 Scheduling of transportation dispatch
5.3.4 Preparation of primary speed profiles of transportation dispatch
5.3.5 Identification of buffer time between stations, stops, terminals or way points
5.3.6 Allocation of buffer time to each division
5.3.7 Modification of primary speed profiles of transportation dispatch
5.3.8 Correction and finalization of service schedules
5.3.9 Provision of an operation chart
5.4 Implementation of smart transportation

6 Quality maintenance of smart transportation for energy saving operation

6.1 General
6.2 Parameters to be observed
6.3 Modification of smart transportation

Annex A (informative) Typical speed profiles to schedule transportation dispatch

Annex B (informative) Typical energy saving performance in railway operation by modifying speed profiles

Page count: 10