

Title (en)

Assessing road traffic conditions using data from multiple sources

Title (de)

Festlegung von Strassenverkehrszuständen unter Benutzung von Daten mehrerer Datenquellen

Title (fr)

Évaluation des conditions de circulation routière au moyen de données provenant de sources différentes

Publication

EP 2278573 A1 20110126 (EN)

Application

EP 10013472 A 20070302

Priority

- EP 07752080 A 20070302
- US 77894606 P 20060303
- US 78974106 P 20060405
- US 43198006 A 20060511
- US 43260306 A 20060511
- US 43882206 A 20060522
- US 44499806 A 20060531
- US 47386106 A 20060622
- US 83870006 P 20060818
- US 54034206 A 20060928

Abstract (en)

Techniques are described for assessing road traffic conditions in various ways based on obtained traffic-related data, such as data samples from vehicles and other mobile data sources traveling on the roads, as well as in some situations data from one or more other sources (such as physical sensors near to or embedded in the roads). The assessment of road traffic conditions based on obtained data samples may include various filtering and/or conditioning of the data samples, and various inferences and probabilistic determinations of traffic-related characteristics of interest from the data samples. In some situations, the inferences include repeatedly determining traffic flow characteristics for road segments of interest during time periods of interest, such as to determine average traffic speed, traffic volume and/or occupancy, and include weighting various data samples in various ways (e.g., based on a latency of the data samples and/or a source of the data samples).

IPC 8 full level

G08G 1/01 (2006.01)

CPC (source: EP)

G08G 1/0104 (2013.01)

Citation (applicant)

US 36746306 A 20060303

Citation (search report)

- [A] US 2004034467 A1 20040219 - SAMPEDRO PAUL [US], et al
- [A] WO 2004021305 A2 20040311 - ITIS HOLDINGS PLC [GB], et al
- [A] DE 19928082 A1 20001221 - DDG GES FUER VERKEHRSDATEN MBH [DE]
- [A] US 5590217 A 19961231 - TOYAMA MASAKAZU [JP]
- [A] WO 9854682 A1 19981203 - BOOTH DAVID S [US]

Cited by

CN104778834A; CN103888893A; CN104751644A; CN104182618A; CN102779410A; CN107705560A; US9911327B2; US10198941B2; US10147315B2; US9640071B2; CN106156966A; EP3367713A1; US2018247472A1; WO2017001196A1; US10068470B2; US11295611B2; US10262479B2; US10354535B1; US10446023B2; WO2022086482A1; WO2014105300A1; US9014957B2; US9275551B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007103180 A2 20070913; WO 2007103180 A3 20071206; AT E523869 T1 20110915; AU 2007224206 A1 20070913; CN 101438335 A 20090520; CN 101438335 B 20110921; CN 102254434 A 20111123; CN 102254434 B 20130501; CN 102289935 A 20111221; CN 102289935 B 20151216; CN 102289936 A 20111221; CN 102289936 B 20140806; CN 102394008 A 20120328; CN 102394008 B 20150107; CN 102394009 A 20120328; CN 102394009 B 20140514; EP 1938296 A2 20080702; EP 1938296 B1 20110907; EP 2278573 A1 20110126; EP 2278573 B1 20120516; ES 2373336 T3 20120202; ES 2386529 T3 20120822; JP 2009529187 A 20090813

DOCDB simple family (application)

US 2007005355 W 20070302; AT 07752080 T 20070302; AU 2007224206 A 20070302; CN 200780015916 A 20070302; CN 201110220737 A 20070302; CN 201110221478 A 20070302; CN 201110221617 A 20070302; CN 201110221620 A 20070302; CN 201110221624 A 20070302; EP 07752080 A 20070302; EP 10013472 A 20070302; ES 07752080 T 20070302; ES 10013472 T 20070302; JP 2008558317 A 20070302