

Title (en)

DETECTION AND PREDICTION OF TRAFFIC DISTURBANCES

Title (de)

VERKEHRSTÖRUNGSDETEKTION UND PRÄDIKTION

Title (fr)

DETECTION ET PREVISION DES PERTURBATIONS DE LA CIRCULATION ROUTIERE

Publication

EP 0771447 A1 19970507 (EN)

Application

EP 96914510 A 19960513

Priority

- SE 9600620 W 19960513
- SE 9501919 A 19950519

Abstract (en)

[origin: WO9636929A1] The invention relates to a method for detection and prediction of incidents and traffic queues formed by overloading. This is done in real time with use of sensors in a road network. Predictions are used also to reach a faster and more reliable detection. Sensor measurements are also used in the process, where the comparison with expected values are used for successively updating stored parameter values for the involved algorithms. By this, the system can succeedingly adapt itself for changed situations. The strong traffic variations, that are naturally occurring at short time intervals are treated with the use of noise-based methods. By this, there are formed distribution related measures as e.g. the standard deviation, which can be estimated from measurements, and submit a base for estimating probabilities for deviations of a certain size, e.g. related to the standard deviation. Automatic incident detection (AID) is based on determination of the desired false-alarm rate, and the related threshold level. The method includes accumulated measurements. Faster and more reliable incident detections are received with the use of the invented prediction process method.

IPC 1-7

G06F 19/00; **G08G 1/01**; **G08G 1/065**

IPC 8 full level

G08G 1/01 (2006.01)

CPC (source: EP)

G08G 1/01 (2013.01)

Citation (search report)

See references of WO 9636929A1

Cited by

EP2562170A1; US11378403B2; US9240123B2

Designated contracting state (EPC)

DE DK FR GB IT NL

DOCDB simple family (publication)

WO 9636929 A1 19961121; DE 69631629 D1 20040401; DE 69631629 T2 20041223; EP 0771447 A1 19970507; EP 0771447 B1 20040225; SE 503515 C2 19960701; SE 9501919 D0 19950519; SE 9501919 L 19960701

DOCDB simple family (application)

SE 9600620 W 19960513; DE 69631629 T 19960513; EP 96914510 A 19960513; SE 9501919 A 19950519