

Title (en)
FUZZY LOGIC-ASSISTED TRAFFIC-RESPONSIVE CONTROL SYSTEM FOR TRAFFIC LIGHT SYSTEMS

Title (de)
VERKEHRSABHÄNGIGE STEUERUNG VON VERKEHRS-LICHTSIGNALANLAGEN MIT HILFE VON FUZZY-LOGIK

Title (fr)
DISPOSITIF DE COMMANDE DEPENDANT DU TRAFIC, DE SYSTEMES DE FEUX DE SIGNALISATION, ASSISTE PAR LOGIQUE FLOU

Publication
EP 0886845 B1 20000112 (DE)

Application
EP 97916338 A 19970311

Priority
• DE 9700471 W 19970311
• DE 19609680 A 19960312

Abstract (en)
[origin: WO9734274A1] The disclosure relates to a traffic-responsive control system for traffic light systems using a multistage modular fuzzy control (FS) comprising an observation level (BE) and a control level (SE). In the observation level (BE) the processed detector values and data on signal group states (DSD) are processed, e.g. every second, in a first stage with the aid of a data-bank module (DBM) to form compressed signal group-related data. From the latter, in a second stage using a green time requirement module (GBM) and a signal groups weighting module (SGGM), the required green times of individual signal groups and the signal group weightings are calculated. In a third stage in the control level (SE), using a signal/frame plan adaptation module (SRAM) and based on the green time requirement for the subsequent signal cycle, the signal/frame plan is adapted for the subsequent signal cycle, and switching recommendations (SED) for signal groups are generated in a signal group updating module (SGAM) based on the signal/frame plan and the signal group weightings, or alternatively, in a phase-updating module (PAM), the signal group weightings are converted to phase weightings for switching recommendations for the current and/or subsequent phase.

IPC 1-7
G08G 1/08

IPC 8 full level
G08G 1/08 (2006.01)

CPC (source: EP)
G08G 1/08 (2013.01)

Cited by
CN110634308A; CN104809892A; EP2492886A1; DE102011004841A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)
WO 9734274 A1 19970918; AT E188798 T1 20000115; AU 2503697 A 19971001; DE 59701006 D1 20000217; EP 0886845 A1 19981230; EP 0886845 B1 20000112

DOCDB simple family (application)
DE 9700471 W 19970311; AT 97916338 T 19970311; AU 2503697 A 19970311; DE 59701006 T 19970311; EP 97916338 A 19970311