

Title (en)

VESSEL TRAFFIC SERVICE EXPERT SYSTEM USING DEEP LEARNING ALGORITHM, AND CONTROL METHOD THEREOF

Title (de)

SCHIFFSVERKEHRSDIENSTEXPERTENSYSTEM MIT TIEFEM LERNALGORITHMUS UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)

SYSTÈME EXPERT DE SERVICES DE TRAFIC MARITIME UTILISANT UN ALGORITHME D'APPRENTISSAGE EN PROFONDEUR, ET PROCÉDÉ DE COMMANDE ASSOCIÉ

Publication

EP 3291206 A4 20180502 (EN)

Application

EP 15882906 A 20151223

Priority

- KR 20150061044 A 20150430
- KR 2015014180 W 20151223

Abstract (en)

[origin: EP3291206A1] The present invention relates to a vessel traffic service expert system using a deep learning algorithm. The vessel traffic service expert system using a deep learning algorithm comprises: a vessel traffic service (VTS) center providing oversea communication information including vessel information on a vessel being sailing and harbor area information; an oversea communication information database unit storing the oversea communication information provided from the VTS center in real time; a vessel traffic service leaning unit receiving the oversea communication information in a set range from the oversea communication information and generating control standard information determining a state of vessel and a state of area using the deep learning algorithm; a vessel traffic service analyzing unit generating the oversea control information including the information on vessel and the information on area in real time by comparing and analyzing the oversea communication information and the control standard information stored in real time; and an vessel traffic service information displaying unit displaying the generated control standard information through an electronic navigation chart. The control standard information includes vessel state standard information and area state standard information.

IPC 8 full level

G08G 3/00 (2006.01); **G08G 3/02** (2006.01)

CPC (source: EP)

G08G 3/00 (2013.01); **G08G 3/02** (2013.01)

Citation (search report)

- [IA] US 2011210865 A1 20110901 - LEE BYUNG-GIL [KR], et al
- [IA] US 2010033363 A1 20100211 - LEE HYUNG KYU [KR], et al
- [IA] US 7047114 B1 20060516 - ROGERS CHARLES DAVID [US]
- [IA] US 6249241 B1 20010619 - JORDAN ROBERT J [US], et al
- See references of WO 2016175425A1

Cited by

FR3090976A1; EP3957122A4; US11814506B2; US10803360B2; US11514668B2; US11776250B2; WO2020212973A1; WO2020127923A1; US11314990B2; US11702175B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3291206 A1 20180307; EP 3291206 A4 20180502; JP 2016212849 A 20161215; JP 6257687 B2 20180110; KR 101541808 B1 20150804; WO 2016175425 A1 20161103

DOCDB simple family (application)

EP 15882906 A 20151223; JP 2016084611 A 20160420; KR 20150061044 A 20150430; KR 2015014180 W 20151223