Title (en)

SYSTEM AND METHOD FOR TELECOMMUNICATIONS SYSTEM FAULT DIAGNOSTICS

Title (de)

SYSTEM UND VERFAHREN FÜR TELEKOMMUNIKATIONSSYSTEM FEHLERDIAGNOSEN

Title (fr)

SYSTEME ET PROCEDE DE DIAGNOSTIC DE DEFAILLANCES DE SYSTEMES DE TELECOMMUNICATIONS

Publication

EP 0972252 A1 20000119 (EN)

Application

EP 98911981 A 19980323

Priority

- GB 9706521 A 19970401
- US 9805736 W 19980323

Abstract (en)

[origin: WO9844428A1] A telecommunications fault location and diagnostic system employs a remote test unit (RTU) (2) to collect system parameter data. The RTU is operatively coupled to a trained neural network (30) which receives the system parameter data from the RTU (2). The neural network (3) is trained using pre-screened historical fault data which is stored in a database. Once trained the neural network classifies the RTU data into one of a predetermined number of fault probabilities.

IPC 1-7

G06F 15/18

IPC 8 full level

H04L 12/24 (2006.01); **H04M 3/08** (2006.01); **H04M 3/22** (2006.01); **H04M 3/24** (2006.01); **H04Q 3/00** (2006.01); H04M 3/30 (2006.01)

CPC (source: EP)

H04L 41/16 (2013.01); **H04M 3/08** (2013.01); **H04M 3/22** (2013.01); **H04M 3/2254** (2013.01); **H04M 3/247** (2013.01); **H04Q 3/0075** (2013.01); **H04Q 3/0087** (2013.01); H04M 3/301 (2013.01); H04M 3/305 (2013.01)

Citation (third parties)

Third party :

- US 5440566 A 19950808 - SPENCE HUGH F [US], et al
- US 5293323 A 19940308 - DOSKOCIL DOUGLAS C [US], et al
- US 5442555 A 19950815 - REIFMAN JAQUES [US], et al
- US 5465321 A 19951107 - SMYTH PADHRAIC J [US]
- US 5778184 A 19980707 - BROWNMILLER CURTIS [US], et al
- SAITO ET AL: "Autonomous Fault Diagnosis System using Learnign with Queries", 1995 IEEE CONFERENCE ON NEURAL NETWORKS PROCEEDINGS, vol. 1, 1 December 1995 (1995-12-01), pages 546 - 549, XP002917505

Cited by

CN109284830A; CN110222830A

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9844428 A1 19981008; AU 6580798 A 19981022; CA 2285239 A1 19981008; EP 0972252 A1 20000119; EP 0972252 A4 20010221; GB 2327553 A 19990127; GB 2327553 B 20020821; GB 9706521 D0 19970521

DOCDB simple family (application)

US 9805736 W 19980323; AU 6580798 A 19980323; CA 2285239 A 19980323; EP 98911981 A 19980323; GB 9706521 A 19970401