

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 August 2007 (09.08.2007)

PCT

(10) International Publication Number
WO 2007/089285 A3

- (51) International Patent Classification:
G06F 17/10 (2006.01)
 - (21) International Application Number:
PCT/US2006/035889
 - (22) International Filing Date:
14 September 2006 (14.09.2006)
 - (25) Filing Language: English
 - (26) Publication Language: English
 - (30) Priority Data:
11/275,796 30 January 2006 (30.01.2006) US
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 - (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
 - (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- (88) Date of publication of the international search report:**
23 April 2009

(54) Title: MODELING OF TRANSACTION FLOW FOR FAULT DETECTION

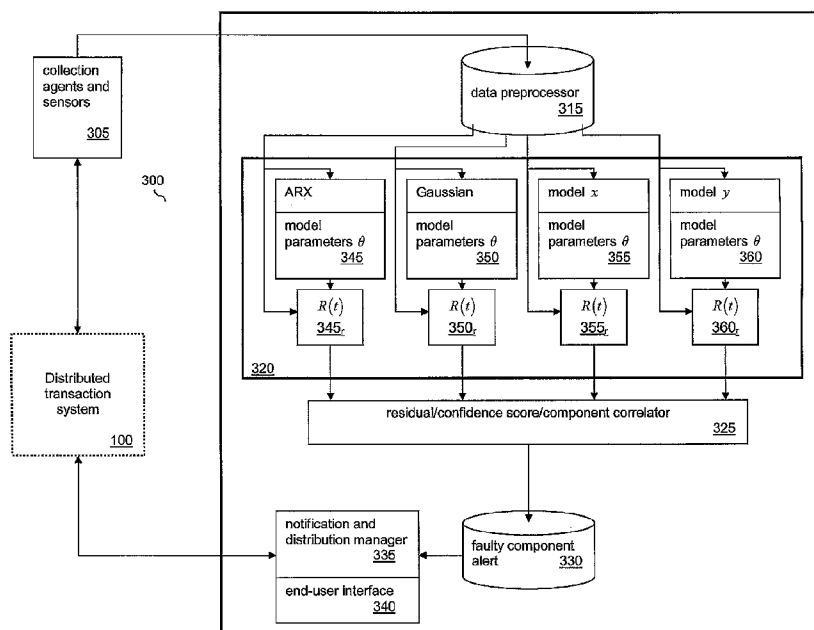


FIG. 3

(57) Abstract: A method and system that automatically derives models (350) between monitored quantities under non-faulty conditions (305) so that subsequent faults can be detected as deviations from the derived models (325). The invention identifies unusual conditions for fault detection and isolation that is absent in rule-based systems.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/35889

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G06F 17/10(2006.01)**

USPC: 703/2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 703/2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
IEEE, the Google, search terms distributed system model fault failure

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CHEN, Haifeng et al., Failure Detection and Localization in Component Based Systems by Online Tracking, Proceedings of the eleventh ACM Special Interest Group on Knowledge Discovery in Data international conference on Knowledge discovery in data mining, August 2005, pages 750 - 755	1-7,12
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Y	US 2005/0193281 (IDE et al) 01 September 2005 (01.09.2005) paragraph 106	8
Y	US 2005/0193281 (IDE et al) 01 September 2005 (01.09.2005) paragraph 106	8
A	HAJJI, H. Baseline Network Traffic and Online Faults Detection IEEE International Conference on Communications May 2003, Volume 1, pages 301 - 308	1-20
A	US 5,659,593 (TZVIELI) 19 AUGUST 1997 (19.08.1997)	1-20

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"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
24 June 2008 (24.06.2008)

Date of mailing of the international search report
14 JUL 2008

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