(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 15 November 2007 (15.11.2007)

(51) International Patent Classification: G06F 15/16 (2006.01)

(21) International Application Number:

PCT/US2007/067810

(22) International Filing Date: 30 April 2007 (30.04.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/381,975 5 May 2006 (05.05.2006)

(71) Applicant (for all designated States except US): SONY ONLINE ENTERTAINMENT LLC [US/US]; 8928 Terman Court, San Diego, California 92121 (US).

(72) Inventor: MCCULLER, Patrick; #6, 10926 Ivy Hill Drive, San Diego, California 92131 (US).

(74) Agent: LEE, Samuel S.; Procopio, Cory, Hargreaves & Savitch LLP, 530 B. Street, Suite 2100, San Diego, California 92101 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, (10) International Publication Number WO 2007/130918 A3

AT, AU, AZ, BA, BB, BG, BH, 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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, 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, MT, 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
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 31 July 2008

(54) Title: DETERMINING INFLUENTIAL/POPULAR PARTICIPANTS IN A COMMUNICATION NETWORK

(57) Abstract: Determining influential and/or popular participants in a network using messages exchanged among a group of participants. One method includes: representing the group of participants and the messages exchanged among the group of participants as nodes and links, respectively; analyzing the messages to produce message relevant data for each node; and propagating the message relevant data of the each node out to other nodes in the network to produce an influence value for the each node, wherein the influence value indicates relative size and strength of social activity or connections of a participant corresponding to each node.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/67810

A. CLASSIFICATION OF SUBJECT MATTER IPC: G06F 15/16(2006.01)		
11 C. Guar 13/10(2000.01)		
USPC: 709/204		
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.: 709/204,205,206,207		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
botainemation searched dutor than minimum documentation to the extent that such documents are included in the fields scarched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
	"PieSpy Social Network Bot Inferring and Visualizing Social Networks on IRC" Paul Mutton. Dec 04, 2003. Internet Archive WaybackMachine	
	http://web.archive.org/web/20031204185952/http://jibble.org/piespy/, whole document. 4-10,14-20	
[0002],[0041-0044], [0083], [0101]. Y US 2005/0075917 A1 (Flores et al) 7 April 2005 (01	[0002],[0041-0044], [0083], [0101]. US 2005/0075917 A1 (Flores et al) 7 April 2005 (07.04.2005), whole document. 1-22	
1 03 2003/00/3517 AT (1 lotes et al) 7 April 2003 (07.04.2003), whole document.		
Further documents are listed in the continuation of Box C. See patent family annex.		
Special categories of cited documents:	"T" later document published after the intern date and not in conflict with the applica	
"A" document defining the general state of the art which is not considered to be of particular relevance	principle or theory underlying the inven-	
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the cl considered novel or cannot be considered when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as	"Y" document of particular relevance; the cl	aimed invention cannot be
specified)	considered to involve an inventive step with one or more other such documents.	when the document is combined
"O" document referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art	Č
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family	
Date of the actual completion of the international search	Date of mailing of the international search report	
26 May 2008 (26.05.2008) Name and mailing address of the ISA/US	Authorized officer	
Mail Stop PCT, Attn: ISA/US		
Commissioner for Patents P.O. Box 1450	Jeffrey Pwu	
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Telephone No. 571-270-1896		

Form PCT/ISA/210 (second sheet) (April 2007)