PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : G06F 17/28	A1	(11) International Publication Number: WO 00/29978
		(43) International Publication Date: 25 May 2000 (25.05.00)

(21) International Application Number: PCT/US99/27364

(22) International Filing Date: 19 November 1999 (19.11.99)

(30) Priority Data:
09/195,040 19 November 1998 (19.11.98) US

(71)(72) Applicant and Inventor: DATIG, William, E. [US/US]; 6 Harrison Drive, Northport, NY 11763 (US).

(74) Agents: MESSINA, Michael, A. et al.; McDermott, Will & Emery, 600 13th Street, N.W., Washington, DC 20005-3096 (US).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, 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 the receipt of amendments.

(54) Title: UNIVERSAL TRANSLATION METHOD

(57) Abstract

A source signal embodying knowledge is decomposed into a simple and regular internal representation of a decomposition of epistemic instances of the knowledge. An epistemic instance is a fundamental semantic structure that expresses a transformation of two objects. The internal representation is then transformed into another internal representation from which a target signal is constructed. The complexity of language is localized within rules for decomposing the source signal into the internal representation and rules for transforming the internal representation into another internal representation. In one embodiment, source signal decomposition and target signal constructions are facilitated by look ups into a universal dictionary.