

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 September 2023 (14.09.2023)



(10) International Publication Number
WO 2023/172205 A1

(51) International Patent Classification:

G06N 20/00 (2019.01) G06F 17/16 (2006.01)
G06Q 30/06 (2012.01)

(21) International Application Number:

PCT/SG2023/050157

(22) International Filing Date:

11 March 2023 (11.03.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202202521Q 11 March 2022 (11.03.2022) SG

(71) Applicant: **SMUDG COMPANY PTE. LTD.** [SG/SG];
Blk 71 Ayer Rajah Crescent, #03-04/05, Singapore 139951
(SG).

(72) Inventors: **BHANSALI, Juilee**; C-1/7, Sukumar Society,
Dayaldas Road, Vile Parle (east), Mumbai, 400057, Ma-
harashtra, India, Mumbai 400057 (IN). **SULE, Sanand**; C
1803 24k Opula, New DP Road, Vishalnagar, Pune 411027,
Maharashtra India, Pune 411027 (IN).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE,
KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU,
LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG,
NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS,
RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST,
SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ,
RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ,
DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,
LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) Title: A SYSTEM CONFIGURED WITH AN EVER EXPANDING, SELF-CALIBRATING, ARRAY OF ONE OR MORE
TYPES OF ATTRIBUTES

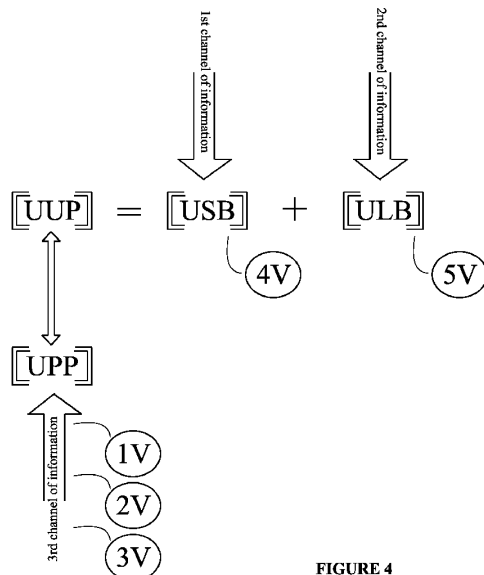


FIGURE 4

(57) Abstract: This invention discloses a system configured with an ever expanding, self-calibrating, array of one or more types of attributes, comprising: creating a first n-dimensional attribute matrix having a plurality of a first set of blocks having a product data item resident; creating a second n-dimensional identity matrix having a plurality of second set of blocks having a user data item resident; polling one or more products, product experts, product users, users, in order to obtain first bias (first dimension), second bias (second dimension), third bias (third dimension), first fixed user attribute, and second variable user attribute; inputting a new product; fixing a base truth value; aligning said products basis said fixed base truth values in said n-dimensional attribute matrix; receiving feedbacks; correcting said truth value; interspersing said new product in said n-dimensional attribute matrix, basis said corrected truth value, using spatial data extrapolation.

WO 2023/172205 A1

[Continued on next page]

Declarations under Rule 4.17:

- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- *of inventorship (Rule 4.17(iv))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*