



- (51) International Patent Classification:
G06F 15/18 (2006.01)
- (21) International Application Number:
PCT/US2015/036779
- (22) International Filing Date:
19 June 2015 (19.06.2015)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
62/015,233 20 June 2014 (20.06.2014) US
- (71) Applicant: **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA** [US/US]; 1111 Franklin Street, 12th Floor, Oakland, California 94607 (US).
- (72) Inventors: **GEORGESCU, Michael V.**; 6623 Gerald Avenue, Van Nuys, California 91406 (US). **MEZIC, Igor**; 6119 Manzanillo Drive, Goleta, California 93117 (US).
- (74) Agent: **GATES, George H.**; Gates & Cooper LLP, 6701 Center Drive West, Suite 1050, Los Angeles, California 90045 (US).
- (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, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,

HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, 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, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, 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, 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).

Declarations under Rule 4.17:

— 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))

(88) Date of publication of the international search report:

25 February 2016

(54) Title: ENERGY INFRASTRUCTURE SENSOR DATA RECTIFICATION USING REGRESSION MODELS

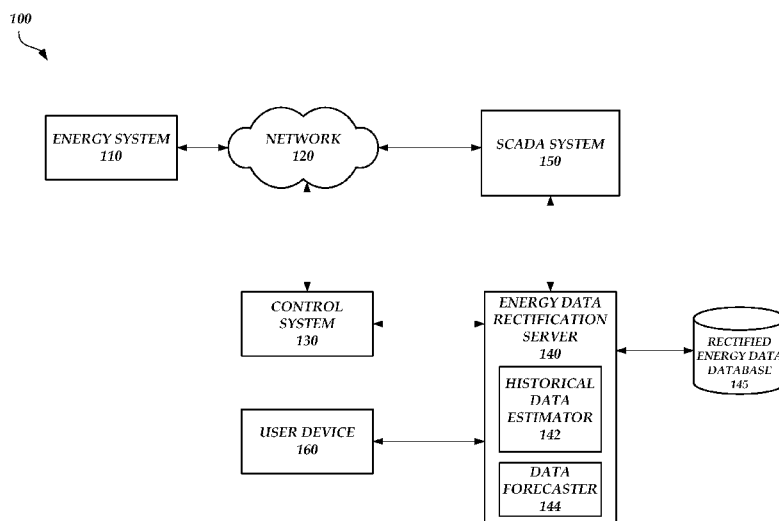


FIG. 1

(57) Abstract: A system and method are provided for physical data rectification using regression models. For example, the physical data may be energy infrastructure sensor data. The system may perform an estimation of sensor data during periods of data dropout using a regression model. The system may assess the accuracy of regression models through the comparison of probability distribution functions of physical data estimated using the regression model and actual physical data.