



(51) International Patent Classification:
G06F 17/14 (2006.01) *G06N 3/02* (2006.01)
G06N 20/00 (2019.01)

(21) International Application Number:
PCT/SG2023/050052

(22) International Filing Date:
31 January 2023 (31.01.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
17/666,076 07 February 2022 (07.02.2022) US

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(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,

(54) Title: MACHINE LEARNING WITH PERIODIC DATA

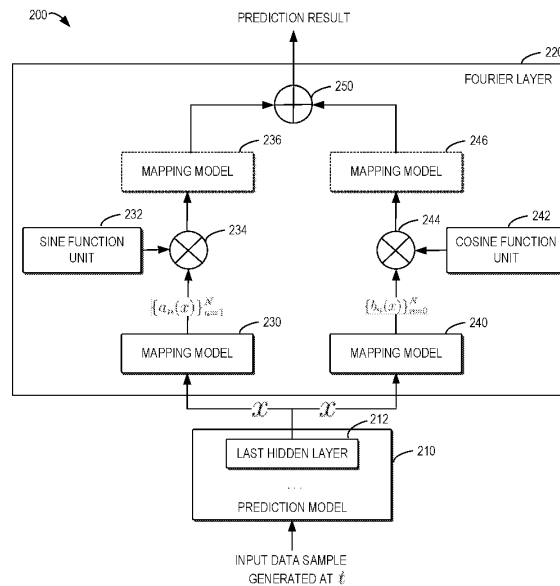


FIG. 2

(57) Abstract: Embodiments of the present disclosure relate to machine learning with periodic data. According to embodiments of the present disclosure, a feature representation of an input data sample is obtained from a prediction model. First Fourier coefficients for a first component in a Fourier expansion are determined by applying the feature representation into a first mapping model, and second Fourier coefficients for a second component in the Fourier expansion are determined by applying the feature representation into a second mapping model. A Fourier expansion result is determined based on the first Fourier coefficients and the second Fourier coefficients in the Fourier expansion, and a prediction result for the input data sample is determined based on the Fourier expansion result.

[Continued on next page]

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).

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:

19 October 2023 (19.10.2023)