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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
26 June 2025 (26.06.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/133024 A1

(51) International Patent Classification:
G06N 3/0464 (2023.01) *G06N 3/09* (2023.01)

(21) International Application Number:
PCT/EP2024/087760

(22) International Filing Date:
19 December 2024 (19.12.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
23383320.1 19 December 2023 (19.12.2023) EP

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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, 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, MU, 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))*

(54) Title: SYSTEM AND METHOD FOR ERASING INFORMATION FROM ARTIFICIAL INTELLIGENCE SYSTEMS AND RELATED METHODS

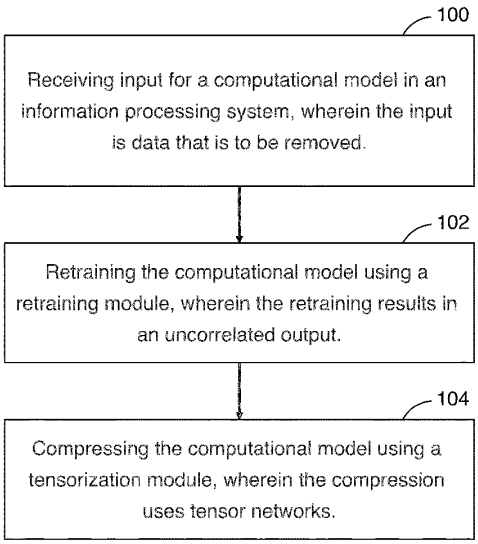


FIG. 1

(57) Abstract: A computer-implemented process and an information processing system are disclosed. The process includes receiving input for a computational model, retraining the model to result in an uncorrelated output, and compressing the model using a tensorization module. The system comprises a computational model that processes input data, a retraining module, and a tensorization module that compresses the computational model using mathematical structures. The computational model can be a layered model, a model for language processing, a binary classification model, or a prediction model. The mathematical structures can be tensor networks used to compress layers of the computational model.

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