

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
13 February 2025 (13.02.2025)



(10) International Publication Number
WO 2025/032587 A1

(51) International Patent Classification:

G06N 20/00 (2019.01) H04L 41/14 (2022.01)
H04L 9/40 (2022.01) H04L 43/045 (2022.01)

(21) International Application Number:

PCT/IL2024/050795

(22) International Filing Date:

07 August 2024 (07.08.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

305023 07 August 2023 (07.08.2023) IL

(71) Applicant: **DREAM SECURITY LTD.** [IL/IL]; 24 Rav
Aluf David Elazar Street, 6107419 Tel Aviv (IL).

(72) Inventor: **FIALKOW, Tal**; c/o DREAM SECURITY
LTD., 24 Rav Aluf David Elazar Street, 6107419 Tel Aviv
(IL).

(74) Agent: **KRAVETZ, Yossi**; REINHOLD COHN & PART-
NERS, POB 13239, 6113102 Tel-Aviv (IL).

(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: ADAPTIVE ASSET-SPECIFIC ANOMALY DETECTION FOR OT AND IT NETWORKS

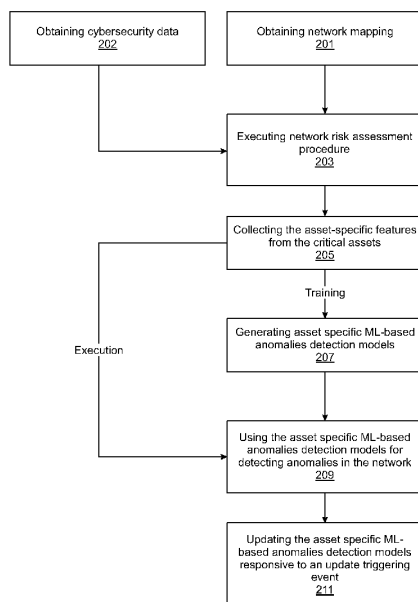


FIG. 2

(57) Abstract: The presently disclosed subject matter includes a computer-implemented method and system of dynamic and adaptive anomaly detection in a computer network. According to the disclosed approach, asset-specific features indicative of normal network behavior in respective assets in the network are dynamically determined and collected from each respective asset. Asset-specific features collected from a given asset are applied to a respective asset-specific machine learning (ML) -based anomaly detector configured to detect anomalies in the given asset, based on the features.

WO 2025/032587 A1