

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 March 2023 (02.03.2023)



(10) International Publication Number
WO 2023/025552 A1

(51) International Patent Classification:
G06F 16/906 (2019.01) *H04L 67/56* (2022.01)
G06F 16/951 (2019.01) *G06N 5/00* (2006.01)

(21) International Application Number:
PCT/EP2022/071835

(22) International Filing Date:
03 August 2022 (03.08.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/260,530 24 August 2021 (24.08.2021) US
17/454,074 09 November 2021 (09.11.2021) US

(71) Applicant: **OXYLABS, UAB** [LT/LT]; Švitrigailos g. 32,
03230 Vilnius (LT).

(72) Inventors: **JURAVICIUS, Martynas**; Naugarduko Street
62-85, 03203 Vilnius (LT). **BULBA, Erikas**; Gelezinio
Vilko 5-60, 03131 Vilnius (LT). **BRILIAUSKAS, Mantas**;
Fabijoniskiu Street 5-105, 06335 Vilnius (LT).

(74) Agent: **MEISSNER, BOLTE PATENTANWÄLTE
RECHTSANWÄLTE PARTNERSCHAFT MBB**; Florian
Meyer, Widenmayerstr. 47, 80538 Munich (DE).

(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, 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, ST, SV, SY, TH,

(54) Title: ADAPTIVE DATA COLLECTION OPTIMIZATION

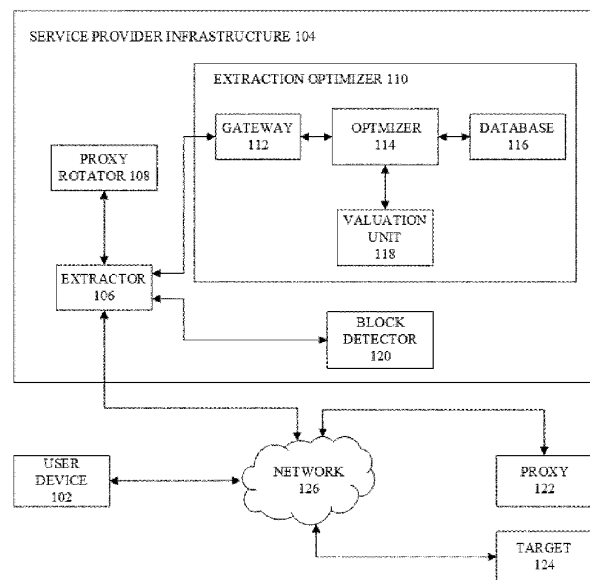


FIGURE 1

(57) Abstract: Systems and methods to intelligently optimize data collection requests are disclosed. In one embodiment, systems are configured to identify and select a complete set of suitable parameters to execute the data collection requests. In another embodiment, systems are configured to identify and select a partial set of suitable parameters to execute the data collection requests. The present embodiments can implement machine learning algorithms to identify and select the suitable parameters according to the nature of the data collection requests and the targets. Moreover, the embodiments provide systems and methods to generate feedback data based upon the effectiveness of the data collection parameters. Furthermore, the embodiments provide systems and methods to score the set of suitable parameters based on the feedback data and the overall cost, which are then stored in an internal database.

[Continued on next page]

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, 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).

Published:

- *with international search report (Art. 21(3))*
- *with amended claims (Art. 19(1))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*