

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/022595

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. H04N21/238 (2011.01) i, G06F13/00 (2006.01) i, H04N17/02 (2006.01) i,
H04N19/156 (2014.01) i, H04N19/177 (2014.01) i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H04N21/238, G06F13/00, H04N17/02, H04N19/156, H04N19/177

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan	1922-1996
Published unexamined utility model applications of Japan	1971-2018
Registered utility model specifications of Japan	1996-2018
Published registered utility model applications of Japan	1994-2018

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

IEEE Xplore

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	二瓶浩一 (外4名) (NIHEI, K., et al.), 「モバイルネットワーク 上り回線におけるライブ映像配信のためのQoE ベース映像ビット レート制御方式(A QoE-Driven Video Bitrate Control Method for Live Streaming on Mobile Uplink)」, 電子情報通信学会技術研究報告(IEICE Technical Report), 25 July 2016, vol. 116, no. 171, pp. 1-6, ISSN: 0913-5685. Especially, see sections 3, 4. [NOTE] English translated version of this document is cited in this ISR as category "P, Y".	1-3, 6-10 4, 5

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

03 July 2018 (03.07.2018)

Date of mailing of the international search report

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Name and mailing address of the ISA/

Japan Patent Office
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2018/022595

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	YOSHIDA, H., et al., "Constructing Stochastic Model of TCP Throughput on Basis of Stationarity Analysis", Proceedings of 2013 IEEE Global Communications Conference (GLOBECOM 2013), 13 December 2013, pp. 1544-1550, ISBN: 978-1-4799-1353-4, <DOI: 10.1109/GLOCOM.2013.6831293>. especially, section IV; fig. 4; section V. A.	1-3, 6-10
Y	吉田裕志 (外 2 名) (YOSHIDA, H., et al.), 「TCP スループットの確率的拡散予測に基づく映像配信制御 (Video Streaming Control by Predicting Stochastic Diffusion of TCP Throughput)」, [online], インターネットコンフェレンス 2011 (Internet Conference 2011), 27 October 2011, pp. 57-66, [retrieved on 03 July 2018], retrieved from the Internet:<URL:https://www.internetconference.org/ic2011/PDF/ic2011-paper5.pdf>. especially, fig. 2; section 2. 3 a). [NOTE] This document is English translated version of D2.	1-3, 6-10
Y	WO 2011/125295 A1 (PANASONIC CORP.) 13 October 2011, paragraphs [0041]-[0043] & US 2013/0010858 A1, paragraphs [0071]-[0073]	3
Y	WO 2012/101709 A1 (NEC CORP.) 02 August 2012, paragraphs [0030]-[0032]; fig. 3 & US 2013/0301411 A1, paragraphs [0064]-[0066]; fig. 3 & EP 2670185 A1 & CN 103329591 A	8
P, Y	NIHEI, K., et al., "QoE Maximizing Bi trate Control for Live Video Streaming on a Mobile Uplink", Proceedings of 14th International Conference on Telecommunications 2017 (ConTEL 2017), 30 June 2017, pp. 91-97, ISBN: 978-953-184-223-5, <DOI: 10.23919/ConTEL.2017.8000044>. especially, page 91, left-hand column, lines 7-15; page 93, left-hand column, lines 5-6; page 94, left-hand column, lines 6-12, 15-22, 28-39; page 94, right-hand column, lines 1-3, 5-7, 11-12, 24-25. [NOTE] This document is English translated version of D1.	1-3, 6-10