



US 20240214500A1

(19) **United States**

(12) **Patent Application Publication**  
**Park**

(10) **Pub. No.: US 2024/0214500 A1**

(43) **Pub. Date: Jun. 27, 2024**

(54) **ELECTRONIC DEVICE AND OPERATION METHOD THEREOF, AND SERVER AND OPERATION METHOD THEREOF IN SYSTEM FOR PROVIDING LOCATION-BASED SERVICE BASED ON OBJECT DETECTED FROM VIDEO**

(71) Applicant: **THINKWARE CORPORATION**,  
Seongnam-si (KR)

(72) Inventor: **Chan Soo Park**, Seongnam-si (KR)

(73) Assignee: **THINKWARE CORPORATION**,  
Seongnam-si (KR)

(21) Appl. No.: **18/599,424**

(22) Filed: **Mar. 8, 2024**

**Related U.S. Application Data**

(63) Continuation of application No. 17/843,058, filed on Jun. 17, 2022, now Pat. No. 11,930,146, which is a continuation of application No. 16/722,903, filed on Dec. 20, 2019, now Pat. No. 11,394,848.

(30) **Foreign Application Priority Data**

Dec. 24, 2018 (KR) ..... 10-2018-0168776

Nov. 20, 2019 (KR) ..... 10-2019-0149354

**Publication Classification**

(51) **Int. Cl.**

**H04N 1/32** (2006.01)

**G06K 7/14** (2006.01)

**G06K 19/06** (2006.01)

**H04W 4/029** (2006.01)

(52) **U.S. Cl.**

CPC ..... **H04N 1/32144** (2013.01); **G06K 7/1417**

(2013.01); **G06K 19/06037** (2013.01); **H04W**

**4/029** (2018.02); **G06K 2019/06262** (2013.01)

(57) **ABSTRACT**

In a system in which a first electronic device, a server, and a second electronic device wirelessly communicate with each other, the first electronic device may detect object information associated with at least one object from a video being captured and may transmit the object information to the server, the server may identify a location of the object based on the object information and may transmit service information associated with the location of the object to the second electronic device, and the second electronic device may provide the service information to a user.

