

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CN2018/071580

## A. CLASSIFICATION OF SUBJECT MATTER

G01S 11/00 (2006.01) 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)

G01S

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

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

CNPAT; CNKI; WPI; EPODOC: 刘宗香, 深圳大学, 闪烁, 噪声, 机动, 目标, 跟踪, 前, 后, 运动, 高斯伽玛, 混合分布, 概率, 马尔可夫转移概率, 变分贝叶斯方法, 阈值, noise, movement, threshold, probability, track+

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                          | Relevant to claim No. |
|-----------|---|-----------------------|
| PX        | CN 107462882 A (SHENZHEN UNIVERSITY) 12 December 2017 (12.12.2017), description, pages 1-6, and figures 1-6 | 1-10                  |
| A         | CN 106772353 A (SHENZHEN UNIVERSITY) 31 May 2017 (31.05.2017), description, pages 1 and 2, and figures 1-6  | 1-10                  |
| A         | CN 103345577 A (JIANGNAN UNIVERSITY) 09 October 2013 (09.10.2013), entire document                          | 1-10                  |
| A         | CN 104318059 A (SHENZHEN UNIVERSITY) 28 January 2015 (28.01.2015), entire document                          | 1-10                  |
| A         | CN 103729637 A (XI'AN POLYTECHNIC UNIVERSITY) 16 April 2014 (16.04.2014), entire document                   | 1-10                  |

Further documents are listed in the continuation of Box C.

See patent family annex.

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|---|---|
| <p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p> | <p>“T” 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</p> <p>“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</p> <p>“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</p> <p>“&amp;” document member of the same patent family</p> |
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| Date of the actual completion of the international search<br>15 May 2018 | Date of mailing of the international search report<br>04 June 2018 |
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| <p>Name and mailing address of the ISA<br/>State Intellectual Property Office of the P. R. China<br/>No. 6, Xitucheng Road, Jimenqiao<br/>Haidian District, Beijing 100088, China<br/>Facsimile No. (86-10) 62019451</p> | <p>Authorized officer<br/><br/>WANG, Haifeng<br/><br/>Telephone No. (86-10) 53962363</p> |
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages               | Relevant to claim No. |
|-----------|--|-----------------------|
| A         | US 9062978 B2 (MASSACHUSETTS INSTITUTE OF TECHNOLOGY) 23 June 2015 (23.06.2015), entire document | 1-10                  |

**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

International application No.  
PCT/CN2018/071580

| Patent Documents referred in the Report | Publication Date | Patent Family    | Publication Date |
|---|------------------|------------------|------------------|
| CN 107462882 A                          | 12 December 2017 | None             |                  |
| CN 106772353 A                          | 31 May 2017      | None             |                  |
| CN 103345577 A                          | 09 October 2013  | CN 103345577 B   | 18 May 2016      |
| CN 104318059 A                          | 28 January 2015  | CN 104318059 B   | 02 February 2018 |
| CN 103729637 A                          | 16 April 2014    | CN 103729637 B   | 11 January 2017  |
| US 9062978 B2                           | 23 June 2015     | US 2012310591 A1 | 06 December 2012 |
|   |                  | WO 2012166757 A2 | 06 December 2012 |