Daily Vocabulary and Grammar Learning (12 Dec 2023)

Vocabulary:

Vocabulary	Part of speech	Type of verb	Meaning	Synonyms	Collocation	Example
Conducted (kən ˈdʌkt)	Conduct (v) Conductive (adj) Conduct (n) Conductance (n)	Conduct (v1) Conducting Conducted (v2) Conducted (v3)	to organize and perform a particular activity	Carried out, Performed, Executed, Undertaken, Managed, Administered, Implemented, Organized, Directed	**Adverb** Conduct separately Conduct independently Conduct jointly	- The experiments were conducted by scientists in New York. - How you choose to conduct your private life is your own business!
On analyzing	Phrases		This phrase suggests the beginning of the analysis process			- On analyzing the data, we observed a clear pattern - On analyzing the detection results on the CHOKEPOINT dataset, the IDL-HDIS model **has effectively identified** the 'Humans' with a precision of 94%, recall of 95%, and F-score of 93%.

On examining	Phrases		This phrase indicates the start of an examination or review			- On examining the document, we found discrepancies in the details - On examining the detection outcomes on the INRIA dataset, the IDL-HDIS method has efficiently identified the 'Humans' with a precision of 92%, recall of 95%, and F-score of 94%.
On investigating	Phrases		This phrase signifies the initiation of an investigation			- On investigating the incident, the authorities gathered relevant information - On investigating the detection results on the Surveillance footage, the IDL-HDIS methodology has recognized the 'Humans' effectively with a precision of 93.70%, recall of 96.15%, and F-score of 95.42%.

Grammar:

Structure of Present simple tense (Active and Passive)

The passive voice in the present simple tense is used to emphasize the **action or the result of the action**, rather than the doer of the action.

Active

Active: **Sub + v1 + object**
Example: I write a report.

Real Examples of present simple in active collected from Scientific paper:
1. The measures used to examine the detection performance are computation time, precision, recall, and F-score. *(Subject 'The measures', Red mark is Phrase, main verb 'are')*
2. The image in the first and third rows represent the input images, whereas the second and fourth rows denote the human detection images correspondingly.
3. Table 1 and Figure 6 investigate the detection outcome of the model on the applied dataset.
4.

Passive

Passive: **Object + am/is/are + v3**
Example: A report is written or A report is written by me.
Passive (General):
1. Reports are written
2. Cars are sold.
3. The shop isn't opened on Sunday.

Use of the present simple in passive:
1. **General truths or facts:** Passive sentence is often used to express general truths or facts
   Example: English is spoken by millions of people around the world.
2. **Processes or procedures:** When describing processes or procedures, specially when the emphasis is on the actions themselves rather than on a specific person or group performing the actions
   Example: The cake is baked at 350 degree Fahrenheit for 30 minutes.

3. **Impersonal statements:** When the focus is on the action or result rather than a specific actor.

   Example: Mistakes are made

4. **Scientific or technical writing:** In scientific or technical writing, where the focus is on the process of the observed result.

   Example: The experiment is conducted in a controlled environment.

5. **Instructions and manuals:** In instructional texts or manuals, the passive voice is commonly used to give clear instructions.

   Example: The document is saved by clicking the 'Save' button.

6. **Avoiding personal pronouns:** When the doer of the action is unknown, unimportant, or intentionally left unspecified.

   Example: The keys are kept in the drawer.

A sample paragraph present simple in passive:

In our company, tasks are assigned based on individual expertise. Reports are prepared by the research team, presentations are designed by the creative department, and schedules are managed by the administrative staff. Meetings are conducted regularly to discuss project updates, and decisions are made collaboratively. The office premises are cleaned every evening, ensuring a comfortable environment for all employees. In summary, a well-organized and collaborative work culture is maintained where responsibilities are shared, and tasks are efficiently carried out by the dedicated teams.

Real Examples of present simple in passive collected from Scientific paper:

1. The proposed model is simulated using the Python 3.6.5 tool and the libraries of TensorFlow version 1.8.0 and Keras version 2.1.6 on four GeForce GTX 1080 Ti graphical processing units (GPUs).
2. Besides, the performance measures are determined using the package scikit-learn version 0.20.3.
3. In this study, the performance of the proposed model is validated against three surveillance video datasets, namely CHOKEPOINT, INRIA, and Surveillance Footage.
4. A few sample test images are depicted in Figure 4.
5. A visualization results analysis of the presented X model is made in Figure 5.
6. As show in the figure, the humans in the different input images are correctly detected.
7. **Similarly**, the 'Non-Human' objects **are detected** with a precision of 96%, recall of 95%, and F-score of 95%.

8. **Likewise**, the 'Non-Human' objects **are detected** with a precision of 96.86%, recall of 96.09%, and F-score of 96.18%.
9. **In line with this**, the 'Non-Human' objects **are detected** with a precision of 94.77%, recall of 96.80%, and F-score of 96.34%.

Structure of Present perfect tense (Active and Passive)

It is good way to use passive voice especially in formal communication. The present perfect tense is often used to convey actions that are completed with a connection to the present moment.

Active

Active: **Sub + have/has + v3 + object**
Example: I have prepared the final manuscript.

Real Examples of present perfect in active collected from Scientific paper:
1. On analyzing the detection results on the CHOKEPOINT dataset, the IDL-HDIS model **has effectively identified** the 'Humans' with a precision of 94%, recall of 95%, and F-score of 93%.
2. On examining the detection outcomes on the INRIA dataset, the IDL-HDIS method **has efficiently identified** the 'Humans' with a precision of 92%, recall of 95%, and F-score of 94%.
3. On investigating the detection results on the Surveillance footage, the IDL-HDIS methodology **has recognized** the 'Humans' effectively with a precision of 93.70%, recall of 96.15%, and F-score of 95.42%.
4. The results show that the SSD model **has detected** humans ineffectively by achieving the least precision of 4.33% and recall of 94.36%.

Passive

Passive: **Action/Object + have/has + been + v3 + others**
Example: The final manuscript has been prepared.

Sample Paragraph:
Professor, based on all comments and following the journal guidelines, the final manuscript and cover letter have been prepared today. Please find the attachments, and let me know if any further modifications are needed.

Real Examples of present perfect in passive collected from Scientific paper:

1. A visualization results analysis of the presented/developed/implemented/utilized/ model has been made in figure 5.