1. Fill in the gap.

For security reasons many systems and applications are getting to apply an authentication based on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ data.

1. The speaker identification task involves 3 research areas:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Speech features for identification are divided into more levels:

□ Acoustic

□ Lower level features

□ Prosodic

□ Higher level features

1. Which of the following categories does not belong to classification methods that are used to take decision about the speaker identity based on speech features:

□ Parametric methods

□ Approximation methods

□ Nonparametric methods

□ Discriminative methods

1. The main purpose of the speech signal is to convey lexical information. However, it contains additional information e.g. speaker specific that include:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Assign the correct definition?

1. Identification \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Authentication \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Authorization \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1** – after identification string or token is accepted, user has to prove his identity.

**2** – allow or deny user access to the requested content or to a set of actions under based on his access rights

**3** – user is identified by token or identification string (phone number or email address)

1. Complete the entities involved in the authentication process.



\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Availability

Security and Vulnerability

Technology

Human

factors

Authentication mechanism, System, Database, Input mechanism

1. Fill in objects belonging to access control model.

Operation

Subject, Object, Operation, Permission, Classification, Role