"COMPUTER ADAPTIVE LANGUAGE TESTING: FROM IDEA TO IMPLEMENTATION"

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The National Defence University of Ukraine

named after Ivan Cherniakhovskyi

PAPER-AND-PENCIL TEST

TEST DEVELOPING PER YEAR

2   **STANAG 6001 English Language Tests (Level 2)**
2   **STANAG 6001 German Language Tests (Level 2)**
2   **STANAG 6001 French Language Tests (Level 2)**
1   **STANAG 6001 English Language Tests (Level 3)**

LANGUAGE TESTING PER YEAR

25-30   **English Language Testing (Level 2)**
2-3   **German Language Testing (Level 2)**
2-3   **French Language Testing (Level 2)**
2-3   **English Language Testing (Level 3)**

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A computer adaptive language testing (CALT) is a multilevel language test (L1, L2, L3) according to NATO STANAG 6001 in two language skills: LISTENING & READING

✓ feedback principle

✓ adapts to the test-taker's ability level

✓ selects questions for the purpose

✓ has the item bank

✓ unique test for each test-taker

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CALT algorithm consists of three blocks:

"Starting Point"

generates a random items set

(Level 1, Level 2, Level 3) NATO STANAG 6001

"Item Selection"

presents the logic of adaptation

"Scoring Algorithm and Termination Criterion"

determines the foreign language proficiency level

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CALT SOFTWARE ALLOWS TO

- ✓ generate randomly the test

- ✓ determine the foreign language proficiency level

- ✓ store data and test results

- ✓ get the statistics data for each item

- ✓ get data on the users' actions

- ✓ conduct the items piloting

- ✓ generate the protocol of results

- ✓ access for unlimited number of users

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"Administrative"

"Testing"

"Items bank"

- ✓ authorization of users

- ✓ creation, deletion and editing of categories (branches) of test items

- ✓ formation of test items database

- ✓ review of testing statistics

- ✓ automatic test generation

- ✓ no possibility to skip an item

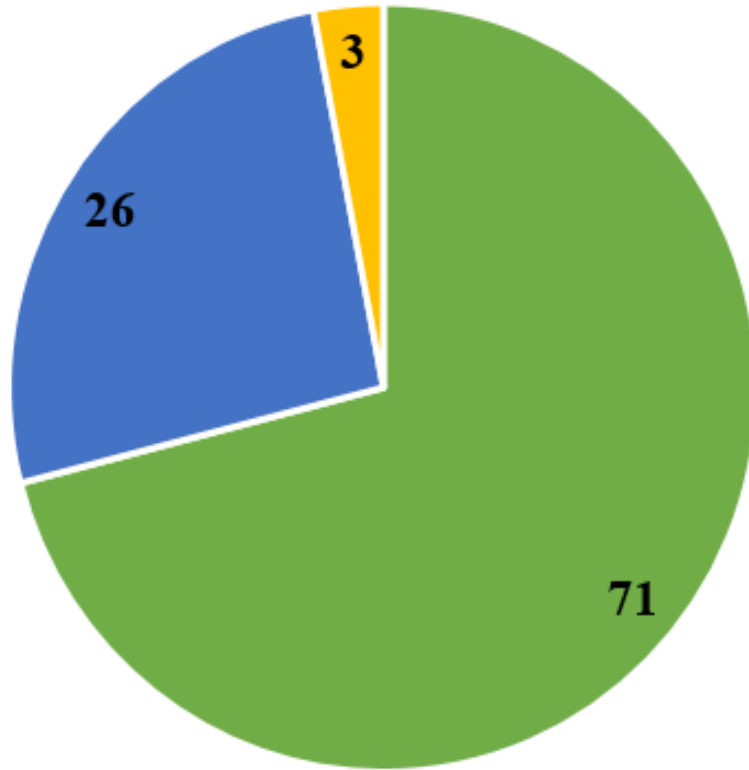- ✓ no possibility to return to the previous item

- ✓ time limitation

- ✓ store items

- ✓ manage items

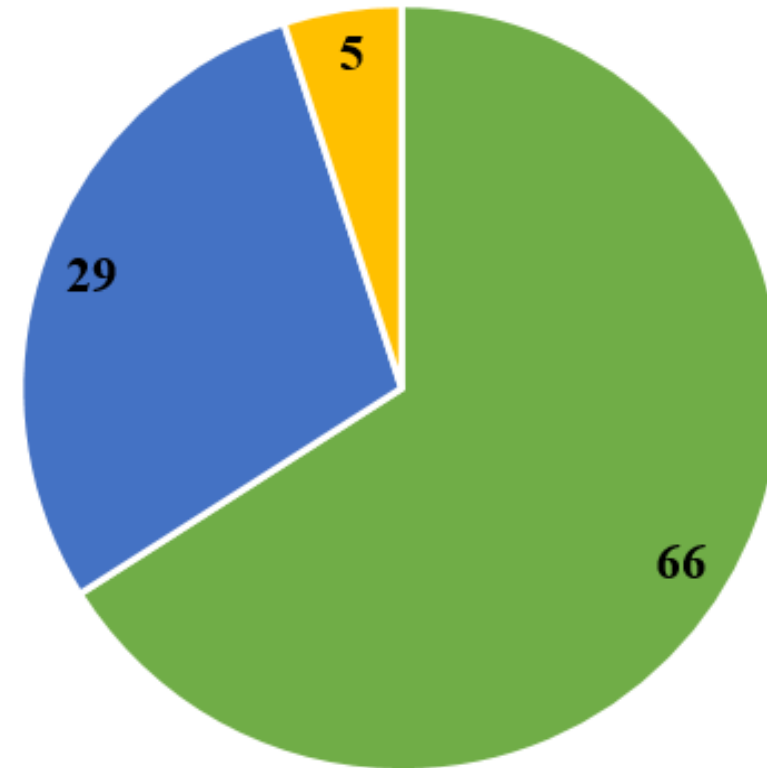The National Defence University of Ukraine

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Reading (%)

- 71 — CALT = PPT
- 26 — CALT > PPT
- 3 — CALT < PPT

Listening (%)

- 66 — CALT = PPT
- 29 — CALT > PPT
- 5 — CALT < PPT

■ CALT = PPT   ■ CALT > PPT   ■ CALT < PPT

Comparative analysis of results of computer adaptive language testing (CALT)
and paper-and-pencil testing (PPT) methods

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✓ shorter in time

✓ accurate at scoring and reporting the scores

✓ immediate feedback

✓ immediate testing statistics

✓ no cheating effect

✓ no frustration

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