

## CATEGORIZATION OF THE DEPLOYMENT CRITERIA FOR AUDITORIUM CLASS ATTENDANCE MONITORING SYSTEMS

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In contrast to distance and remote learning, classroom-based education lacks a variety of interactive technologies due to the large number of students in academic spaces. Therefore, to avoid unnecessary formalities, paper-based routines, and cumbersome bureaucratic procedures that prolong class time and divert students' attention from the substantive part of the lecture, it is important to focus on implementing appropriate technical solutions for registration and monitoring of participants in university settings. The need for categorizing relevant criteria arose for further exploration of participant registration aspects in the educational process (Figure), ensuring effective implementation and functioning of monitoring systems in educational institutions.

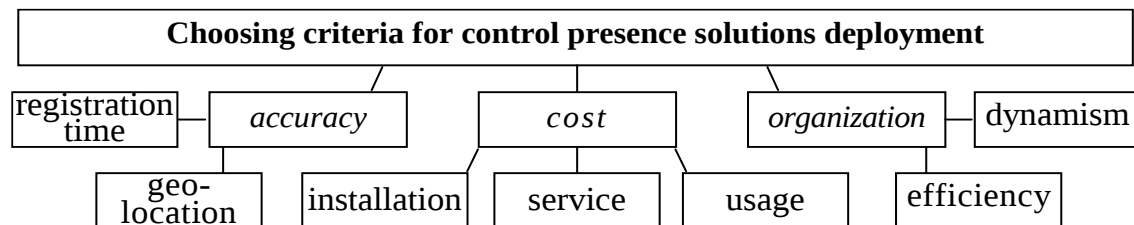


Figure – Factors hierarchy of attendance tracking systems

The *cost* criterion constitutes a significant portion of the budget allocated for the implementation and operation of the system. Justification of the cost involves a meticulous analysis of various aspects of the organization's financial health and possibilities for financial resource mobilization. A detailed analysis of these expenditure items is crucial to ensure the economic feasibility of implementing the system. Specifically, it assists in making the correct choice of equipment and software, evaluating the potential for process optimization, and reducing expenses on technical maintenance. Effective *organization* involves considering various aspects that affect the convenience, accessibility, functionality, and productivity of the system. To ensure the reliability and efficiency of system operation, the *accuracy* criterion is measured as the system's ability to adequately determine and record data on presence and activity of participants, reliably identifying each student, registering their presence and activity, and unequivocally determining the time and location.

Therefore, the defined hierarchy of deployment criteria for classroom attendance tracking systems will help flexibly choose the target monitoring solution, ensuring simplicity and efficiency of classroom sessions [1], avoiding unnecessary formalities, and simplifying interaction among participants of the educational process.

### References:

1. Neroda T. Professional competencies leveling approaches of academic refugees as technical specialties trainee. Information, Technologies: Science, Engineering, Technology, Education, Health (MicroCAD-2023): Abstracts of XXXI International Scientific-Practical Conference, Scientific publication. Kharkiv, 2023. P. 863.