

# Applying Technology of Rapid Development of Low-Cost Indoor-Services for Various Use-Cases

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*Abstract*— Every day people visit museums, shopping malls, universities and other buildings. Many of these buildings have complex structure: it is not easy to find the shortest way from point A to point B. Our technology allows developing low cost indoor navigation systems for a wide range of buildings in a short period of time. On the one hand, such services give visitors of a building better experience, on the other hand, the it is possible to analyze behavior and demands of visitors by means of these services.

Visitors of our booth could try searching information and experience the indoor-navigation service for Saint Petersburg State University of Aerospace Instrumentation on the various devices and operating systems. These are the basic cases of

using the service, which will be introduced in our demo: location detection, path finding and working with database.

In addition, visitors can try the QR-based navigation system in the real building (University of Jyväskylä).

Visitors will find out the structure of the service that allows creating such services rapidly.

Moreover, we will show several examples of useful applying of indoor navigation services in various type of buildings: universities, conference, exhibitions, shopping malls, etc. For instance, shopping mall navigation with integrated categories search services, which allows visitors to find the right purchase while shops owners will be sure that visitors do not miss their shops.