5. Division of traffic and pedestrian passages at different levels (arrangement of underground passages and parking lots).

High-density housing system is characterized by:

- Effective planning and maximum engagement of land fund;
- Clear division of traffic and pedestrian zones, absence of automobiles access into inner yards;
- Modern infrastructure which is not dominant;
- Housing blocking which separates public and private spaces;
- Public function, trade facilities and welfare support on ground floors;
- Flat planning is based on flexible principles and is individual for every resident.

The following directions may be considered to be vastly prospective in the domain of high-density housing use:

a) Development of the sites with complicated landform;
b) Use of non-housing stock roofs;
c) Housing stock tightening within available housing units at account of high-density.

Thus, we have analyzed national and foreign experience of increasing residential housing density and detected modern planning features of high-density medium-rise residential buildings.

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CORRELATION-EXTREME SYSTEM OF INERTIAL
DEAD RECKONING CORRECTED BY LINEAR LANDMARK

The purpose of the work is to solve the problem of external orientation by searching linear landmarks on images of geophysical field, received from UAV.

Currently existing navigation systems of unmanned aerial vehicles (UAVs) are characterized by a high dependency on the information received from the satellite navigation system (SNS), such as GPS/GLONASS. Application of these