

Warszawa, dn. 2018-04-10

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Nie-wizualne determinanty spójności i czytelności środowiska wybudowanego w kontekście relacji człowieka ze środowiskiem.

Wytyczne do projektowania i ewaluacji przestrzeni miejskiej

### **ABSTRACT OF PhD THESIS**

First subject indicated by the title concerns nonvisual perception of legibility and coherence of built environment. Second one refers to verification and evaluation of effects of design process in terms of users' quality of life. It is focused especially on nonvisual experience of legibility and coherence of built environment. Studies about spatial functioning of visually impaired and blind persons were conducted to analyze these two subjects.

These two subjects divide the dissertation into two parts. Main goal of the first part was to identify the indicators of nonvisual legibility and coherence of built environment (chapters II – IV). Their connections with quality of urban life and quality of architecture were analyzed. It is shown that taking this indicators into account while design process let establish if proposed design solutions elevate the quality of built environment measured by the quality of urban life.

The second part's main goal concerns the use of the knowledge about nonvisual perception of built environment in architectural and urban design process. Chapters V, VI and VII analyze the utilization of users' perspective in design process. Three aspects were discussed: 1) theoretical assumptions and determinants of effectiveness, 2) diagnosis of design practice, 3) guidelines for the use of users' perspective in design process. Three stages of the use of this perspective were analyzed in chapters V and VI: 1) taking into account users' perspective, 2) users' participation in design process, 3) conducting the researches of users' perspective during the design process. Chapter VII shows the guidelines for effective conducting the research of users' perspective that serve the architectural and urban design process. Research of nonvisual experience of built environment were described in wider context of research methodology.

Chapter VIII close the dissertation with conclusions from both parts and consideration about future research.

**Key words:** legibility and coherence, phenomenology in architecture, nonvisual perception, design process, universal design, evidence-based design, participatory design, research in design process.

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