UiO / IFI / PUT
Spring 2025
Questions on PUT

1. According to Mark Weiser's vision, ubiquitous systems should be **invisible**. Does this mean that such a system should be pro-active? If so, on what kind / type of information should (or could) a ubiquitous system be based upon? Provide a concrete example to illustrate your answer.

2. Consider the notion of **localized scalability**: i) explain what this notion is, ii) provide a concrete example (i.e. refer to a scenario that currently does exist), and iii) differentiate it from the classical notion of large-scale (distributed) scalability.

3. Point out a research challenge that applies strictly to pervasive computing and not to the so-called classic distributed systems and, while justifying, provide its definition.

4. Consider the notions of pervasive computing and ubiquitous computing. Clearly state the difference between both and provide an example of a pervasive computing application / usage scenario.

5. In ubiquitous computing, there is the notion of *smart spaces*. What is a smart space? Provide a scenario in which a user enters a smart space and interacts with it.