End-User Service Composition in Mobile Pervasive Environments

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Pervasive services

End-User Service Composition in Mobile Pervasive Environments
Adding mobility
End-user composition: what? why?

- AAL - Social interaction
- text2speech
- SMS
- Entertainment
- eLearning
- Tourism
- AAL appointment

End-User Service Composition in Mobile Pervasive Environments
Challenge: user diversity
Challenge: service composition

Search

Composition notation

Semantics

Recommend

Understandability Consistency
Challenge: dynamicity

- Devices come and go
- Services appear and disappear
- Services vary in quality
- Users’ tasks and needs vary in changing contexts
Challenge: what did I compose?

Simulation: what if?

Debugging: why not?
Challenge: platforms

Desktop

Smartphones

Composition time

Execution time

Windows 7

End-User Service Composition in Mobile Pervasive Environments
Potentials

App availability through marketplaces

Powerful smartphone technology

Emerging end-user tools

App Inventor
Thank you!

- More information at

  www.ubicompforall.org