eComP: an Architecture that Supports P2P Networking Among Ubiquitous Computing Devices

Achilles Kameas [1] , Irene Mavrommati [1] , Dimitris Ringas [1] , Prashant Wason [1, 2]

[1] Computer Technology Institute
Research Unit 3
Ambient Information Systems Group

[2] Indian Institute of Technology
Guwahati India

Email: {achilles.kameas, irene.mavrommati, riggas, prhwason}@cti.gr

Abstract

In the new paradigm of computer use, the computer ceases to exist as an integrated multi-task device, but disintegrates into a task-oriented collection of networked devices. These devices do not resemble to computers yet they have computational abilities. None of these concepts will be realised without appropriate support from communication technologies – P2P networking being the primary candidate. This paper describes part of the research being conducted in the Extrovert Gadgets project geared towards applying P2P computing solutions to the context of networked everyday objects.