

Abstract

Managing the growing influx of notification data being pushed at mobile phone users is an increasing necessity in today's world of social media and ubiquitous computing. The challenge of effectively managing a diverse range of notification types, and analysing their current context with relation to an individual user, is a difficult task.

This dissertation proposes a notification management framework which hopes to contextually deliver notifications at the peak opportune time of the user, thus relieving them of distractions caused by contextually irrelevant notifications.

The proposed design is implemented using an *info-bead modeling approach and fuzzy inference system* and the final solution is evaluated through a comparison between simulated and expected results for two real-world notification data-sets.

This dissertation concludes that the solution is effective when rich data sources are available and the fuzzy inference system is adequately personalised to the user.