

Define a PhD thesis topic

- Develop a wearable device that can act as a virtual assistant
- What is the human breaking point for tech notification
- Context-aware notification spam filter
- System that detects the urgency level of notifications
- Generalizable pattern in everyday attention distribution
- Building a unified model representing users attention
- Managing social expectations in (mobile) instant massaging
- Distractor – keeping people busy through proactive recommendations
- Notification sharing for total preservation of attention (global optimization of total attention)
- Human attention operating system

Follow up Actions
for this Workshop

- Putting together a (white) paper on best practices to display notifications
- Creating a categorization of the importance of notifications
- User control/Customizing notifications
- How interruptions influence cognitive resources
- Effect of interruptions and task switching
- Find features that could predict the importance of notifications
- Overview about how to provide notifications non visually and how much information can we transport
- Develop a multi-device framework to collect about attention and notifications
- Raise awareness for better notification handling possibilities
- Develop standardized evaluation methods
- Something (a whitepaper) to give to product teams to make the case why to take attention with care
- Gathering and evaluation strategies to deal with notification overload
- Joint declaration of researchers to Google (and Facebook) to open their APIs

No time high gain –
what do?

- Take a common used application A/B test disabled notifications vs. enabled notifications see the effect on connectedness, app usage, ...
- Study comparing no notifications/current notifications/customizable
- Comparing different (ambient) presentation modes

- Go on Twitter (or similar) and search for what people say about notifications (grounded theory)
- Bring our prototype to an Android watch face
- Survey paper about existing models of human cognition with focus on shortcomings
- Survey paper about definitions for the `_importance_` of notifications
- Min/max/opt. of notifications people should get (when do people freak out)
- Writing a newspaper column describing that people get the notifications they subscribed to (and it is their problem)