
Promoting Well-being via Proxemics Data Analysis

Promoção de Bem-estar/Qualidade de Vida através de Análise de Proxémica

In Smart and Sustainable Cities

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Centro de Congressos de Lisboa

Structure

- Multidisciplinary unit: informatics and psychology
- 2013 FCT evaluation: "Good" (Multidisciplinary; small unit; high experimental intensity)
- Private, not-for profit entity; secondary management institution: COFAC c.r.l.

Team

- 32 researchers (23 Ph.D.)
- SITI: Informatics Systems and Technologies 
- CTIP: Cognitive and Technology Intensive Psychology 

Focus

- Promote well-being via pervasive, non-intrusive, and networked technology

Main Research Lines 2013-2020

- **Internet Science**
 - Pervasive wireless systems
 - Social Internet design (User-centric networking)
- **Cyberpsychology**
 - Assessment/rehabilitation of psychological disorders



Proxemics Data
prox(imity) + -emics
E. T. Hall, 1963

Behavior correlation and inference
via pervasive, non-intrusive technology

Scientific Areas

How

Community/Group
Dynamics

Early detection of
neuro/psychological
disorders

Traces*

Data Mining

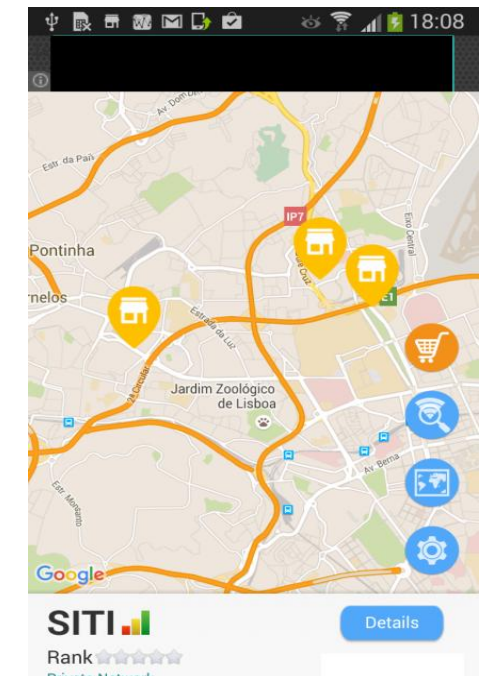
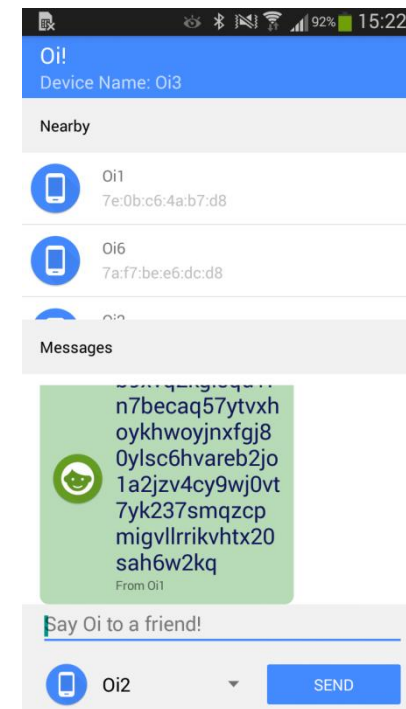
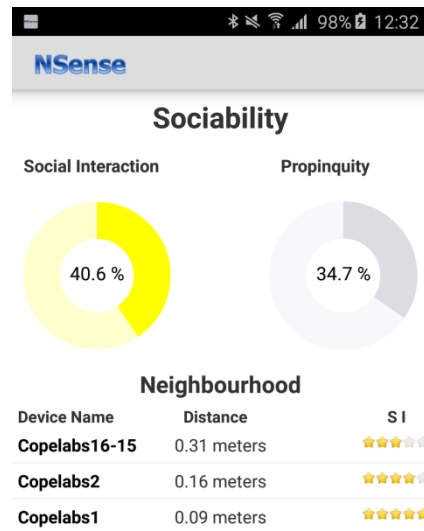
Physical
psychological
proximity
patterns

Social cohesion
and support

Mild Cognitive
Impairments

Depression

*Technology
developed in
COPELABS/SITI
and from partners



NSense

- **Purpose:** Nearness inference
- **Status:** traces; publications; open-source software
- **Support:** COPELABS

PerSense Mobile Light*

- **Purpose:** Analyze roaming habits and spaces
 - **Status:** traces; publications; IPR*
 - **Support:** H2020 UMOBILE (gr nr 645124); EU IST FP7 ULOOP (gr. nr 721458)
- *Patent pending

Oi!

- **Purpose:** Data transmission with intermittent Internet connectivity
- **Status:** traces; publications; open-source software
- **Support:** H2020 UMOBILE

Ddicas

- **Purpose:** Recommendations over Wi-Fi
- **Status:** Pilots - LxFactory, Lisbon; Câmara Municipal de Portimão (Rua das Lojas)
- **Support:** EU IST FP7 ULOOP



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