



HUMANOID UI[®]

by Prasad

Fisheye Lens Based Contextual Proactive User Interface

OBJECTIVE

HUMANOID UI for Mobile devices

Highly smart user interface for mobile devices that works similar to how we humans look, sense and proactively interact with other people and the environment according to scenarios & critical situations

More particularly an intelligent contextual UI that works without expecting a user input to start interacting with users unlike other user interfaces which only give output for a given input.

Aim's to create a platform for contextual proactive user interface thereby to explore, develop and utilize various applications according to requirements.

PROBLEM STATEMENT

Market Analysis and Drawbacks of Existing UI

- Smart phone are not really smart | lacks user and environmental awareness
- Missed - Calls, messages, mails, calendar could be a **“Missed Opportunity”**
- Loss of user’s valuable time in critical situations
- Users have to be watchful and check their mobile devices every time for the missed parameters
- Users are forced to take the mobile device to check missed or unattended parameters.
- Limitations with the best alerting system currently available in market | Samsung Smart Alert
- Dependency on wearable computing devices
- Blind Interaction | Lack of context awareness and real personalization with present Voice interaction and Intelligent personal assistant systems
- Users differ with varying expectations and requirements | But persistently addressing all the users commonly doesn’t always makes sense



PROJECTED LOOK OF THE FINAL PRODUCT

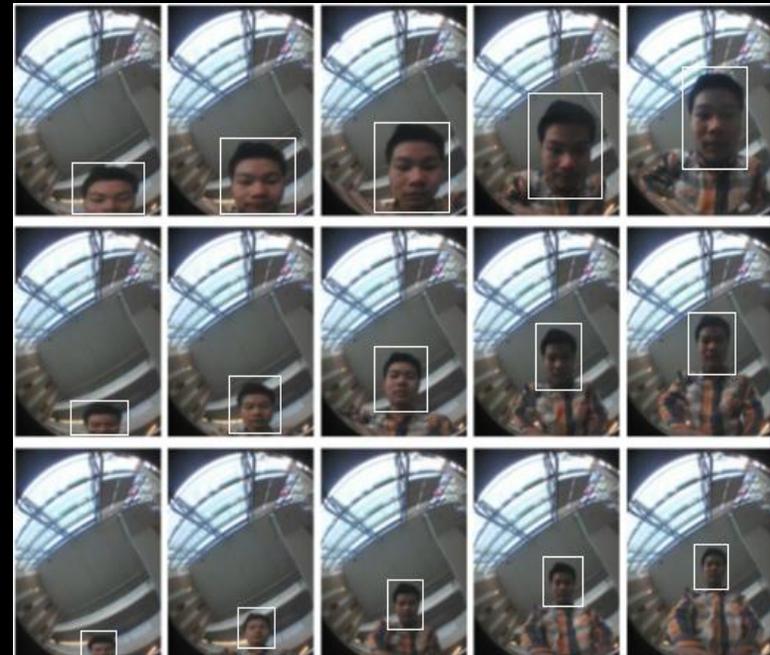
Integration of Fisheye Lens on the Front and Both sides of Mobile Devices for Scanning and Sensing the Environment & Users in 360 Degrees



Note:

1. The present system works without compromising the primary functionality of the secondary camera for video call, selfie photos, face recognition, ergonomics etc.
2. Lens can be made with Scratch resistance, shatter proof and toughening treatment just like display for durability
3. The system utilizes MIC and the ambient light sensor in addition to active digital image processing to enhance the precision in sensing and interacting with users in the environment

COMPARISON BETWEEN SECONDARY AND FISHEYE LENS CAMERA WITH USER RECOGNITION

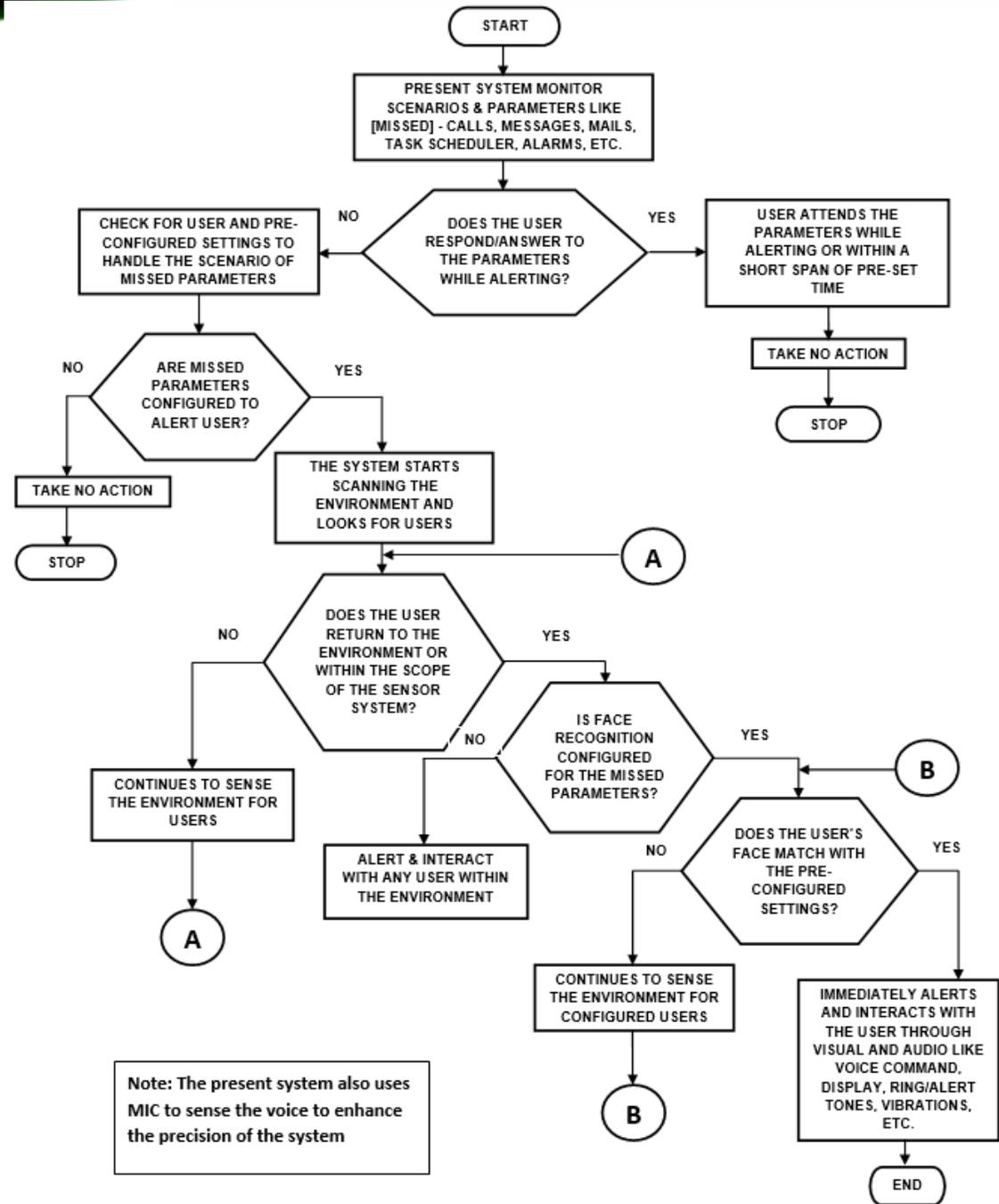


Note: This is just a prototype and a dedicated design can capture enormous amount of environmental information for further processing

IMAGES CAPTURED WITH FISHEYE LENS



FLOW CHART



SOLUTION

- Smart, natural and human like proactive user interaction according to context
- Peace of mind for users from being watchful of their mobiles devices
- Saves user's valuable time in critical situations
- Reduces the need for taking the mobile devices
- Even reduces the user presenting themselves before mobile for interaction
- Non proximity Gesture control
- Best part is even portion of body is sufficient for sensing, alerting and interacting with users
- Humanoid UI keep users timely updated with all their day-to-day activities
- Reduces the dependency on wearable computing devices
- Human like Intelligent Personal Assistance System | Real Personalized interaction
- Entirely new gaming experience | Potential to play motion sensing games
- Scalability and Enormous Potential Applications
- User Interface with Potential Beyond Human Ability
- Smartly Manages Single and Multi User Environment
- Potential to implement AAA for additional security.

Thank you

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