

DEVELOPMENT OF COMPUTING SYSTEM FOR HUMAN BODY CONDITION ASSESSMENT BASED ON ENERGY EMISSION STUDIES FOR HEALTHCARE & SECURITY APPLICATIONS

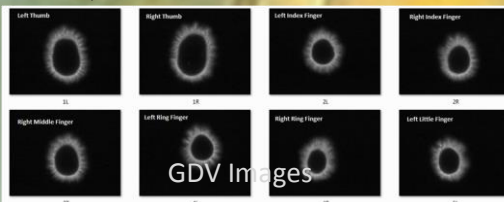
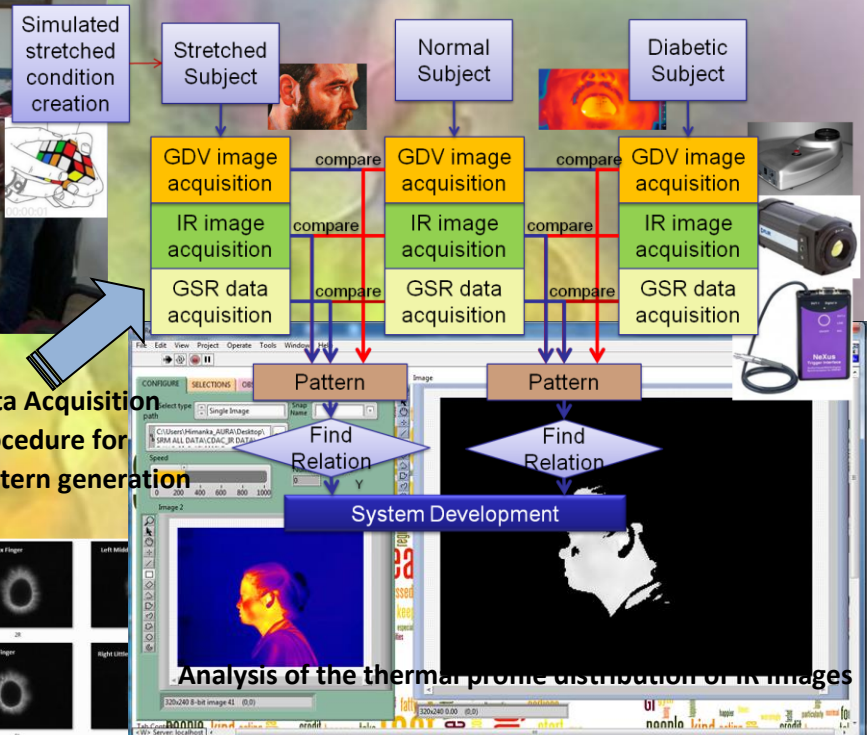
Objective

- ❖ To develop a system Set-up for “Application oriented Visual Perception on Human Body Energy Emission” and establish it through pattern recognition techniques
- ❖ To develop “Interpretation Software” for integrating in Advanced Computing Systems for Medical Diagnosis and Security application



Hospital based Data acquisition of IR image by C-DAC team at SRM Medical College, Hospital and Research Centre, Chennai

Data Acquisition procedure for pattern generation



Salient features:

- Health care application:**
 - Differentiability between Diabetic and Non Diabetic subjects based on IR (Thermal) image analysis of selected body parts (Hand, Face, Ear, Eye etc.)
 - Analysis of 10 finger Gas Discharge Visualization (GDV) images and Galvanic Skin Response of the same subjects for cross validation to establish a diagnostic/prognostic system.
- Security Application:** Stress analysis of IR and GSR data in simulated condition using Stroop Test and Rubik Cube puzzle to indicate suspicious behavior of a person.



ICT & Services Group:

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