International Institute of Information Technology, Hyderabad

MS/PhD Thesis Evaluation Request Form

Name of the Candidate: Siddharth Kherada

Roll no: 200702048

Advisor(s): Prof. Anoop M. Namboodiri

Thesis title: Component Based Modeling of Scene Images

Key contributions: (List top 4-5 points)

1. Proposed an accurate component based model for representing 3D textures characterized by shadows, specularity and luminance.
2. Proposed a pixel function model to achieve real-time rendering of 3D textures represented using the above model.
3. Used the above model in analysis of inscriptions and extended it to develop a method for binarization of complex color scene text.
4. Experimental evaluation of the methods and comparison with existing techniques.

Nature of the contribution: (Tick all that apply)

☐ Development of new theory, concept, or algorithm with a significant impact	☐ Enhancement or modification of known theory or concept
☐ Experimental work with a significant impact to theory/practice	☐ Some experiments to validate the concepts
☐ Building a part/whole of a system with a significant functionality or enhancement in performance/functionality.	☐ Enhancements to parts of an existing system

[Signature of the candidate] **[Signature of the advisor]**

Date:

Give the following additional details related to the thesis. List all that apply.

- **Publications:** List all applicable publications related to this work. Submit the reviews from experts received for each. Separate them into Journals, Conferences, and Technical Reports.
- **Patents:** List the patents applied for or granted.
- **Demonstrations:** List the serious demonstrations of the work contained in the thesis.
- **Software packages for download/distribution:** List the software packages made available to the community with statistics on download, if available.