Computer graphics Applications

Jefwa ngombo nicholas

ngombonj@gmail.com

0722641884

Computer graphic Applications

Geometry/drawing

- Representation of solid and surface geometry of objects
- Applied in areas tjat include engineering drawings, statistical and mathematical visualisation, cartography (maps), diagramming

Animation

- Descriptions for surfaces that move or deform over time
- Applied to characters animation
- Physical animation e.g particle motion, rigid body motion
- Virtual reality

Computer graphic Application

Rendering

- Converts a model into an image on the screen
- Photorealistic rendering
 - simulating light transport to get physically based realistic photo images
 - Applied in photography
- Non photorealistic rendering
 - applying some kind of style
 - Applied in stylistic drawings

Computer graphic Application

Imaging

- Image acquisition or image editing by scan systems
- Application areas include medical scanning, document scanning

Computer graphic application areas

- Computer Graphics has numerous applications, some of which are listed below:
- © Computer graphics user interfaces (GUIs) A graphic, mouse-oriented paradigm which allows the user to interact with a computer.
- Business presentation graphics "A picture is worth a thousand words".
- ? Cartography Drawing maps.

- Photo Enhancement Sharpening blurred photos.

Computer graphic application areas

- Engineering drawings mechanical, electrical, civil, etc. Replacing the blueprints of the past.
- **Typography** The use of character images in publishing replacing the hard type of the past.
- ② Architecture Construction plans, exterior sketches replacing the blueprints and hand drawings of the past.
- ? Art Computers provide a new medium for artists.
- I Training Flight simulators, computer aided instruction, etc.
- ② Entertainment Movies and games.
- Simulation and modeling Replacing physical modeling and enactments