



Figure 3. Simulation results of shape-from-shading problem. (A) Forward-inverse optics model for simultaneous estimation of surface orientation, discontinuity location and direction, and light source direction in the shape-from-shading problem. *The model is comprised of three modules: the discontinuity module (left), the surface orientation module (middle), and the light source direction module (right).* (B) A natural intensity image of a mountain landscape. (C) Detected discontinuity locations. (D) Reconstructed intensity data with the estimated direction of the light source (arrow). (E) Depth map reconstructed from the surface orientation shown as a grey level (brighter: higher; darker: lower). (F) Depth map reconstructed from the surface orientation shown as a perspective view.

