

Mountain Photo Sphere: An Android Application of Mountain Hiking Street View

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Abstract : Land navigation technology that is being developed is Google Street View to provide 360° street views, enabling the user to know the road conditions physically with the photo display. For climbers, especially beginners, detail information of climbing terrain is needed so climbers can prepare supplies and strategies before climbing. Therefore, we built a mountaineer guide application named Mountain Photo Sphere. This application displays a 360° panoramic view of mountain hiking trail and important points along the hiking path and its surrounding conditions. By combining panoramic photos 360° and tracking paths from coordinate data, a virtual tour will be formed. It is built using Java language and Android Studio. The hiking trail map composed by Google Maps API (Gaining access to google maps), Google GEO API (Gaining access to google maps), and OpenStreetMap API (Getting map files to be accessed offline on the Application). This application can be accessed offline so that climbers can use the application during climbing activities.

Keywords : google street view, panoramic photo 360°, mountain hiking, mountain photo sphere

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