

62. PHONOTATE: AUTOMATIC PHOTO ANNOTATION BY ENVIRONMENT SENSING USING SMARTPHONES

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A camera phone is a valuable tool for photography. As Camera Phones have become more widespread, photos are now used in many places. Since a large number of photos are taken and stored every day, it takes time to classify and organize them and Image Retrieval experiences the most Impact. Thus there is a need to be able to retrieve desired images within a short amount of time and high amount of accuracy. So to address this issue, we propose a new system, Phonotate- an Automatic Photo Annotation process which intellects the environment and creates respective tags or labels which describes the photo taken. To recognize the activity and the other aspects we are using the smart behavior and the capabilities of smartphones to bridge the gap in-between Image Annotation and Image retrieval. Automatic Image Tagging here is done only when capturing the photo. The embedded hardware sensors present in today's smartphones helps a lot in sensing, learning and describing the environment which is of great assistance for today's Image Retrieval Systems. Top end mobile phones include a number of specialized (e.g., accelerometer, compass, GPS) and general purpose sensors (e.g., microphone, camera) that enable new people-centric sensing applications.

Index Terms—Phonotate, Automatic image annotation, image tagging, Sensors, Smartphone, Image Retrieval System.

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