# RESEARCH PAPER

# ABSTRACT

**Topic : Implementation and evaluation of data recovery using TestDisk and PhotoRec**

TestDisk is a free and open-source data recovery utility. It is primarily designed to help recover lost data storage partitions and/or make non-booting disks bootable again when these symptoms are caused by faulty software, certain types of viruses or human error (such as accidentally erasing a partition table). It can used to collect detailed information about a corrupted drive, which can then be sent to a technician for further analys

[PhotoRec](https://www.cgsecurity.org/) is file data recovery tool designed to recover lost files including video, documents and archives from hard disks, CD-ROMs, and lost pictures (thus the Photo Recovery name) from digital camera memory. PhotoRec ignores the file system and goes after the underlying data, so it will still work even if your media's file system has been severely damaged or reformatted.

PhotoRec is a companion program to [TestDisk](https://www.cgsecurity.org/wiki/TestDisk" \o "TestDisk), an application for recovering lost partitions on a wide variety of file systems and making non-bootable disks bootable again. PhotoRec works with hard disks, CD-ROMs, memory cards (CompactFlash, Memory Stick, Secure Digital/SD, SmartMedia, Microdrive, MMC, etc.), USB memory drives, DD raw image, EnCase E01 image, etc.

By combinig TestDisk and PhotoRec we can overcome the limitatons of TestDisk and we can recover all lost data from any file system. We can also recover data from CD-ROMs , memory card etc… This research is for combining the above explained tools for effective data recovery and avoid the limitations.