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Title

Long-term storage of disk drives for archival and other applications

Abstract

Long-term storage of disk drives for archival and other applications Andrei Khurshudov, Ronald Watts, and Troy Merrell Seagate Technology, Longmont, Colorado

New applications for disk drives are being developed at a rapidly increasing rate. These applications bring not only new and exciting opportunities, but new technical challenges as well.

As disk drive capacity increases and the cost per Gigabyte of storage decreases, previously unrealized opportunities become real. These include new applications such as automotive, consumer, and archival storage, which demand long term data retention. A key question being asked is: can stored data be recovered 5, 10, 50, or even 100 years after being written? What can be done to enhance long term data storage? What are the optimal storage conditions in terms of packaging, temperature, humidity? What data do we have today to answer these questions? What kind of design changes and tests are needed to ensure drive reliability in the long-term storage environments?

This presentation will address some of the above questions.

Biography

Dr. Andrei Khurshudov is a Director of Advanced Reliability at Seagate Technology. His field of expertise is reliability and technology of magnetic hard disk drives. Prior to his work at Seagate, Dr. Khurshudov focused on the development of hard disk drives at Samsung Information Systems America, IBM Corporation, and Hitachi Global Storage Technologies.

Andrei received his Ph.D in Mechanical Engineering (1992) from the A.A. Blagonravov Mechanical Engineering Research Institute of the Russian Academy of Sciences. He has published over 30 technical papers in referred journals, holds multiple US patents, and has published a book en

Title The essential guide to computer data storage: from floppy to DVD (2001).

Talk to be given at the Storage VisionsTM 2007 Conference at the Flamingo Hotel, Las Vegas, NV January 6th and 7th 2007