Abstract

Child pornography is the fastest growing criminal activity in all over the world. This crime is regarded as being extremely harmful; its prosecution is of the highest priority for police forces and law enforcement organizations around the world. The law of possession and distribution of CP images not only applies to regular citizens, but also to police units that they not allowed to gather and catalogue evidence for future reference. To overcome from this problem, the paper presents a tool which is able to catalogue high- and low-level metadata of the evidence material and provides fast search to retrieve such evidence in suspect’s system. It also provides the relation between the previous cases and current cases. That would be helpful to provide the protection to victims, capturing the offenders in effective manner and also reduce the tedious works of police units.

References

triage process model In: Conference on digital forensics, security and law.
    retrieval system In: ISCAS (2) IEEE, pp 1541-1544.
    In: Innovative production machines and systems virtual conference.
    Algorithm—a novel tool for complex optimizationproblem. In: Proceeding of the 2nd
    international virtual conference on intelligent production machines and system (IPROMS 2006).
  - Mohand-SaoEd Hacid. Cyril Decleir, and Jacques Kouloumdjian, A Database Approach
    for Modeling and Querying Video Data IEEE Transaction on Knowledge And Data Engineering,
    Vol. 12, No. 5, September/October 2000 729.
    high-resolution images with the use of NuDetective Forensic Tool. In: Proceeding of the fifth
    international conference on forensic computer science— ICoFCS 2010, Brasilia, Brazil.
  - Osama A. Lotfallah, Martin Reisslein, and Sethuraman Panchanathan, Fellow,
    Adaptive Video Transmission Schemes Using MPEG-7 Motion Intensity Descriptor IEEE
    Transactions On Circuits And Systems For Video Technology, Vol. 16, No. 8, August 2006
    929.
    legislation and global review, 6th edn. http://books. google. pl/books?id=8iqq OwAACAAJ.
    Accessed 30 Sept2011
  - Stefan Berchtold, Daniel A. Keim, Indexing the Solution Space: A New Technique for
    Nearest Neighbor Search in High-Dimensional Space IEEE Transactions On Knowledge And
    Data Engineering, Vol. 12, No. 1, January/February 2000 45
    libraries of media art through metadata. In: International workshop on database and expert
    systems applications, pp 269273
  - Javier Ruiz Hidalgo, and Philippe Salembier, On the Use of Indexing Metadata to
    Improve the Efficiency of Video Compression IEEE Transactions On Circuits And Systems For
    differences. In: CIARP&apos;06: Proceedings of the 11th Iberoamerican conference on
    progress in pattern recognition, image analysis and applications. Springer-Verlag, Berlin,
    Heidelberg, pp 726–732. doi:10. 1007/11892755_75
  - Manjunath BS, Salembier P, Sikora Th (2002) Introduction to MPEG-7 media content
    description interface. Wiley, Chichester
    Available online: http://news. com.com/P2P+group+launches+site+to+combat+child+porn/2100-1025_3-5488290. html [Accessed:
    June 24, 2005]


Index Terms

Computer Science

Pattern Recognition

Keywords

Child pornography  Forensic analysis  MPEG-7 descriptor