REQUIREMENTS DOCUMENT

Batch Rename PDF files

By

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Wright State University,2017

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Include appendix?

1. Introduction

This document contains the requirements for Batch Rename PDF files system.

May want to specify what exactly "this" is. Or add "This document"

1.1. Purpose of this Document

This is intended to provide documentation of requirements for Batch Rename PDF files system.

1.2. Scope of the Product

The Scope of the product is to only rename the PDF files existing in a folder by parsing the PDF document to extract required details mentioned in one of the below sections. The product will not in any case edit or manipulate the contents of the PDF or delete any existing file.

1.3. Definitions, acronyms and abbreviations

faybe change ne title of this ection, onsidering there no acronyms r abbreviations the terms.

Term	Definitions
Subject Classification	Broad category of the documents to be renamed.
Title	Title of the document. E.g.: Research paper title
Year	4-digit number representing the calendar year of the published document
Conference/Journal name	Venue of the document published
Author name	Name of the person(s) authored the document
Affiliation	Name of the institution/organization to which authors are affiliated

Table 1 - Definitions of terms

2. General Description

Batch Rename PDF files is a system which will rename the PDF files in a folder in batches with a specific format by extracting relevant information from within the PDF file.

2.1. Functional Requirements:

Was this decided upon by your team? What is the scenario when some of the information is not available?

May want to

reword this.

- 1. The product must rename the PDF files within a directory by extracting one or many of the below mentioned information from within the PDF file according to the user choice.
 - a. The subject classification.
 - b. The title of the paper.
 - c. The year of publication.
 - d. Name of conference or journal of publication
 - e. List of author names (First Middle Last)
 - f. List of Institutions affiliated with the author.

2. Renaming should follow the below format. SUBJECT CLASSIFICATION TITLE YEAR VENUE AUTHORNAMES AFFILIATIONS.pdf

- 3. Product should report the number of files successfully renamed out of the given batch.
- 4. If any required information is missing in the pdf document, rename it with available information from the pdf document. If none of the required information are available, skip renaming the pdf document
- 5. If the pdf is password protected or not readable skip renaming the pdf document.
- 6. Files with .pdf extension should only be processed.
- 7. The product should not in any case edit or manipulate the contents of the PDF or delete any existing file

2.2. Performance Requirement:

- 1. Product should be able to rename a given batch of pdf files with 95% accuracy with reasonable efficiency.
- 2. Product should not crash or hang.
- 3. Proper error handling with error/log message to user.

2.3. Maintainability:

Source code should be documented and maintainable.

2.4. Platform/Environments:

Product should be available for Windows, Mac and Linux platforms.

3. User Interface

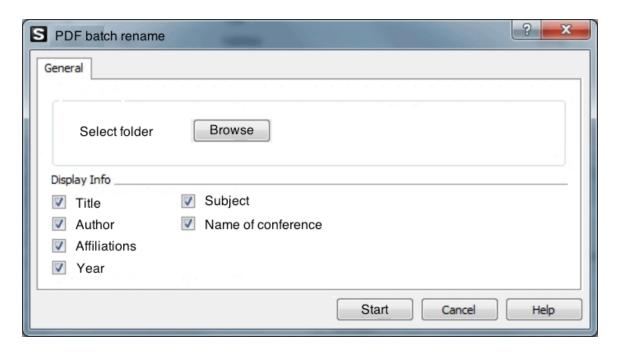


Figure 1: User Interface of PDF Batch Rename files

May be useful to include a text box that displays the folder the user selected. There is nothing to view what folder is about to be batch

renamed.

Figure 1 is a sample mock - up of the user interface to be developed in the product. May be useful to Below are the functionalities expected from the user interface.

- 1. It must include actionable buttons namely
 - a. Browse Button to input the folder where documents are to be renamed
 - b. Checkboxes Check box indicating the labels to be included while renaming the pdf documents
 - c. Start Initiate the process of renaming the documents
 - d. Cancel Gracefully stop the running process
 - e. Help To provide user documentation of the product

4. Acceptance Test

Following are some sample snapshots of PDFs from which the product should be able to extract the required information to rename.

Complete set of documents are available in the following link¹

Communicated by Richard Lippmann =

Use of an Artificial Neural Network for Data Analysis in Clinical Decision-Making: The Diagnosis of Acute Coronary Occlusion

William G. Baxt
Department of Medicine, University of California,
San Diego Medical Center, San Diego, CA 92103 USA

Figure 2: Research Paper Sample 1

Title: Use of an Artificial Neural Network for Data Analysis in Clinical Decision-Making

Author(s): William G. Baxt

Affiliation: University of California

Year: 1990 Subject: TBD

2014 IEEE Congress on Evolutionary Computation (CEC) July 6-11, 2014, Beijing, China

Evolving a Fuzzy Goal-Driven Strategy for the Game of Geister: An Exercise in Teaching Computational Intelligence

Andrew R. Buck, *Student Member IEEE*, Tanvi Banerjee, *Student Member IEEE*, and James M. Keller, *Fellow IEEE*

Figure 3: Research Paper Sample 2

Title: Evolving a Fuzzy Goal-Driven Strategy for the Game of Geister Author(s):

Andrew R Buck, Tanvi Banerjee, James M Keller

Affiliation: IEEE

Year: 2014 Subject: TBD

Name of Conference: IEEE Congress on Evolutionary Computation

The Collateral Damage of Internet Censorship by DNS Injection *

Sparks Hovership Nebuchadnezzar Zion Virtual Labs zion.vlab@gmail.com Neo[™] Hovership Nebuchadnezzar Zion Virtual Labs zion.vlab@gmail.com

Tank Hovership Nebuchadnezzar Zion Virtual Labs zion.vlab@gmail.com

Smith Hovership Nebuchadnezzar Zion Virtual Labs zion.vlab@gmail.com Dozer Hovership Nebuchadnezzar Zion Virtual Labs zion.vlab@gmail.com

Figure 4: Research Paper Sample 3

Title: The Collateral Damage of Internet Censorship by DNS Injection

Author(s):

Spark,

Neo, Tank,

Smith, Dozer

Affiliation: Zion Virtual Labs

Year: NA Subject: TBD

Mobile Data Charging: New Attacks and Countermeasures

Chunyi Peng Chi-yu Li Guan-hua Tu Songwu Lu Lixia Zhang

Department of Computer Science, University of California, Los Angeles, CA 90095
{chunyip, lichiyu, ghtu, slu, lixia}@cs.ucla.edu

Figure 5: Research Paper Sample 4

Title: Mobile Data Charging: New Attacks and Countermeasures

Author(s):

Chunyi Peng, Chi-yu Li, Guan-hua Tu, Songwu Lu, Lixia Zhang

Affiliation: University of California

Year: NA Subject: TBD

"Foiling the Cracker": A Survey of, and Improvements to, Password Security †

Daniel V. Klein

Software Engineering Institute Carnegie Mellon University Pittsburgh, PA 15217 dvk@sei.cmu.edu +1 412 268 7791

ABSTRACT

Figure 6: Research Paper Sample 5

Title: Foiling the Cracker Author(s): Daniel V Klein

Affiliation: Carnegie Mellon University

Year: NA Subject: TBD

QryGraph: A Graphical Tool for Big Data Analytics

Sanny Schmid, Ilias Gerostathopoulos, Christian Prehofer Fakultät für Informatik Technische Universität München Munich, Germany {schmidsa, gerostat, prehofer}@in.tum.de

Figure 7: Research Paper Sample 6

Title: QryGraph: A Graphical Tool for Big Data Analytics Author(s):

Sanny Schmid, Ilias Gerostathopoulos,

Christian Prehofer

Affiliation: Fakultät für Informatik Technische Universität München Munich, Germany

Year: NA Subject: TBD

Rethinking High Performance Computing System Architecture for Scientific Big Data Applications

Yong Chen*, Chao Chen*, Yanlong Yin[†], Xian-He Sun[†], Rajeev Thakur[‡], William D Gropp[§]

Figure 8: Research Paper Sample 7

Title: Rethinking High Performance Computing System Architecture for Scientific Big Data Applications

Author(s):

Yong Chen, Chao Chen,

Xian-He Sun Rajeev Thakur,

William D Gropp

Affiliation:

Texas Tech University, Illinois Institute of technology, Argonne National Laboratory, University of Illinois Urbana-Champaign

Year: 2016 Subject: TBD

Name of Conference: IEEE TrustCom-BigDataSE-ISPA

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†Department of Computer Science, Illinois Institute of Technology, Email: yyin2@ttu.edu, sun@ttu.edu
†Mathematics and Computer Science Division, Argonne National Laboratory, Email: thakur@mcs.anl.gov
§Department of Computer Science, University of Illinois Urbana-Champaign, Email: wgropp@illinois.edu

A Named Data Network Approach to Energy Efficiency in IoT

Oliver Hahm Inria Emmanuel Baccelli Inria $\begin{array}{c} {\rm Thomas~C.~Schmidt} \\ {\rm HAW} \end{array}$

Matthias Wählisch FU Berlin Cédric Adjih Inria

Figure 9: Research Paper Sample 8

Title: A Named Data Network Approach to Energy Efficiency in IoT Author(s):

Oliver Hahm Inria, Thomas C. Schmidt HAW, Matthias Wählisch FU Berlin, Cédric Adjih Inria

Affiliation: NA Year: 2016 Subject: TBD



International Journal of Medical Sciences

2017; 14(2): 181-190. doi: 10.7150/ijms.17119

Research Paper

Immune Cell Repertoire and Their Mediators in Patients with Acute Myocardial Infarction or Stable Angina **Pectoris**

Wenwen Yan¹, Yanli Song², Lin Zhou¹, Jinfa Jiang¹, Fang Yang³, Qianglin Duan¹, Lin Che¹, Yuqin Shen¹⊠, Haoming Song^{1™}, Lemin Wang^{1™}

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Received: 2016.08.05; Accepted: 2016.12.21; Published: 2017.02.08

Figure 10: Research Paper Sample 9

Title: Immune Cell Repertoire and Their Mediators in Patients with Acute Myocardial Infarction or Stable Angina Pectoris

Author(s):

Wenwen Yan,

Yanli Song,

Lin Zhou,

Jinfa Jiang,

Fang Yang,

Qianglin Duan,

Lin Che,

Yuqin Shen,

Haoming Song,

Lemin Wang

Affiliation: Tongji University School of Medicine, Shanghai

Year: 2017 Subject: TBD

Name of Conference: International Journal of Medical Sciences

Preordering using a Target-Language Parser via Cross-Language Syntactic Projection for Statistical Machine Translation

ISAO GOTO, National Institute of Information and Communications Technology, NHK, and Kyoto University

MASAO UTIYAMA and EIICHIRO SUMITA, National Institute of Information and Communications Technology

SADAO KUROHASHI, Kyoto University

Figure 11: Research Paper Sample 10

Title: Preordering using a Target-Language Parser via Cross-Language Syntactic Projection for Statistical Machine Translation Author(s):

ISAO GOTO, MASAO UTIYAMA, EIICHIRO SUMITA, SADAO KUROHASHI

Affiliation: National Institute of Information and Communications Technology, Kyoto

University Year: NA Subject: TBD





Decision Support Systems

www.elsevier.com/locate/dsw

A new approach to classification based on association rule mining

Guoqing Chen*, Hongyan Liu, Lan Yu, Qiang Wei, Xing Zhang

Department of Management Science and Engineering, School of Economics and Management, Tsinghua University, Beijing 100084, China

Received 19 February 2004; received in revised form 9 March 2005; accepted 9 March 2005

Available online 25 July 2005

Figure 12: Research Paper Sample 11

Subject Classification: Not available

Title: A new approach to classification based on association rule mining

Year: received-2004, accepted-2005 Conference/Journal name: Not available

Author name:

Guoqing Chen¹, Hongyan Liu¹, Lan Yu¹, Qiang Wei¹, Xing Zhang¹

Affiliation: Department of Management Science and Engineering, School of Economics and Management, Tsinghua University, Beijing 100084, China¹

Induction of Decision Trees

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Centre for Advanced Computing Sciences, New South Wales Institute of Technology, Sydney 2007, Australia

(Received August 1, 1985)

Key words: classification, induction, decision trees, information theory, knowledge acquisition, expert systems

Figure 13: Research Paper Sample 12

Subject Classification: classification, induction, decision trees, information theory,

knowledge acquisition, expert systems

Title: Induction of Decision Trees

Year:1986

Conference/Journal name: Kluwer Academic Publishers, Boston

Author name:

J.R. QUINLAN

Affiliation: Centre for Advanced Computing Sciences, New South Wales Institute of

Technology, Sydney, Australia

XGBoost: A Scalable Tree Boosting System

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ABSTRACT

Tree boosting is a highly effective and widely used machine learning method. In this paper, we describe a scalable end-to-end tree boosting system called XGBoost, which is used widely by data scientists to achieve state-of-the-art results on many machine learning challenges. We propose a novel sparsity-aware algorithm for sparse data and weighted quantile sketch for approximate tree learning. More importantly, we provide insights on cache access patterns, data compression and sharding to build a scalable tree boosting system. By combining these insights, XGBoost scales beyond billions of examples using far fewer resources than existing systems.

Keywords

Large-scale Machine Learning

problems. Besides being used as a stand-alone predictor, it is also incorporated into real-world production pipelines for ad click through rate prediction [15]. Finally, it is the defacto choice of ensemble method and is used in challenges such as the Netflix prize [3].

In this paper, we describe XGBoost, a scalable machine learning system for tree boosting. The system is available as an open source package². The impact of the system has been widely recognized in a number of machine learning and data mining challenges. Take the challenges hosted by the machine learning competition site Kaggle for example. Among the 29 challenge winning solutions ³ published at Kaggle's blog during 2015, 17 solutions used XGBoost. Among these solutions, eight solely used XGBoost to train the model, while most others combined XGBoost with neural nets in ensembles. For comparison, the second most popular method, deep neural nets, was used in 11 solutions. The success

Figure 14: Research Paper Sample 13

Subject Classification: Large-scale Machine Learning Title: XGBoost: A Scalable Tree Boosting System

Year: Not Available

Conference/Journal name: Not Available

Author name:

Carlos Guestrin¹, Carlos Guestrin¹

Affiliation: University of Washington¹

Obesity and Other Cancers

Lin Yang, Bettina F. Drake, and Graham A. Colditz

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Published online ahead of print at www.jco.org on November 7, 2016.

Authors' disclosures of potential conflicts of interest are found in the article online at www.jco.org. Author contributions are found at the end of this article.

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0732-183X/16/3435w-4231w/\$20.00 DOI: 10.1200/JCO.2016.68.4837

ABSTRACT

Purpose

Evidence on overweight, obesity, and an increased risk of cancer continues to accumulate and was updated in the 2016 handbook on weight control from the International Agency for Research on Cancer (IARC). The underlying primary data, together with dose-response meta-analysis and, finally, pooled analysis of individual participant data, add insight into the relation between obesity and cancer risk and prognosis. We summarize the evidence for mortality from prostate cancer, hematologic malignancies, and kidney cancer.

Methods

We reviewed pooled analysis of rare end points across cohorts, regardless of primary results reported from the individual studies, further reducing risk of publication bias. Of these cancer sites, only kidney cancer was included in the IARC 2002 report, although mortality from prostate cancer and hematologic malignancies was noted in the American Cancer Society prospective cohort study in 2003. The 2016 update from the IARC added details for prostate and hematologic malignancies, classifying the evidence as sufficient to conclude that avoiding excess body fatness lowers the risk of multiple myeloma but found that the evidence for it lowering the risk of prostate cancer mortality or diffuse large B-cell lymphoma was limited.

Results

A higher body mass index is associated with an increased risk of advanced prostate cancer and

Figure 15: Research Paper Sample 14

Subject Classification: Not Available Title: Obesity and Other Cancers

Year: 2016

Conference/Journal name: JOURNAL OF CLINICAL ONCOLOGY

Author name:

Lin Yang^{1,2}, Bettina F. Drake¹, and Graham A. Colditz¹

Affiliation:

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MATERIALS SCIENCE

Experimental test of Landauer's principle in single-bit operations on nanomagnetic memory bits

2016 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. Distributed under a Creative Commons Attribution NonCommercial License 4.0 (CC BY-NC). 10.1126/sciadv.1501492

Jeongmin Hong, 1 Brian Lambson, 2 Scott Dhuey, 3 Jeffrey Bokor 1*

Minimizing energy dissipation has emerged as the key challenge in continuing to scale the performance of digital computers. The question of whether there exists a fundamental lower limit to the energy required for digital operations is therefore of great interest. A well-known theoretical result put forward by Landauer states that any irreversible single-bit operation on a physical memory element in contact with a heat bath at a temperature T requires at least $k_BT \ln(2)$ of heat be dissipated from the memory into the environment, where k_B is the Boltzmann constant. We report an experimental investigation of the intrinsic energy loss of an adiabatic single-bit reset operation using nanoscale magnetic memory bits, by far the most ubiquitous digital storage technology in use today. Through sensitive, high-precision magnetometry measurements, we observed that the amount of dissipated energy in this process is consistent (within 2 SDs of experimental uncertainty) with the Landauer limit. This result reinforces the connection between "information thermodynamics" and physical systems and also provides a foundation for the development of practical information processing technologies that approach the fundamental limit of energy dissipation. The significance of the result includes insightful direction for future development of information technology.

Figure 16: Research Paper Sample 15

Subject Classification: Not Available

Title: Experimental test of Landauer's principle in single-bit operations on nanomagnetic

memory bits

Year: Not Available

Conference/Journal name: Not Available

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MAY WANT TO ADD REFERENCES TO EACH PDF LISTED.

Appendix

[1]https://drive.google.com/drive/folders/0BwYt86HaSAW9RG1NdGMtTGYzdkE?usp=sharing