A post-mortem empirical investigation of the popularity and distribution of malware files in the contemporary web-facing internet

This short empirical paper investigates a snapshot of about two million files from a continuously updated big data collection maintained by F-Secure for security intelligence purposes. By further augmenting the snapshot with open data covering about a half of a million files, the paper examines two questions: (a) what is the shape of a probability distribution characterizing the relative share of malware files to all files distributed from web-facing Internet domains, and (b) what is the distribution shaping the popularity of malware files? A bimodal distribution is proposed as an answer to the former question, while a graph theoretical definition for the popularity concept indicates a long-tailed, extreme value distribution. With these two questions - and the answers thereto, the paper contributes to the attempts to understand large-scale characteristics of malware at the grand population level - at the level of the whole Internet.

Towards a maturity modeling approach for the implementation of Industrial Internet

This Research-in-Progress paper facilitates the design and provides guidelines for the development of a maturity model to achieve a coordinated, systematic and stepwise adoption of industrial internet, thus enabling the industrial internet to be used to its full potential in manufacturing enterprises. Using analogous maturity models from the fields of supply chain management and product lifecycle maturity among others, this paper explains why a maturity model approach would facilitate the step-by-step implementation of industrial internet. The paper goes on to provide systematic design guidelines...
for industrial internet maturity model for mass production manufacturing industries which use heavy equipment. The
detailed research design presented here uses ADR methodology to enable the construction of the ensemble artefact. The
industrial internet maturity model will be tested, developed and validated using the experience-based feedback from
industrial practitioners. This will enable the industry to plan a roadmap to assess the current situation and define the
direction for the future development of industrial internet related activities and business models for industry.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Information Management and Logistics, Research group: Novi
Authors: Menon, K., Kärkkäinen, H., Lasrado, L.
Publication date: 1 Jul 2016

Host publication information
Title of host publication: Proceeding of the 20th Pacific Asia Conference on Information Systems (PACIS 2016) : June 27-
July 1, 2016
Publisher: Association for Information Systems AIS
Article number: 38
ISBN (Electronic): 9789860491029
Keywords: Industrial Internet, Maturity model, Design Guidelines
Electronic versions:
PACIS2016_Research_in_Progress_Paper639
Links:
http://urn.fi/URN:NBN:fi:tty-201708231696
http://aisel.aisnet.org/pacis2016/38/
Research output: Scientific - peer-review › Conference contribution

Re-city. Future city - combining disciplines

General information
State: Published
Ministry of Education publication type: C2 Edited books
Organisations: School of Architecture, Research group: Urban Planning
Authors: Rajaniemi, J. (ed.)
Number of pages: 287
Publication date: Jun 2016

Publication information
Place of publication: Tampere
Publisher: Tampere University of Technology, School of Architecture
Original language: English

Publication series
Name: DATUTOP
Publisher: Tampere University of Technology, School of Architecture
Volume: 34
ISSN (Print): 0359-7105
Keywords: urban research, city regeneration, urban planning
Electronic versions:
DATUTOP_34
Links:

Bibliographical note
JUFOID=54540
Research output: Scientific - peer-review › Anthology

Kokonaisvaltainen vesivarojen hallinta Laosin vesihallinnossa. Välönsikuna: Implementation of integrated water
resources management (IWRM) approach in water resources development and management of Lao PDR
Sari Jusi:Implementation of integrated water resources management (IWRM) approach in water resources development
and management of Lao PDR: the cases of hydropower and irrigation, Acta Universitatis Tamperensis 1820, Tampere,
2013. (158 s. ja artikkelit)
The goal of this paper is to provide an overview of the methods used in assessing a group work product as well as the individual effort of the group participants. To accomplish the goal we use some practical examples, literature review, and our own personal experience. Finally, we propose an alternative assessment method for lecturers to use within their classes.