

Lecture 3

Finding Literature

UNIVERSITY OF AUCKLAND

COMPSCI 289

Prof. Robert Amor

Learning Objectives

- To identify quality literature
- To understand quality indicators for literature
- To know what types of literature exist
- To be able to find and manage literature

How do you find information?

- What do you do currently?
 - Why is this good?
 - Why is this bad?

- Motivation
 - Standing on the shoulders of giants
 - Understanding where the forefront of research is
 - Research something new
 - Don't reinvent the wheel
 - Learn about dead-ends

Quality Obsession

“No one knows how many scientific journals there are, but several estimates point to around 30,000, with close to two million articles published each year.”
(Altbach and de Wit 2018)

- So how do we know what is worth reading?
 - Quality Publication Aggregators
 - Peer Review
 - Citations
 - Knowledge of Journal or Publisher
 - Knowledge of Institution
 - Knowledge of Author

Peer Review Variables

Transparency



Closed peer review

- Single blind
- Double blind
- Triple blind



Open peer review

- Names of reviewers/editors may be visible to authors
- Reviewers' reports may be published
- Editorial decision/comments may be public

Timing and Location



Pre-publication

- Review submitted on preprint server prior to author submission to journal
- Review submitted through journal peer review system after author submission to journal
- Reviews accompany manuscript when transferred to a different journal within publisher/society/subject network



Post-publication

- Alongside published article as formal part of editorial process
- Informal: blogs, social media, etc.

Reviewer Selection



Authors can suggest

Preferred or non-preferred reviewers



Editors invite reviewers



Reviewers "bid" for papers

Review Process



Independent review



Interactive review

Reviewers dialogue with authors



Collaborative review

Reviewers can discuss feedback with each other to reach more informed assessment of article

Assessment of...



Science only



Science +

- Novelty
- Impact

WILEY

321907

Helpful Resources

- Quality Publication Aggregators – and others
 - Scopus, Science Direct (Elsevier)
 - Springer Link
 - IEEExplore
 - ACM Digital Library
 - Web of Science

 - Google Scholar

 - Author homepages
 - Research groups
 - Relevant conferences/journals

Library Resources

- Physical books and journal stacks
- Online databases
 - 100's available at UoA library
- Librarian

Internet Resources

- Google Scholar

- Wide coverage over conferences and journals
- Access to PDF for many articles
- Link to publisher's publication URL (DOI)
- Citation information
- Known author profiles

But

- Quality not guaranteed
- Self-citations

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[PDF] Use of **parametric 3D modelling**-tying parameter values to spreadsheets at designing molds for plastic injection
M Fabian, R Boslaj, P Ižol, J Janeková... - Manufacturing ..., 2015 - journalmt.com
The current mechanical engineering is inconceivable without the implementation of CAx systems in design and manufacturing process of individual components. The automotive industry is a clear evidence of how CAx systems affect the innovation cycle of its product-a ...
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Aircraft **Parametric 3D Modelling** and Panel Code of Analysis for Conceptual Design
M Tarkian, F Javier Zaldivar Tessier - 2007 - diva-portal.org
Throughout the development of this report there will be a brief explanation of what the actual Aircraft Design Process is and in which stages the methodology that the authors are proposing will be implemented as well as the tools that will interact to produce this ...
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Parametric evaluation of **3D** dispersion of rockfall trajectories
GB Crosta, F Agliardi - 2004 - hal.archives-ouvertes.fr
... lateral dispersion. In this research, a **modelling** approach based on high res- olution 3D numerical **modelling** (Agliardi and Crosta, 2002, Page 4. GB Crosta and F. Agliardi: **Parametric** evaluation of 3D dispersion 585 Fig. 1. Rocky ...
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D Štern, B Likar, F Pernuš... - Physics in Medicine & ..., 2011 - iopscience.iop.org
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parametric cad dynamic models

spine images parametric modelling
laser data parametric models
automatic method parametric models

[HTML] Historic building information **modelling** (HBIM)
M Murphy, E McGovern, S Pavia - Structural Survey, 2009 - emerald.com
... and capitol. New developments in solid and **parametric 3D modelling** which have accelerated the design process have potential also to accelerate the vector mapping process onto laser scan surveys. Geometric **parametric** ...
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Parametric documenting of built heritage: **3D** virtual reconstruction of architectural details
C Chevrier, N Charbonneau... - International ..., 2010 - journals.sagepub.com
... The use of **parametric** objects leads to a significant saving in time by optimising the **modelling**


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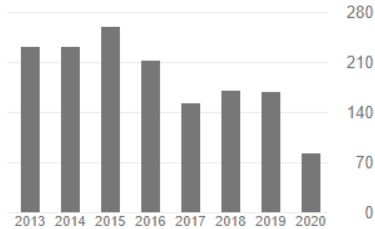
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TITLE	CITED BY	YEAR
Inconsistency management for multiple-view software development environments J Grundy, J Hosking, WB Mugridge IEEE Transactions on Software Engineering 24 (11), 960-981	228	1998
Design pattern modelling and instantiation using DPML D Mapelsden, J Hosking, J Grundy Proceedings of the Fortieth International Conference on Tools Pacific ...	174	2002
A generic approach to supporting diagram differencing and merging for collaborative design A Mehra, J Grundy, J Hosking Proceedings of the 20th IEEE/ACM international Conference on Automated ...	156	2005
Realistic load testing of web applications D Draheim, J Grundy, J Hosking, C Lutteroth, G Weber Conference on Software Maintenance and Reengineering (CSMR'06), 11 pp.-70	110	2006
Realistic Load Testing of Web Applications C Lutteroth, G Weber, D Draheim, J Hosking, J Grundy Conference on Software Maintenance and Reengineering (CSMR'06), 57-70	440 *	2006
An e-whiteboard application to support early design-stage sketching of UML diagrams Q Chen, J Grundy, J Hosking IEEE Symposium on Human Centric Computing Languages and Environments, 2003 ...	107	2003
Multi-methods in a statically-typed programming language WB Mugridge, J Hamer, JG Hosking European Conference on Object-Oriented Programming, 307-324	107	1991
Pounamu: A meta-tool for multi-view visual language environment construction N Zhu, J Grundy, J Hosking Visual Languages and Human Centric Computing, 2004 IEEE Symposium on, 254-256	89	2004
Serendipity: integrated environment support for process modelling, enactment and work coordination JC Grundy, JG Hosking Automated Software Engineering 5 (1), 27-60	89	1998
Information visualisation utilising 3D computer game engines case study: a source code comprehension tool B Kot, B Wuensche, J Grundy, J Hosking Proceedings of the 6th ACM SIGCHI New Zealand chapter's international ...	80	2005
Constructing component-based software engineering environments: issues and experiences	78	2000

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2016	~210
2017	~140
2018	~160
2019	~160
2020	~100

Co-authors

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-  **John Grundy**
Australian Laureate Fellow and ... >
-  **Beryl Plimmer**
University of Auckland >
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-  **Ewan Tempero**
University of Auckland, Victoria ... >
-  **Mark Apperley**
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Auckland OR Calgary OR Canter... >
-  **Christof Lutteroth**
Computer Science, University of ... >
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Professor of Health Informatics, ... >

Types of Publication

- Book
- Book chapter
- Conference article
- Internet site
 - Wikipedia
- Journal article
- Magazine article (trade or popular journal)
- Patent
- Standard
- Technical report
- Thesis/Dissertation
- White paper
- ...

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To: Select Month Select Year

SEARCH TIPS for text fields

Boolean searches

Use the boolean operators **AND**, **OR**, and **NOT** to narrow or broaden your search results.

By default, an AND relationship is assumed between Search Within terms unless you specify a different operator in the **Edit Query** input.

Searching for phrases

Enclose your search terms within quotation marks (" ") to search for an exact match of that phrase.

If no quotation marks are used, the search results will be populated with publications that contain your search terms somewhere in the text.

For example, if you search for "machine learning" the search engine will limit the results to publications that contain this exact phrase.

Wildcards

Use an asterisk (*) to specify any number of unknown characters. For example, if you search for **comput***, the search engine will provide results that contain words such as compute, computation, computing, etc.

Use a question mark (?) to specify any single unknown character. For example, if you search for **compute?**, the search engine will provide results that contain words such as computer or computed but not computers because the question mark represents only one character.

NOTE: Wildcards cannot be used at the start of a

Scope of search

- To develop/refine your research question
- Define the limits of the review
 - Too broad: Human-Computer Interaction
 - Too narrow: How does Human-Computer Interaction impact productivity of construction professionals with tablets on site?
 - Just right: Human-Computer Interaction and “construction professionals”

Literature Review

- An account of what has been published on your topic of interest
- Purpose – to critically analyze a segment of a published body of knowledge through summary, classification, and comparison of prior studies
- Traditional
 - Identifies and summarises a body of work
 - Identifies gaps and research frontier
 - Coverage may not be complete
- SLR – Systematic Literature Review
 - Rigorous process to identify 'all' relevant literature
 - Identifies and summarises a body of work
 - Identifies gaps and research frontier

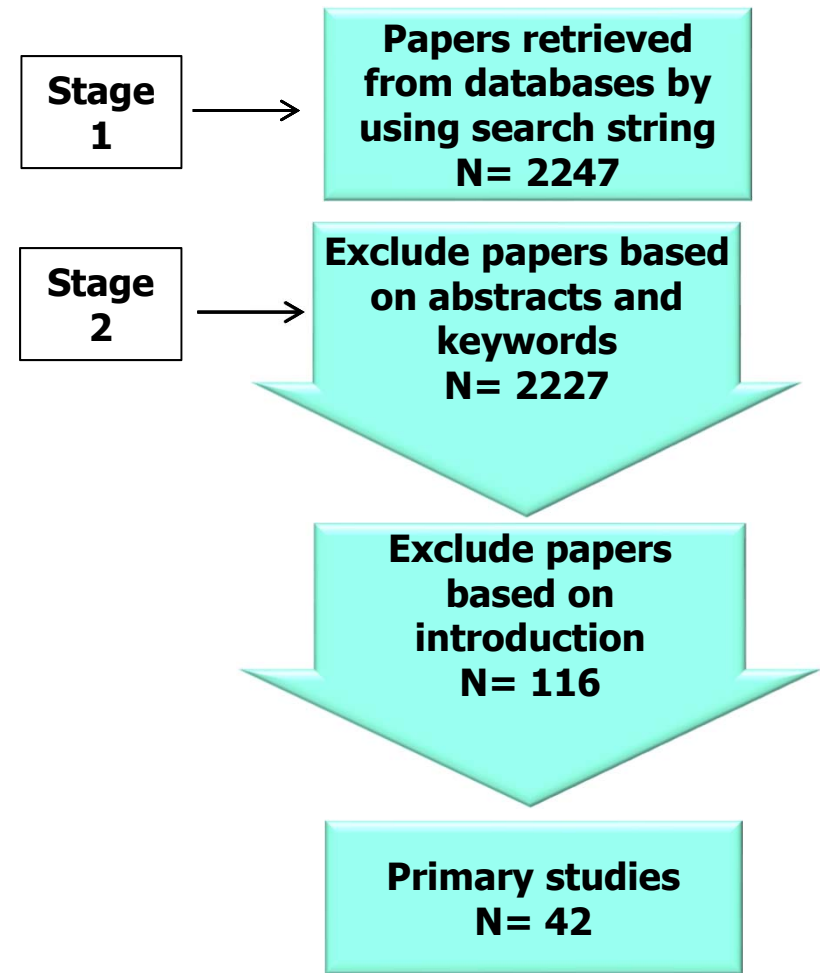
Systematic Literature Review/Process

- Search string:

("knowledge manag" OR "learning manag*" OR "reflective") AND ("agile" OR "scrum" OR "XP" OR "Lean") AND ("software" AND "team")*

- Databases:

- Springer
- Scopus
- IEEExplore



Ranking of Journals and Conferences

- ERA (Excellence in Research for Australia)
 - Community ranked thousands of journals and conferences
 - A*, A, B, C
- Web of Science
 - Impact Factor
 - Rank in Category

IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE		
Impact Factor		
17.861	15.395	
2019	5 year	
JCR® Category	Rank in Category	Quartile in Category
COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE	1 of 136	Q1
ENGINEERING, ELECTRICAL & ELECTRONIC	2 of 266	Q1
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Research Domain		
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Paper Citations

- A proxy for quality?
 - Self citations not always disambiguated

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IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE
Volume: 12 Issue: 10 Pages: 993-1001
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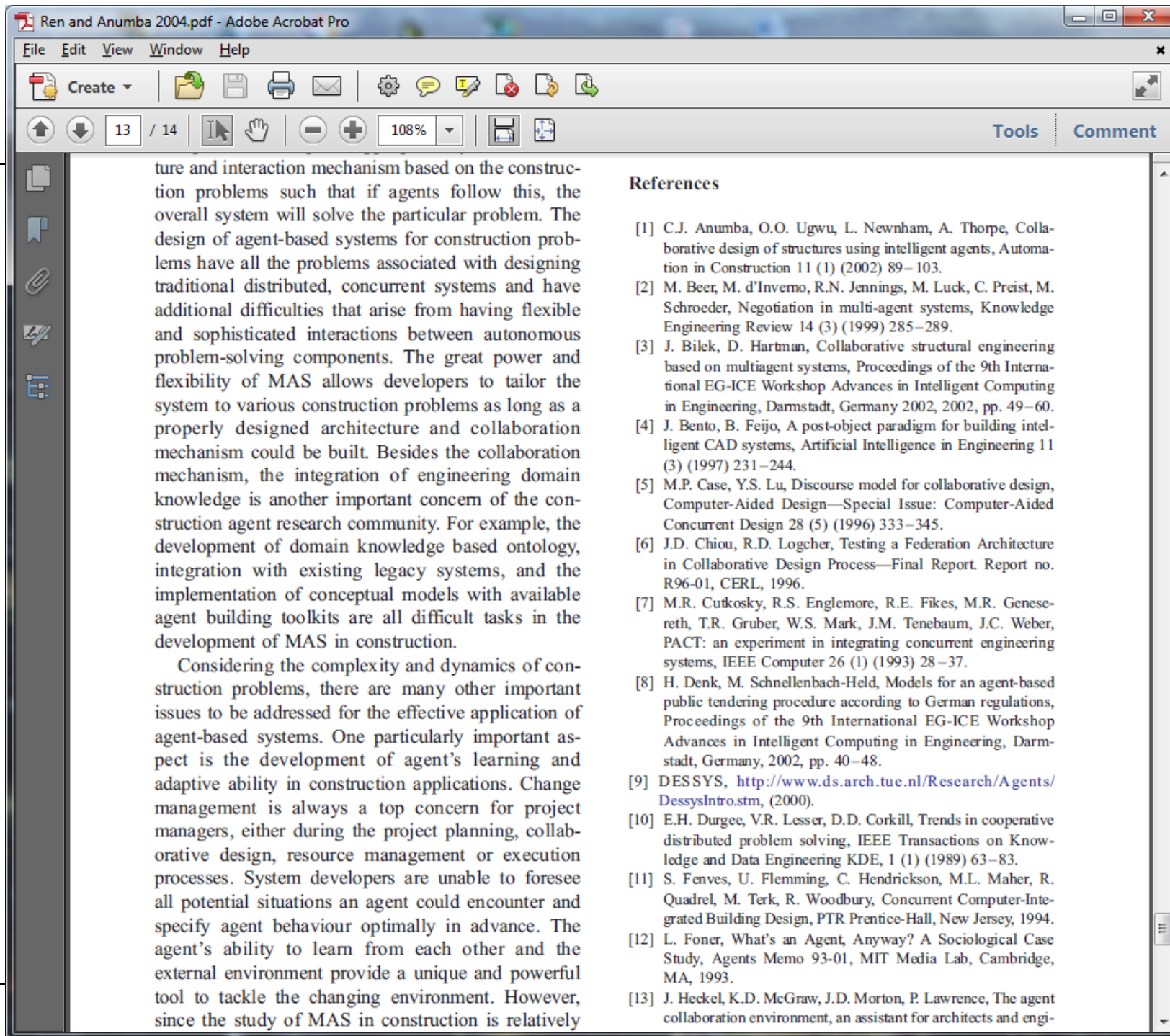
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Neural network ensembles
[LK Hansen, P Salamon](#) - IEEE transactions on pattern analysis ..., 1990 - [ieeexplore.ieee.org](#)
Several means for improving the performance and training of neural networks for classification are proposed. Crossvalidation is used as a tool for optimizing network parameters and architecture. It is shown that the remaining residual generalization error can ...
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Reference Chains

- Found a great article
 - What research does it cite?
 - What does it cite to support particular claims in the paper?
 - What related work does it cite?




Researchers and Research Groups

- Typically researchers work on a topic for many years
- Look at their bibliography
 - Google Scholar
 - Personal websites
- Researchers often part of a larger research group
 - Search for the group website

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Beast2

Bayesian evolutionary analysis by sampling trees

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Are these tree sets the same?

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March 02, 2020

Adaptive Metropolis Coupled MCMC(MC3) works!

January 14, 2020

ABOUT

BEAST 2 is a cross-platform program for Bayesian phylogenetic analysis of molecular sequences. It estimates rooted, time-measured phylogenies using strict or relaxed molecular clock models. It can be used as a method of reconstructing phylogenies but is also a framework for testing evolutionary hypotheses without conditioning on a single tree topology. BEAST 2 uses Markov chain Monte Carlo (MCMC) to average over tree space, so that each tree is weighted proportional to its posterior probability. BEAST 2 includes a graphical user-interface for setting up standard analyses and a suit of programs for analysing the results.

Download

The latest version of BEAST 2 is version [2.6.2](#). To install this version, select one of the following to download the version for your operating system:

- Download for Windows [without java \(8MB\)](#) /[with java \(45MB\)](#)
- Download for Mac OS X [without java \(8MB\)](#) /[with java \(45MB\)](#)
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Alternatively, if you already have v2.6.0 or v2.6.1 installed, you can upgrade via the package manager.

If you download a version of BEAST without Java, you need to install Java separately (for OSX, [JDK 8](#) is recommended). BEAST requires Java version 8 or higher. Older versions are available from the [BEAST2 releases web page](#).

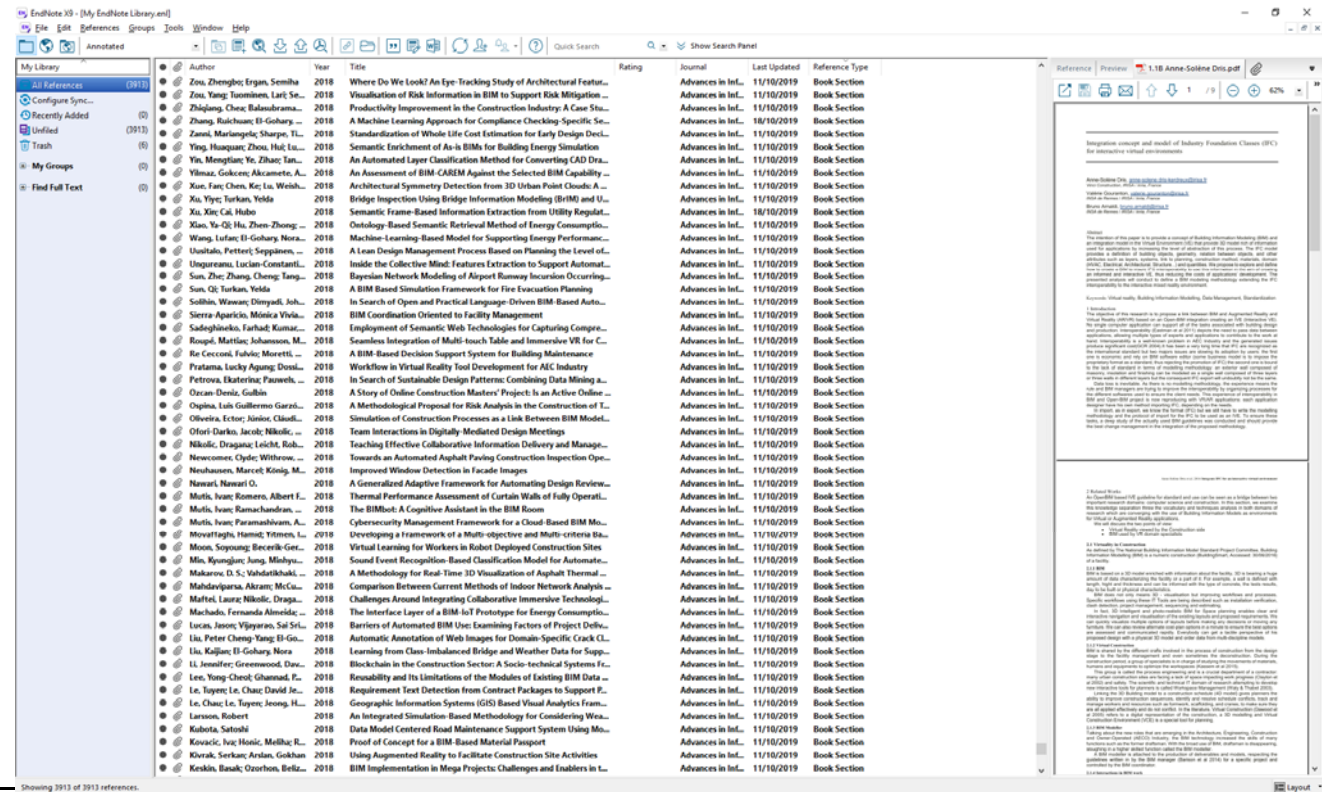
The BEAST 2 source code is available from the [GitHub repository](#), which produces the latest cutting edge jar file here: [beast.jar](#).

XML reference

The XML reference is available in the [online manual](#).

Article Management


- Tools available to manage literature information
 - EndNote
 - License for university students
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Outline

Highlights

Abstract

Keywords

1. Introduction

2. Characteristics of prefabricated buildings

3. Traditional parametric design system with BIM

4. Concept and process of DFMA-oriented parametric design

5. Methods for assisting DFMA-oriented parametric design

6. DFMA-oriented parametric design examples

7. Results and discussion





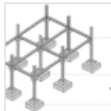

8. Conclusions

Acknowledgements


References

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Automation in ConstructionVolume 83, 2017, 1–12

Design for Manufacturing oriented parametric design of prefabricated buildings

Zhenmin Yuan^a, Chengshuang Sun^{b, c, d}, Yaowu Wang^{b, c}

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Highlights

- We find that component split design of prefabricated buildings is usually made by prefabricated-component factories.
- We propose DFMA-oriented parametric design for prefabricated buildings.
- DFMA-oriented parametric design combines advanced design principles in construction and manufacturing industries.
- DFMA-oriented parametric design elaborates how to make prefabricated buildings own good manufacturability and assemblability.

Recommended articles

BIM in off-site manufacturing for buildings
Journal of Building Engineering, Volume 14, 2017, 1–12
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Critical review of the research on the manufacturing of prefabricated buildings
Habitat International, Volume 43, 2014, pp. 240–250
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Barriers to promoting prefabricated construction
Journal of Cleaner Production, Volume 172, 2018, 1–12
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Feedback

Summary

- An overwhelming amount of literature available
 - Need strategies to search for relevant information
 - Repositories versus Internet search
 - Keywords and constraining search criteria
 - Following references, researchers and groups
 - Need to be able to identify quality of information
 - Publication venue
 - Review process
 - Citations
 - Need to manage the references you find