Scopus\_Data - RawData

Results from Scopus search engine, with the following search string :

*TITLE-ABS-KEY ( "Software visualization" ) AND TITLE-ABS-KEY ( "systematic review" OR "literature review" OR "systematic mapping" OR "mapping study" OR "systematic map" OR "meta-analysis" OR "survey" OR "literature analysis" ) AND ( LIMIT-TO ( SUBJAREA , "COMP" ) ) ​*

→ 52 papers

Scopus\_Data - SelectedData

Previous results filtered after the reading of title and abstract (paper not related to software visualization and non-reviews were removed).

→ 31 papers

ACMDL\_Data - RawData

Results from ACMDL search engine, with the following search string : (LIMIT TO(SUBJAREA, “COMP”) has been removed to increase results number).

*recordAbstract:(+"Software visualization" "systematic review","literature review","systematic mapping", "mapping study","systematic map","meta-analysis","survey","literature analysis")*

→ 108 papers

ACMDL\_Data - SelectedData

Previous results filtered after the reading of title and abstract (paper not related to software visualization and non-reviews were removed).

→ 14 papers

WebOfScience\_Data - RawData

Results from Web of Science search engine, with the following search string :

*ALL = ("Software visualization" AND ( "systematic review" OR "literature review" OR "systematic mapping" OR "mapping study" OR "systematic map" OR "meta-analysis" OR "survey" OR "literature analysis" ))*

→ 28 papers

WebOfScience\_Data - SelectedData

Previous results filtered after the reading of title and abstract (paper not related to software visualization and non-reviews were removed).

→ 17 papers

IEEE\_Data - RawData

Results from Web of Science search engine, with the following search string :

*("Software visualization" AND ("systematic review" OR "literature review" OR "systematic mapping" OR "mapping study" OR "systematic map" OR "meta-analysis" OR "literature analysis" OR "survey")).*

→ 24 papers

IEEE\_Data - SelectedData

Previous results filtered after the reading of title and abstract (paper not related to software visualization and non-reviews were removed).

→ 10 papers

FurtherSteps - Merge

Fusion of all selected papers (IEEE\_Data - SelectedData, Scopus\_Data - SelectedData, WebOfScience\_Data - SelectedData, ACMDL\_Data - SelectedData).

→ 72 papers

Duplicates removal.

→ 45 papers

FurtherSteps - I&ECriteria

Definition of inclusion and exclusion criteria, application of those on FurtherSteps - Merge results.

* [I1] - Title, keyword list, and abstract explicitly stating that the paper is related to SV.
* [I2] - Studies conducting a systematic mapping study or SLR on SV or any sub-field.
* [I3] - Studies providing a state of the art, taxonomy, review on SV, or any sub-field.
* [E1] - Conference proceedings, e-books, slideshows, or formats different from research papers.
* [E2] - Papers focusing on a unique tool, technique, not broad enough.
* [E3] - The paper's full text is not available for download.
* [E4] - The paper is not in English.
* [E5] - The publication year is lower than 2000.

→ 31 papers

FurtherSteps - SnowBallingPapers

Searching for relevant papers among references and citing papers of FurtherSteps - I&ECriteria results (reading title and abstract). They are relevant if they respect previous criteria.

→ 19 papers found.

FurtherSteps - FinalSet

Selected papers, coming from FurtherSteps - I&ECriteria + Further - SnowballingPapers (31 + 21 = 52 papers).

During full reading of papers, we noticed that some papers (6) violated exclusion criteria, and have removed them. Those papers are :

A. Cruz; C. Bastos; P. Afonso; H. Costa, “Software visualization tools and techniques: A systematic review of the literature” because it violates [E4].

Arie van Deursen, “A Pragmatic Perspective on Software Visualization” because it violates [E1].

NIKO MYLLER, ROMAN BEDNARIK, and ERKKI SUTINEN, “Extending the Engagement Taxonomy:Software Visualization andCollaborative Learning” because it violates [E2].

Wim De Pauw and Steven P. Reiss and John T. Stasko, “ICSE Workshop on Software Visualization” because it violates [E1].

Hacı Ali Duru, Murat Perit Çakır, “How Does Software Visualization Contribute to Software Comprehension? A Grounded Theory Approach” because it violates [E2].

Liu C., Ye X., Ye E., “Source code revision history visualization tools: Do they work and what would it take to put them to work?” because it violates [E2].

→ 46 papers