Computational Models for Embedded Systems

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Faculty of Mathematics and Computer Science
Babeș-Bolyai University
Cluj-Napoca

2025-2026

Lecture 5: SLR

Faculty of Mathematics and Computer Science
Babeș-Bolyai University

“Tell me and I forget, teach me and I may remember, involve me and I learn.”

(Benjamin Franklin)

Outline

SLR report

- SLR elements
- SLR process
- SLR deliverable

SLR - presentation

- Pecha Kucha presentation style
- Structure
- Elements to be included

SLR - poster

- Structure
- Elements to be included

Class schedule (tentative)

1	3 oct.	Introduction	Assignment 1 Problem statement. SDG UBBGoesGreen (Lab 1) => Lab 7 Assignment 2 Model checking JSpin (Lab 2, Lab3) => Lab 7
2	10 oct.	Model checking (1)	
3	17 oct.	Model checking (2)	
4	24 oct.	Synchronous Model	
5	31 oct.	Asynchronous Model	
6	7 nov.	Invited lecture: Automotive by Synopsys	
7	14 nov.	Finite State Machine (1)	Assignment 3 a)Finite State Machine b)Petri Nets (Lab 4, Lab 5, Lab 6) => Lab 7
8	21 nov.	Invited lecture: Keeping Rails in Check by Accenture	
9	28 nov.	Finite State Machine (2)	
10	5 dec.	Petri nets	
11	12 dec.	Timed models Invited lecture (1): Keeping Rails in Check by Accenture (pending?)	
12	19 dec.	Hybrid systems	
		Holiday	
13	9 ian.	Dynamical systems	
14	16 ian.	Report Presentation, Exam preparation	

Class	Room, hours
Seminar (Friday)	L321 14-16 SDI (S2)
Seminar (Friday)	L402 16-18 258/1 (S1) 258/2 (S2)
Lecture (Friday)	C335 18-20

SLR Lecture When?

Grading

https://www.cs.ubbcluj.ro/files/curricula/2025/syllabus/IS_sem3_MME8026_en_avescan_2025_9498.pdf

- To be Updated about the Grading (after this first lecture)

Research
- Dissertation Thesis
- Internship in Specialization

To be UPDATED?
10-Oct-2025

Final Grade

- Final Grade = 50% Seminar (=10%*Pb+20%*MC + 20%*FSM) + 50% Exam (=10%Quiz+40%*ReportSLR)
- Conditions to participate at the final exam
  - There is no restriction regarding the participation at the written examination regarding obtained marks Pb, MC, FSM.
- Pb, MC, FSM work may not be redone in the retake session.
- Conditions to pass/complete the CMES discipline:
  - Final Grade >= 5 final grade.

Gamify Your Class

http://www.techedupteacher.com/gamify-your-class-level-i-xp-grading-system-2/

	Side Quests (Lab projects)	Epic Quests (Final exam)
Normal session	Pb + MC + FSM 1500 XP	Up to 1500 XP (Quiz 300 + ReportSLR 1200 XP)
Retake session	Received during Normal session Points obtained in the didactic activity period (labs and seminar and bonus activity cannot be redone in the normal/retake session).	Up to 1500XP

XP intervals	Grade
[1400,1500]	5
[1501,1800]	6
[1801,2100]	7
[2101,2400]	8
[2401,2700]	9
Over 2700	10

Final exam – you must come (be present) to the final exam in order to compute the grade!

Epic Quests (Final exam)

- Up to 1500 XP
  - 300 XP – Quiz (In Class Exam)
  - 1200 XP – Report (Take Home Exam)
    - Social Quests (Report and Presentation)

Social Quests (Report and Presentation)

- **Up to 1200 XP**
- Conduct a Systematic Literature Review on a provided research topic.
  - Testing Embedded systems or Quality attributes of Embedded Systems or Internet of Things or
- References
  - Barbara Kitchenham, Procedures for Performing Systematic Reviews, 2004
  - Barbara Kitchenham, Guidelines for performing Systematic Literature Reviews in Software Engineering, 2007
  - Example: PhD Thesis (Chapter 3)
- Team: 3-5 students/team
- Tasks (48h:12=4h/week)
  - 01. Search and save the title (doi) of the articles (minimum 30 articles) (6h)
    - 01.a. showballing procedure
  - 02. Read abstracts and reduce from 30 to 10 papers (6h)
  - 03. Read each of the 10 papers
    - 03.a. create standardized data extraction form = all relevant information for each study, allowing you to examine and compare results.
    - 03.b. produce 1 paragraph (approach, used method, dataset, obtained results) (3h*10articles=30h)
  - 04. Summarizing table with the 10 articles (6h)
    - 04.a.Tabulating extracting data
  - 05. Future work and opportunities
    - 05.a. Discussions of results
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  - 06. Report containing
    - Explain the methodology applied (all the steps and findings regarding various characteristics of the selected articles).
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  - 07. Presentation of the SLR process and results – Pecha Kucha presentation type (10 minutes)

3 students=30 papers (starting from 90 papers)
4 students=40 papers (starting from 120 papers)
5 students=50 papers (starting from 150 papers)

Each students from the team selects 30 papers and reduces to 10 papers

You can create an account here https://www.e-nformation.ro/ (use @scs.ubbcluj.ro account) and download the papers. If the papers are not available, please email the teacher the doi id of the paper.

Tasks for one student in the team

SLR report template
https://www.overleaf.com/9296348645hvshcggfbbkt
Create a copy and change the names for Student1 and Student2 and Student3 (2024_CMES_SLR_Student1Student2). Please do not write in the shared project (it is just for copy).

SLR Report pdf + Recorded 10min Video + Poster
Must be submitted in Teams under the Assignment Assignment_SRL_Report – one day before exam date

SLR (1)

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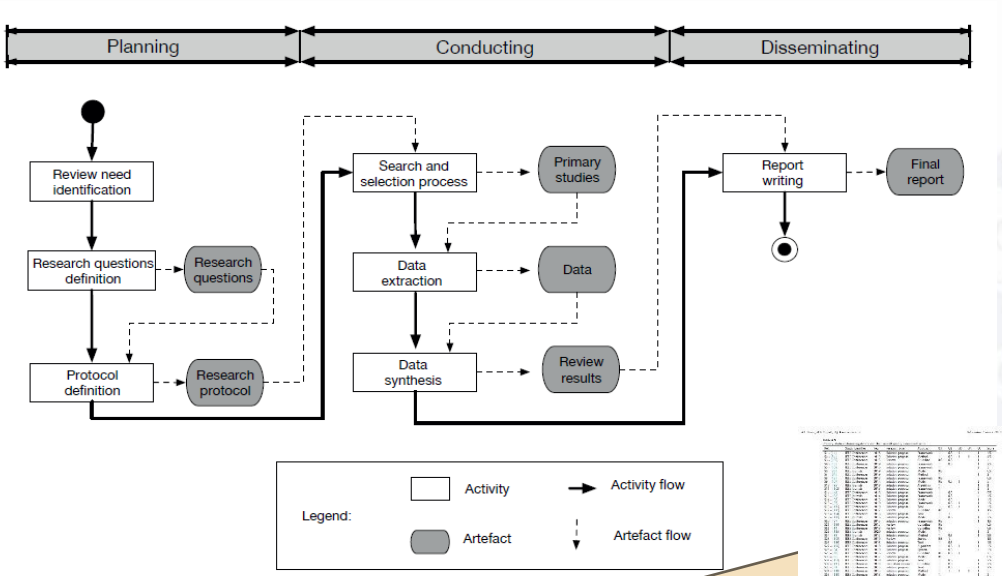

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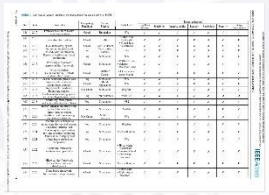
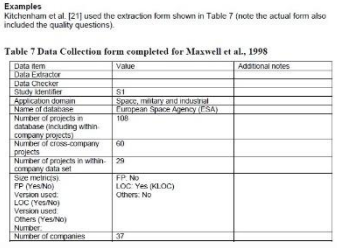
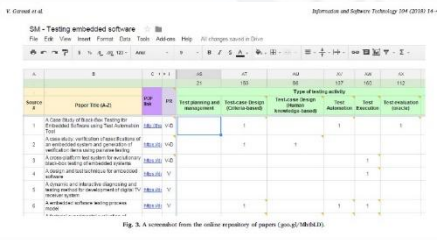
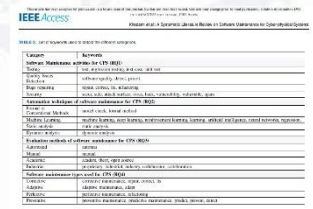
- Excel file - For each line:
  - Paper information
  - Characteristics related to the aim/topic and to the RQ
    - Example: approach, used method, dataset, etc
    - Minimum 7









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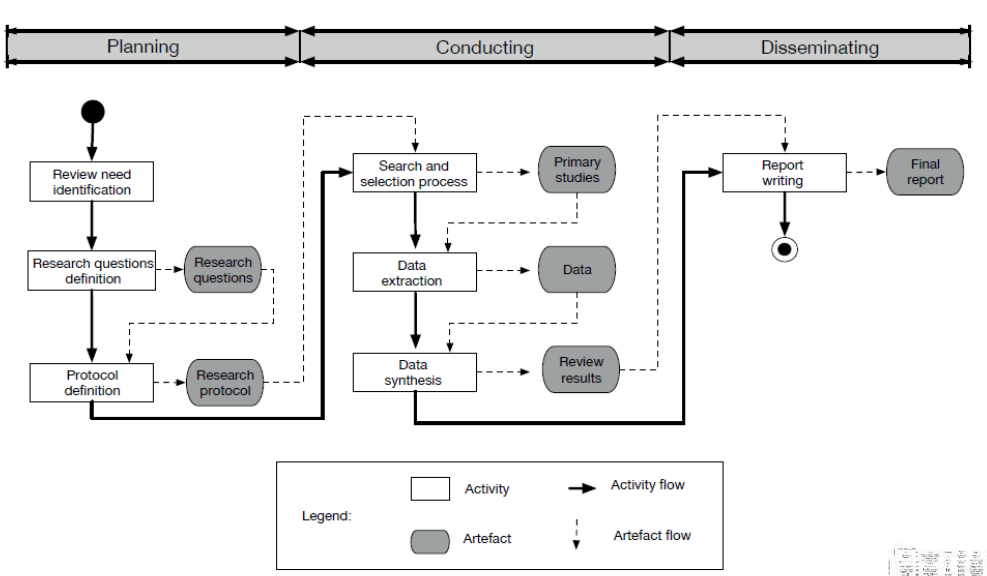

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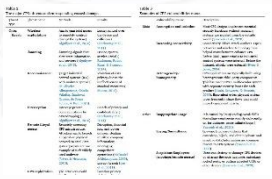
- Table with the extracted data
  - Details regarding the paper and various characteristics
  - Minimum 5 characteristics









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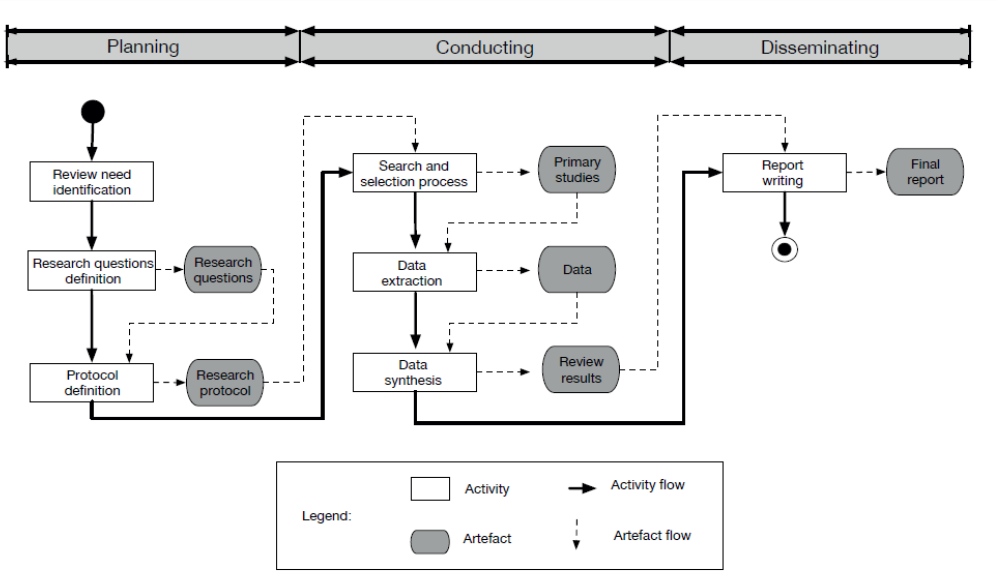

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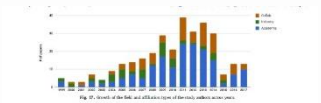
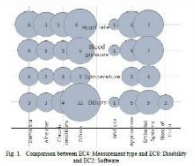
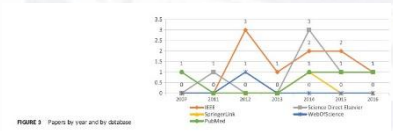
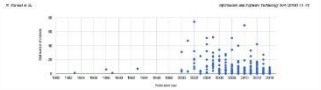
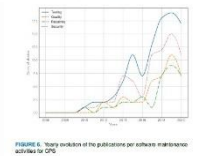
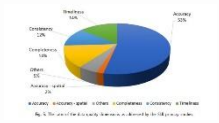
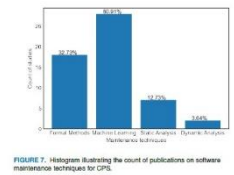
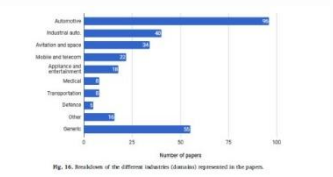
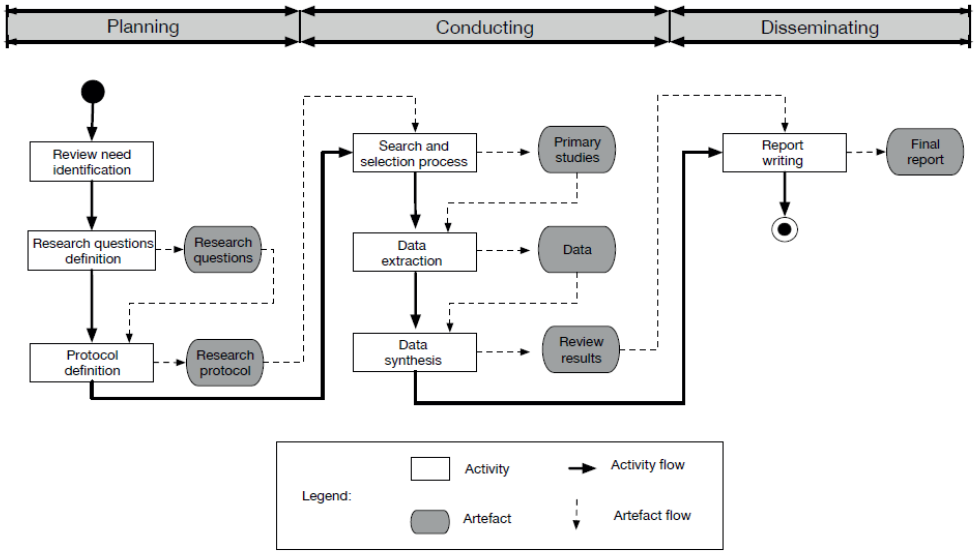
- Results
  - Various types of charts for analysis
    - Minimum 5 charts
  - The research questions are repeated and an answers are provided.

SLR (4)



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  - 08. Poster

- Challenges and open issues
- Opportunities/Recommendations

6. Perspectives and future direction

V. IMPLICATIONS AND FUTURE RESEARCH DIRECTIONS

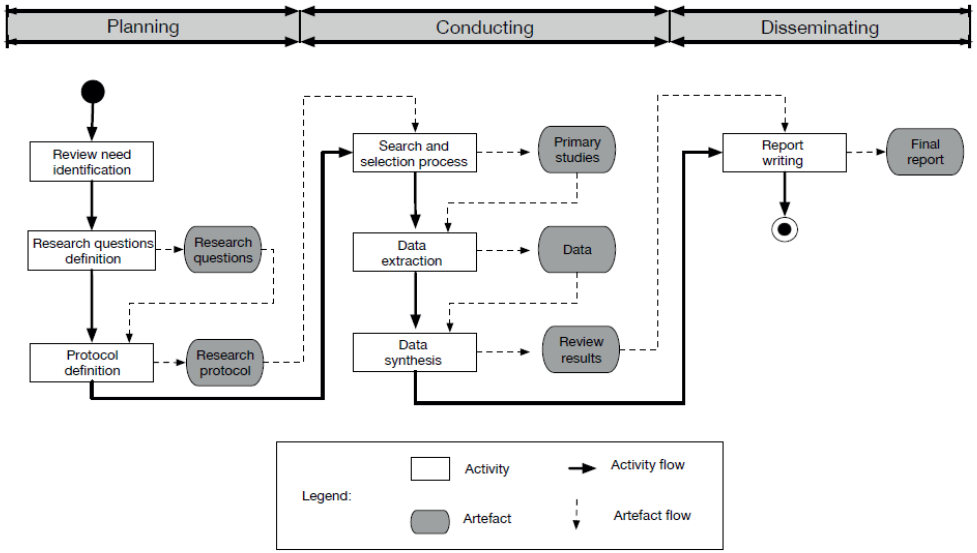
In this section, we identify new opportunities for future

4.2.1 | Open challenges involving unaddressed areas

4.2.2 | Open challenges involving unutilized approaches and unaddressed testing problems

5.2. Discussion and open research topics

SLR (5)



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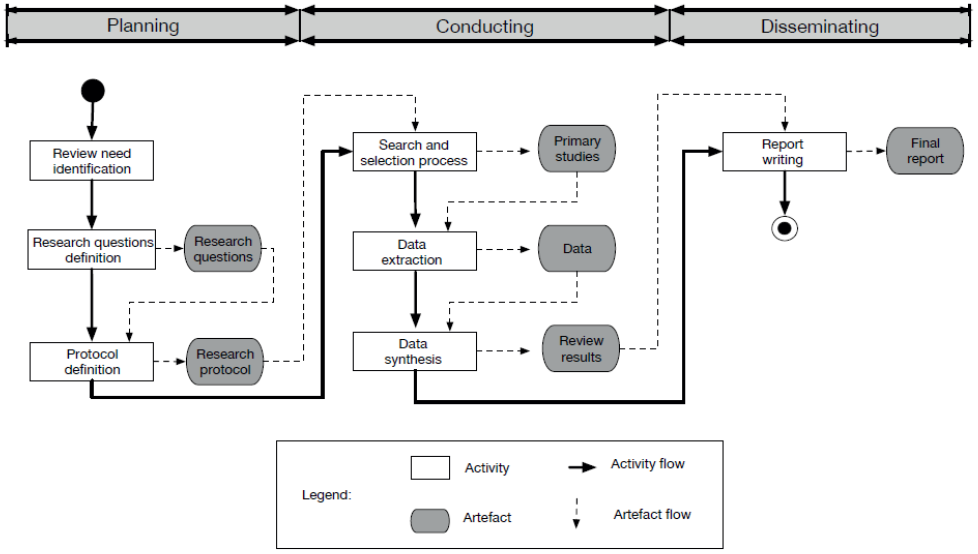
- Content of the Video presentation
  - Explain the methodology that you have used.
  - Research questions
  - Results discussion
  - Answers to the Research questions
  - Open issues + Opportunities
- Mandatory
  - First slide:
    - CMES subject, SLR report
    - Name of the students
    - year
  - Your voces
  - Use pictures to enhance your idea
  - Use your own charts and tables from your performed analysis.

- See video examples provided in the SLR assignment.
- See Poster examples provided in the SLR assignment.

SLR (6)



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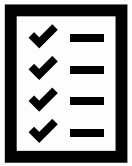
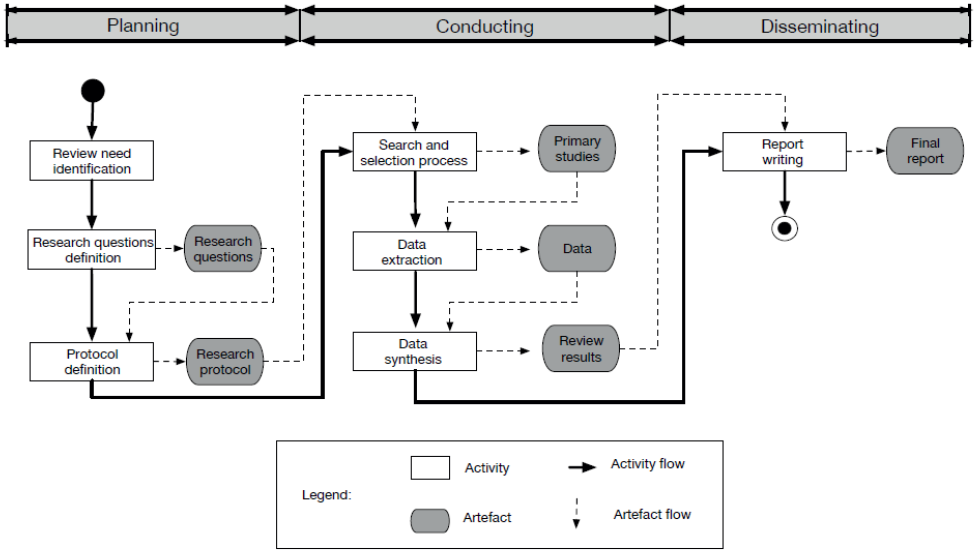
Turn in:

- One excel file containing:
  - Final list of selected papers included in your SLR as a team.
    - Excel file with one sheet containing the list (for each paper, year, title, authors, conference or journal, link of the online publication)
  - Data extraction form
    - Excel file with one sheet containing the table with the characteristics that you have chosen for each the included paper in the SLR.
  - Tabulated data
    - Excel file with one sheet containing the table with the result analysis.
  - Charts with your analysis
    - Excel file with one sheet (or multiple sheets) containing the performed analysis that contains the charts you have created based on your analysis.
- PDF file with the SLR report (use the provided template; you can update it based on your need)
- Video presentation of your SLR activity.
- Poster



SLR (7)



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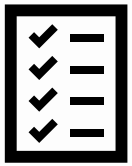
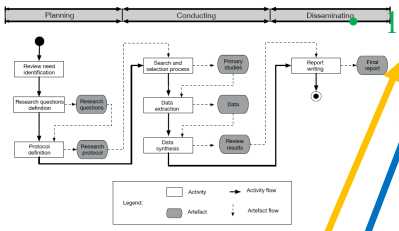
- Video presentation of your SLR activity.
- Poster



SLR (8)

1200 XP – Report (Take Home Exam)
- Social Quests (Report and Presentation)



1200 XP
- 100: papers list + data extraction form
- 150: tabulated data
- 150: charts

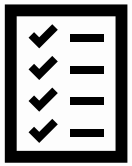
- 150: methodology in the pdf report
- 150: paragraphs on the content of the papers
- 200: discussions+ open issues + opportunities

- 200 Pecha Kucha presentation
  - 100: methodology in short + rq+table+charts+answer to rq
  - 100: organization, content, slides, delivery
- 100 Poster

In this step, we aim to enlarge the set found by the automatic search from previous steps, through a snowballing activity [33]. Through the snowballing activity, we referred to each study and used its reference list to identify additional studies. Several potential studies were identified but after applying the

- Example: PhD Thesis (Chapter 3)
- Team work
  - Chosen Topic: the same for all students in the team
  - Define Research Questions (RQ)
  - Define Keyword and Search string
- For each student in the team
  - 01. Search and save the title (doi) of the articles (minimum 30 articles)
    - 01.a. showballing procedure
  - 02. Read abstracts and reduce from 30 to 10 papers
  - 03. Read each of the 10 papers
    - 03.a. create standardized data extraction form = all relevant information for each study, allowing you to examine and compare results.
    - 03.b. produce 1 paragraph (approach, used method, dataset, obtained results) (3h*10articles=30h)
  - 04. Summarizing table with the 10 articles
    - 04.a.Tabulating extracting data
  - 05. Future work and opportunities
    - 05.a. Discussions of results
    - 05.b. Gaps, challenges, open issues
    - 05.c. Opportunities/Recommendations
  - 06. Report containing
    - Explain the methodology applied (all the steps and findings regarding various characteristics of the selected articles).
    - The 10 paragraphs and the Summarizing table and Future work and opportunities.
  - 07. Presentation of the SLR process and results – Pecha Kucha presentation type (10 minutes)
  - 08. Poster

Turn in:
- One excel file containing:
  - Final list of selected papers included in your SLR as a team.
    - Excel file with one sheet containing the list (for each paper, year, title, authors, conference or journal, link of the online publication)
  - Data extraction form
    - Excel file with one sheet containing the table with the characteristics that you have chosen for each the included paper in the SLR.
  - Tabulated data
    - Excel file with one sheet containing the table with the result analysis.
  - Charts with your analysis
    - Excel file with one sheet (or multiple sheets) containing the performed analysis that contains the charts you have created based on your analysis.
- PDF file with the SLR report (use the provided template; you can update it based on your need)
- Video presentation of your SLR activity.
- Poster



SLR (9)

- SLR_and_Video_Example_by_students
  - Discussed during the lecture (not everything is correct!)
  - 5 minutes ➔ NOW 10 minutes
- Poster
  - 1 example on overleaf:
    - https://www.overleaf.com/latex/templates/gemini-poster-theme/nzpspqjryjhx
  - 1 exemple on pptx
    - https://management.buffalo.edu/internal/communications-tools/templates/research-poster-template.html
  - Define ones for your own need + UBB logo (+FMI)

- Example: PhD Thesis (Chapter 3)
- Team work
  - Chosen Topic: the same for all students in the team
  - Define Research Questions (RQ)
  - Define Keyword and Search string
- For each student in the team
  - 01. Search and save the title (doi) of the articles (minimum 30 articles)
    - 01.a. showballing procedure
  - 02. Read abstracts and reduce from 30 to 10 papers
  - 03. Read each of the 10 papers
    - 03.a. create standardized data extraction form = all relevant information for each study, allowing you to examine and compare results.
    - 03.b. produce 1 paragraph (approach, used method, dataset, obtained results) (3h*10articles=30h)
  - 04. Summarizing table with the 10 articles
    - 04.a.Tabulating extracting data
  - 05. Future work and opportunities
    - 05.a. Discussions of results
    - 05.b. Gaps, challenges, open issues
    - 05.c. Opportunities/Recommendations
  - 06. Report containing
    - Explain the methodology applied (all the steps and findings regarding various characteristics of the selected articles).
    - The 10 paragraphs and the Summarizing table and Future work and opportunities.
  - 07. Presentation of the SLR process and results – Pecha Kucha presentation type (10 minutes)
  - 08. Poster

Turn in:
- One excel file containing:
  - Final list of selected papers included in your SLR as a team.
    - Excel file with one sheet containing the list (for each paper, year, title, authors, conference or journal, link of the online publication)
  - Data extraction form
    - Excel file with one sheet containing the table with the characteristics that you have chosen for each the included paper in the SLR.
  - Tabulated data
    - Excel file with one sheet containing the table with the result analysis.
  - Charts with your analysis
    - Excel file with one sheet (or multiple sheets) containing the performed analysis that contains the charts you have created based on your analysis.
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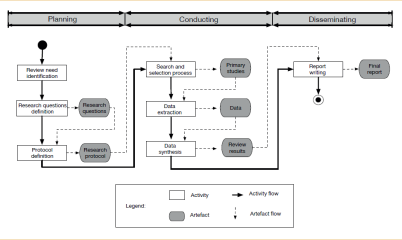
CMES – Today

Bring it All Together

SLR

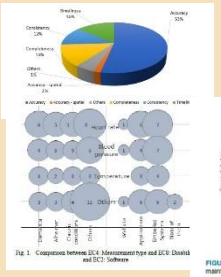


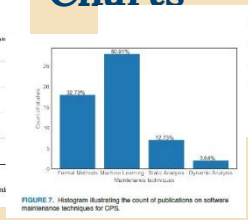
- Team: 3-5 students/team
- 30 papers for each student => reduced to 10 papers (for each student)

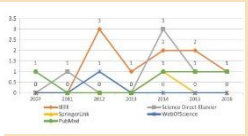
Extraction form

Tabulating extracting data

Charts

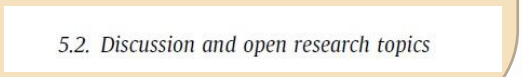






Open issues Opportunities


V. IMPLICATIONS AND FUTURE RESEARCH DIRECTIONS
In this section, we identify new opportunities for future


5.2. Discussion and open research topics

SLR – turn in

Turn in:

- One excel file containing:
  - Final list of selected papers included in your SLR as a team.
    - Excel file with one sheet containing the list (for each paper, year, title, authors, conference or journal, link of the online publication)
  - Data extraction form
    - Excel file with one sheet containing the table with the characteristics that you have chosen for each the included paper in the SLR.
  - Tabulated data
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- Poster

Next Lecture

- Invited lecture
  - Synopsys

- Title:
  - Virtual Prototyping for Software-Defined Vehicles
- Speaker:
  - Ana Diaconu
- In attendance:
  - Adrien Lorincz si Claudiu Ispas

- You are kindly asked to participate at these lectures, please send minimum 10 students from each semigroups.
- Fill in here the list of students:
  - https://ubbcluj.sharepoint.com/:w:/r/sites/2025_2026_Master_CMES/_layouts/15/Doc.aspx?sourcedoc=%7BE02DF2CF-96C5-4CFA-AC17-325537A94C62%7D&file=InvitedLectures_StudentParticipants_List.docx&action=default&mobileredirect=true
  -

Thank You For Your Attention!

- ExitTicket
- Mentimeter
  - menti.com
  - Code: ?