

ESG working group in automation and technological advancement

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Taking Stock II: Looking backwards & then forwards

Alex Sutton, CRSU ESG & University of Leicester

The group's activities fall into three main areas

- Meeting on a monthly basis to share tools, experiences and ideas and to further understanding across ESGs
 - Achieving
- Sharing tools and resources on the web page
 - Links are there, who has engaged / finds it useful?
- Developing and sharing templates for studies within a review (SWARs) for ESGs (and others) to use
 - We have had session(s) on this, is it happening?

Overview : Achievements

- The group has been going 18 months
- It has an excellent active group of members who regularly attend the monthly meetings etc
- Have a regularly updated website (<https://eppi.ioe.ac.uk/cms/Default.aspx?tabid=3927>)
- We have had approximately 17 monthly meetings (15 since we last “took stock”
 - Tool demos (including several for LLMs)
 - Discussion about tool use (e.g. searching, screening, data extraction, analysis)
 - Discussion of developing guidelines and validation strategies (including SWARS)

Which sessions did people find most useful?

What further sessions would people like?

Training

- We (i.e. James and me) not have capacity to provide training per se, but . . .
 - Could play facilitatory role in finding common training needs across ESGs?
 - Individuals/ESGs could offer training in tools they are comfortable with and enthusiastic about as sessions – i.e. “group self improvement model”?
 - Any immediate offers?

Survey of Digital Tool Usage by ESGs

- Motivation

- Helpful / interesting to know what ESGs all use
- May help us identify options we have not explored
- May help generate ideas for future sessions
- Facilitate raising of standards / saving resources

- Plan:

- I present a proposed survey, for criticism now & I then update it
- I send out a brief survey via the group list
- You get each ESG to complete it within 2 weeks and return to me
- We have the session in November (20th) where we disseminate and discuss the results and their implications/ideas generated

Piloting the Survey on the CRSU ESG

Overview of digital tools used by reviewing task:

NB. No need to include standard office tools / databases searched (?)

Task	Core Tool(s)	Sometimes or previously used / evaluating	Exploring / Interested In
Scoping	Google (+Scholar), Electronic databases	LLMs (ChatGPT)	Tools in TERA, Next gen LMM tools including ALLEN.AI
Protocol Writing	(LLM for plain language abstracts)		LLMs
Searching			
Screening Abstracts	Covidence		https://asreview.nl/ (priority ordering)
Screening Full Text	Covidence		
Data Extraction	Covidence, MS Forms		LLMs
RoB/Quality assessment of studies			LLMs

Piloting Survey Continued

Task	Core Tool(s)	Sometimes or previously used / evaluating	Exploring / Interested In
Data Synthesis – Quantitative	R/RStudio, STATA, GitHub (version control)	CRSU Apps (https://www.gla.ac.uk/research/az/crsu/apps/)	
Data Synthesis – Qualitative	(not been required yet)	-	-
Certainty of Evidence Assessment	GRADEpro (MA) CINeMA (NMA) CERQUAL (Qual)		AI being added to GRADEpro
Reference Managing			
Report Writing			LLMs
Dissemination	Twitter, BlueSky, Website		

Further questions

- **What tools would you like training in?**
- **What tools would your RSG possibly be able to provide training in?**
 - i.e. Give others I your ESG chance to consider this?
- Should I add tools for data cleaning/formatting to the table?
- Should I request further details of analysis tools (e.g. specific R packages)?
- What format should I send survey out?
 - Word? – easy to circulate round ESG group members?
- Any further suggestions / questions?