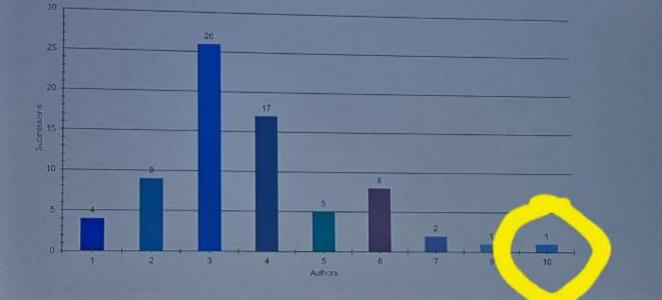
A WINDOW OF OPPORTUNITY *

Active Window Tracking for Mining Work Practices

> Iris Beerepoot, Daniël Barenholz, Stijn Beekhuis, Jens Gulden, Suhwan Lee, Xixi Lu, Sietse Overbeek, Inge van de Weerd, Jan Martijn van der Werf, Hajo A. Reijers

Authors per submission



ANTONIANUM







Show me a code snippet

of a website's sticky header

Write a thank-you note to a guest speaker for my class

Plan an itinerary

for a fashion-focused exploration of Paris

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Give me ideas for what to do with my kids' art

I just received an invitation to become PC member for the ICPM conference. How much time can I expect to have to dedicate to this and when will the major portion of the work take place?



 \square

Congrats! I think ;-). Mind you, this year you were PC member for the BPM conference and you spent 7.5 hours on assessing five papers alone. And I haven't even included the time spent on the bidding, preparation and discussion in that calculation.

Ġ Regenerate response

0 6 7

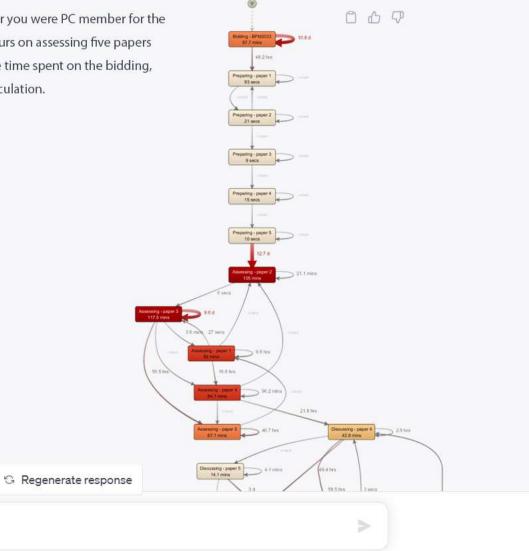
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Send a message.



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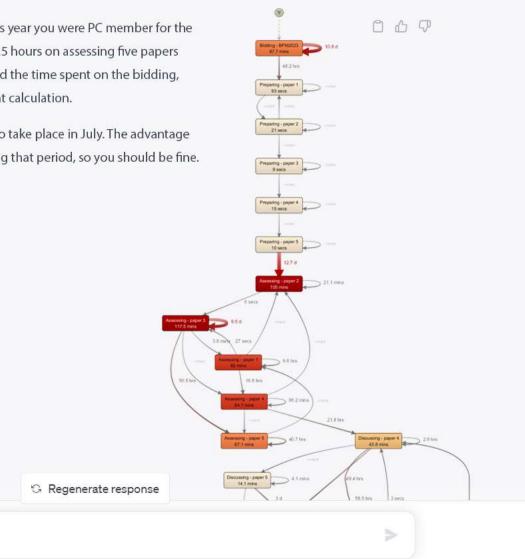




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Expect the majority of the work to take place in July. The advantage is that you are not teaching during that period, so you should be fine.



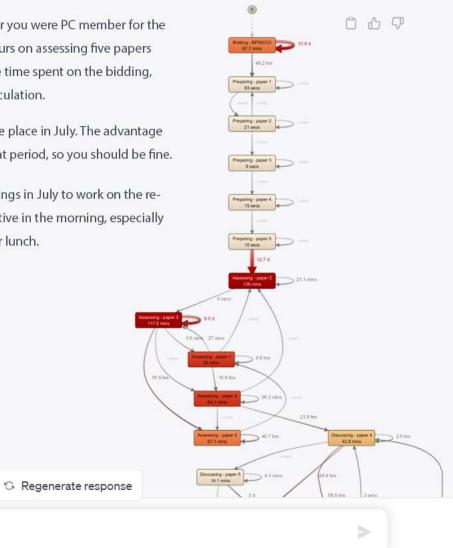


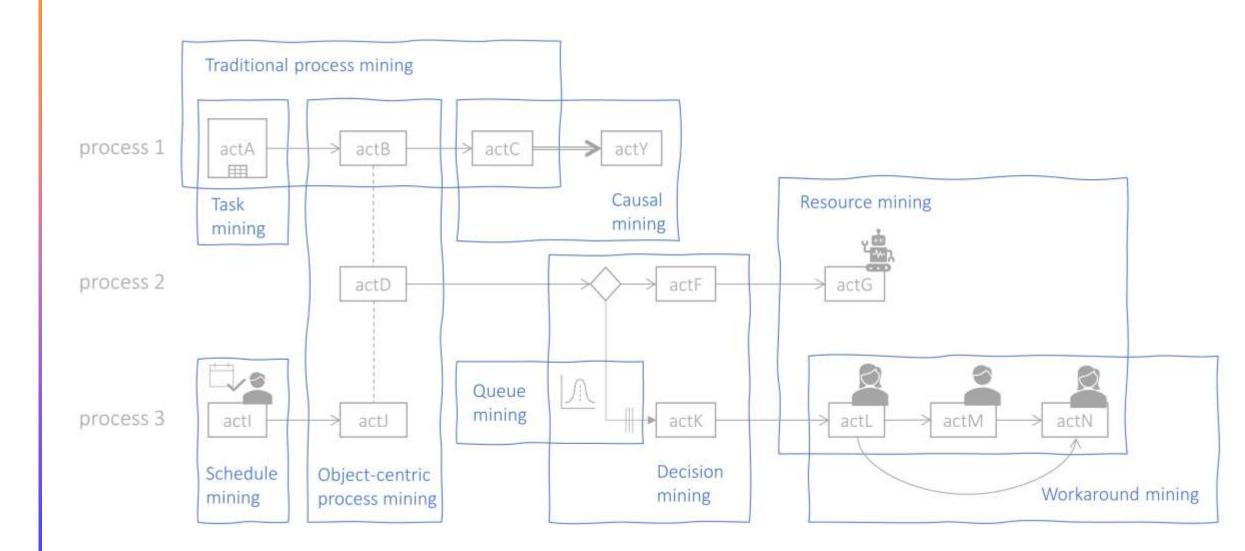
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Expect the majority of the work to take place in July. The advantage is that you are not teaching during that period, so you should be fine.

Would you like me to block two mornings in July to work on the reviews? Typically, you are more productive in the morning, especially when you only check your emails after lunch.







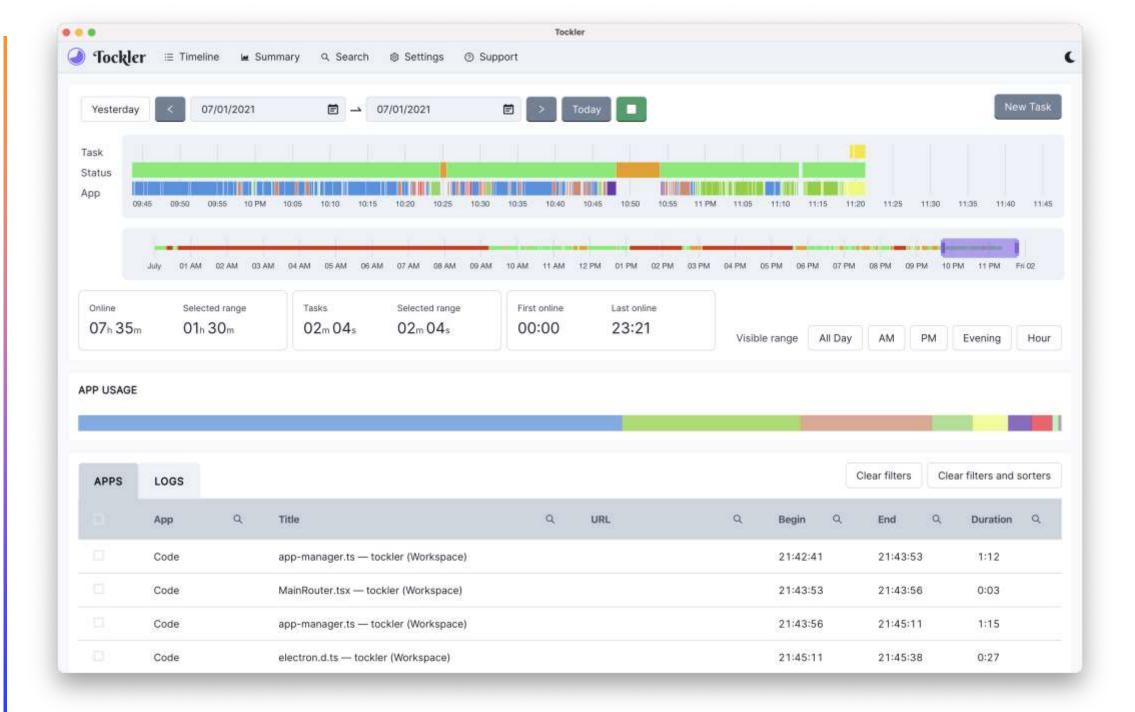
WHAT DATA TO COLLECT?

- Cross-system data
- Cross-*process* data
- Reasonable in terms of privacy



Active Window Tracking using Tockler

- Automatically records active windows
- Records app, window title, start time, and end time
- Option to export locally to csv
- Open source, lightweight





Exploratory case study in our research group

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- Tool selection	- Data collected and assessed by researcher 1 - Technical instructions - Consent form	- Data collected by 10 participants	- Labelling and analysis by two participants	- Focus group to discuss opportunities
December '22	Jan – Feb ′23	March '23	April – May '23	30 May '23

Data collection

		PERFORMANCE ARE	AS
Core activity	Framework	Results	Activities
Coordinating and monitoring the progress of their own research	Individual research plan	Realising objectives of the research plan	 Coordinating with other research or substudies Assigning responsibilities and giving instructions to academic and research support staff Monitoring the progress and quality of the execution of job assignments issued to academic and research support staff
7. Execution of research		26	
Collecting, analysing and interpreting research data	Research plan Scientific criteria Protocols	Formulating an answer to the problem the research is centred on	 Drafting a research plan Coordinating the research questions and working hypotheses with the Professor or Associate Professor Creating a literature review, attending symposiums and conferences and discussions with experts Formulating the research question, working hypotheses and specifying the research data required, research methods and target groups Exchanging knowledge with fellow national and international researchers and experts Safeguarding the academic integrity of the research
8. Publication of research			
Publishing research results	In consultation with co-authors Criteria of the selected medium	Sharing the knowledge and insight with colleagues, as well as receiving relevant feedback, and improving the positioning of the field of expertise	 Drafting publications for recognised academic journals and trade journals Drafting conference papers and giving lectures at conferences Giving presentations at external organisations Adapting the publication following responses from reviewers and fellow researchers
9. Student supervision			
Supervising students as well as assessing students in their execution of and their progress regarding assignments		Enabling students to complete the assignments within the prescribed period	 Discussing possible assignments with students Discussing the structure, provision and progress of the assignment with students Assessing the students' assignments and submitting the assessment to the Board of Examiners
10. Supervising PhD candidate	25	10-	
As the co-supervisor, providing in- depth supervision of PhD candidates regarding the execution and progress of the PhD research	After consultation with the supervisor	Contributing to high-quality research and the timely completion of the PhD candidates' theses	 Informing PhD candidates on possible doctoral thesis subjects Discussing the progress of research and substudies with PhD candidates Co-assessing the PhD theses of PhD candidates Providing the supervisor with input for the assessment of PhD candidates Supervising PhD candidates in the preparation and provision of a course component to be taught together and providing relevant
11. Patient care	1)) 1))	a	
Drafting a treatment plan (specialist dental care, specialist veterinary care) and having it carried out	After referral by an external practitioner (dentist, veterinarian)	Development of treatment skills and/or improving patients' health	 Supervising trainee specialists/dentists on their patient care responsibilities in the relevant field of research Ensuring the implementation and evaluation of the practices considered appropriate for diagnostics and/or treatment Providing care Participating in or leading patient case reviews Updating and monitoring medical reports

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				-	Activity	
Арр	Туре	Title	Begin	End		Case
			28-3-2023	20 2 2022	Adapting the publication following responses from reviewers and fellow	
Google Chrome		New Tab - Google Chrome	10:51		researchers	RCIS paper on recording techniques
doogle officine			10.01	10.01	Adapting the publication following	
			28-3-2023	28-3-2023	Presponses from reviewers and fellow	
Google Chrome	e AppTrackItem	EasyChair Home Page - Google Chrome	10:51	10:51	researchers	RCIS paper on recording techniques
					Adapting the publication following	
			28-3-2023		responses from reviewers and fellow	
Google Chrome	e AppTrackItem	Your Projects - Overleaf, Online LaTeX Editor - Google Chrome	10:51	10:51	researchers	RCIS paper on recording techniques
					Adapting the publication following	
	T	Lan in the Free Chain - Canada Charman	28-3-2023		responses from reviewers and fellow	
Google Chrome	e AppTrackitem	Log in to EasyChair - Google Chrome	10:51	10:51	researchers Adapting the publication following	RCIS paper on recording techniques
			28-3-2023	28-3-2023	Responses from reviewers and fellow	
Google Chrome	e AppTrackItem	Iris Beerepoot, Welcome to EasyChair! - Google Chrome	10:51		researchers	RCIS paper on recording techniques
coogle enrente					Adapting the publication following	
			28-3-2023	28-3-2023	responses from reviewers and fellow	
Google Chrome	e AppTrackItem	Paper 106 - Google Chrome	10:51		researchers	RCIS paper on recording techniques
					Adapting the publication following	
			28-3-2023		responses from reviewers and fellow	
Google Chrome	e AppTrackItem	Update or Upload Files for Paper 106 - Google Chrome	10:52	10:52	researchers	RCIS paper on recording techniques
					Adapting the publication following	
	T	Research Paper - A Peek Into The Working Day - Hajo - Iris - Tea -	28-3-2023		responses from reviewers and fellow	
Google Chrome	e AppTrackitem	Online LaTeX Editor Overleaf - Google Chrome	10:52	10:57	researchers	RCIS paper on recording techniques
		Research_PaperA_Peek_Into_The_Working_DayHajoIrisT	28-3-2023	28-3-2022	Adapting the publication following responses from reviewers and fellow	
Adobe Acrobat	AppTrackItem	ea (4).pdf - Adobe Acrobat Pro (32-bit)	20-3-2023		responses from reviewers and lenow	RCIS paper on recording techniques
, laoso / lorobat	, app indekiterin		10.07	10.07	Adapting the publication following	
			28-3-2023	28-3-2023	Presponses from reviewers and fellow	
Adobe Acrobat	AppTrackItem	Save as PDF	10:57		researchers	RCIS paper on recording techniques
					Adapting the publication following	
			28-3-2023		responses from reviewers and fellow	
Adobe Acrobat	AppTrackItem	Save As	10:57	10:57	researchers	RCIS paper on recording techniques



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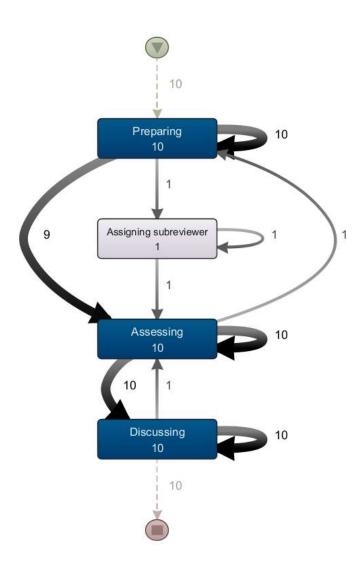
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Analysis and opportunities

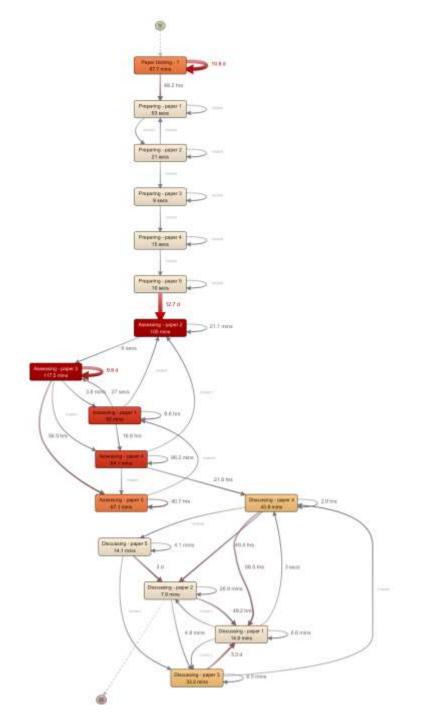
Reviewing individual papers

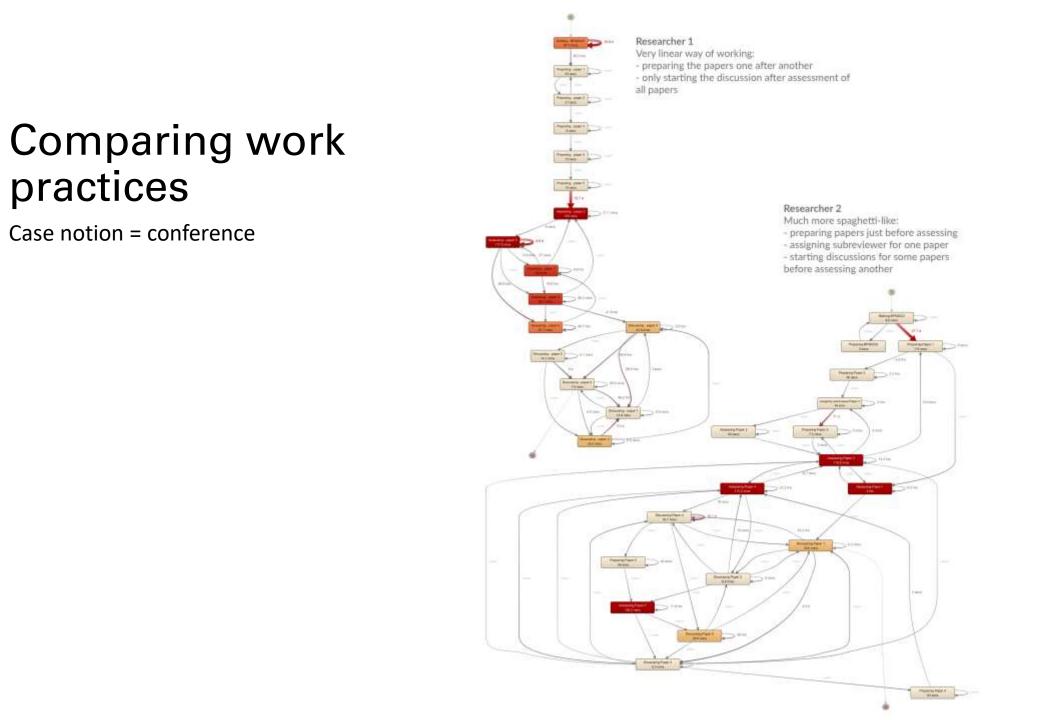
Case notion = individual papers



Program Committee work

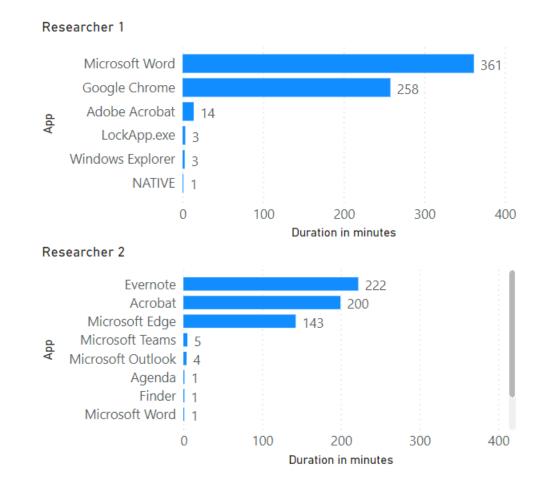
Case notion = conference

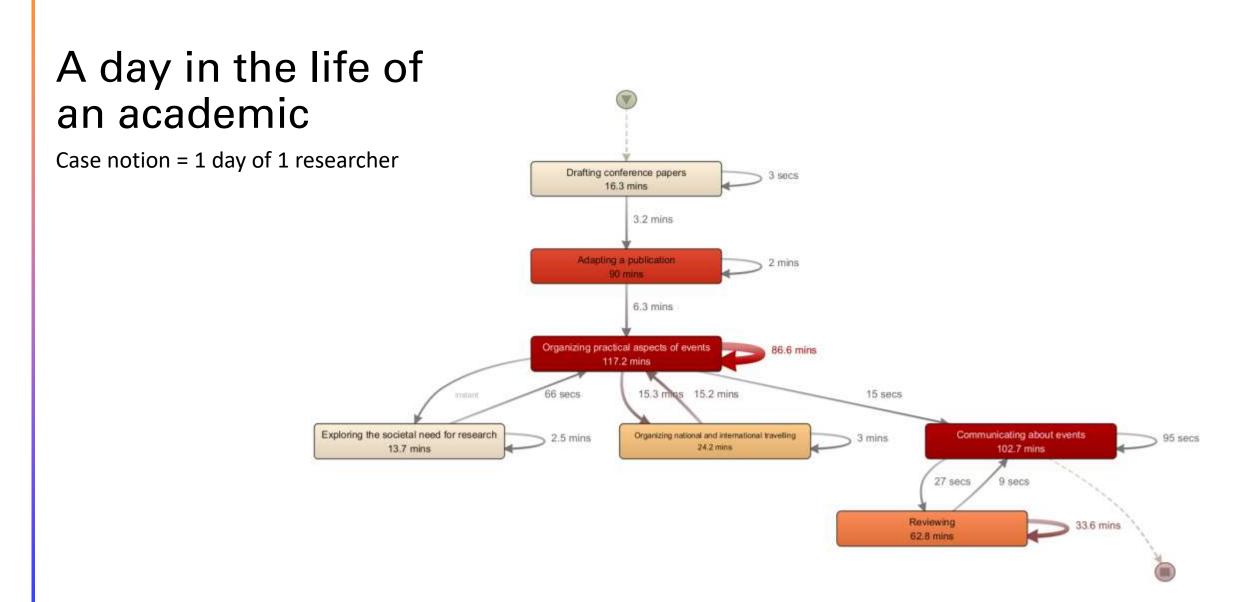




Working across systems

Switching back and forth between Word, Chrome and Acrobat / Evernote, Acrobat and Edge





Opportunities of AWT

1.

Recording of previouslyunrecorded work practices 2.

Exposing the relations between processes

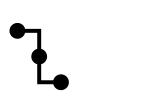
3.

Navigating across levels of granularity

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WHAT'S NEXT

- Automatic labelling
- Anonymisation of titles
- Combination with other data (location, wearables, ...)
- Making sense of the information (-> Tiramisù framework!)

Join us! tinyurl.com/ActiveWindowTracking





THANK YOU

Iris Beerepoot i.m.beerepoot@uu.nl www.irisbeerepoot.com