4. Workshop Program

The proposed program aims to first introduce all participants to the general topic of job coding via review presentations (in red), followed by talks on current state-of-the-art automatic coding tools delivered by their developers (in green). In the first two days general discussion sessions (in purple) are also included before the day concludes to promote interaction, consolidate existing knowledge, and stimulate new ideas. Once all participants are up-to-date with the general topic and current best available tools, the workshop progresses into working sessions (in blue) where participants are divided into two subgroups to improve various aspects of job coding, automation, its applications, and future development. After working separately, the subgroups the return to the overall group for discussion sessions (in purple) to share their findings and receive input from colleagues with different backgrounds. The proposed program directly contributes to the intended goals of the workshop, namely: 1) further progress on the benchmarking dataset; 2) document on automatic coding algorithm performance and best practises; and 3) strategic roadmap document for future development areas, topics, and collaboration opportunities.

The program may be attended both in person and online. We expect online participants to be able to view presentations and participate in discussions via Zoom.

Table 1: Proposed program by day

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<tr>
<th>Time</th>
<th>Day 1</th>
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<td>9:00-10:15</td>
<td>[later start on first day. This slot could be made available if we need it]</td>
<td>Manual coding – workflow and reliability (Lead: Margaret Birch)</td>
<td>Benchmarking dataset – current status, upcoming work, potential additional data sources (Lead: Calvin Ge)</td>
<td>Coding group sharing codes, results and highlights (Lead: Chris Baker)</td>
<td>Coding group: document on algorithm performance, best practises (Lead: Egon van den Broek)</td>
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<td>10:15-10:30</td>
<td>Coffee</td>
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| 10:30-12:00  | Introduction of Lorentz Center, attendees, goals, and agenda (Lead: Calvin Ge) | Rule-based automatic coding – overview and sample tool (CASCOT – Peter Elias)  
Data-based automatic coding – overview and sample tool (NIOCCS/SOCER – Melissa Friesen) | Coding subgroup day: developing codes for automatic coding of a “gold standard file” (Lead: Chris Baker)  
Researcher subgroup day: How do we make occ codes work better? And how do we make better occ codes? (Lead: Martie van Tongeren ) |
| 12:00-13:30  | Lunch                                                                     | Lunch                                                                   | Lunch                                                                   |
| 13:30-15:00  | What are job/industry codes? Why were they created in the first place? ISCO-2028 update. (Lead: Lara Badre) | occCoding R package – overview and sample tool (Malte Schierholz)  
OPERAS – overview and sample tool (Susan Peters) | As above  
Joint discussion on coding issues (Lead: Dan Russ)  
Joint discussion on coding best practices document and strategic roadmap document (Lead: Calvin Ge) |
| 15:00-15:15  | Coffee                                                                    | Coffee                                                                   | Coffee                                                                   |
| 15:15-16:45  | Review of various applications of job and industry codes – official statistics, economics, health, sociology. Plus joint discussions on key similarities and differences (Panel: Anna Salomons, Cheryl Peters, Kea Tijdens) | PROCODE – overview and sample tool (Irina Canu)  
ANA-NOC – overview and sample tool (Chris Baker)  
Recap and general discussion: what is the state-of-the-art in automated coding? | As above  
Joint discussion on researcher needs (Lead: Susan Peters)  
[Early end – this is an optional extra session if needed] |
| Evening      | Wine and cheese                                                          | Workshop dinner                                                          |                                                                         |