

# Dagstuhl Perspectives Workshop 26162

## Autonomous AI Agents in Computer Security

April 12–17, 2026 | Schloss Dagstuhl, Wadern, Germany

Organizers: Alvaro Cárdenas (UC Santa Cruz) · Kathrin Grosse (Independent Researcher)

· Nicole Nichols (Palo Alto Networks) · Konrad Rieck (TU Berlin)

Tentative agenda subject to change.

### Sunday, April 12 — Arrival

15:00–19:00	<b>Check-in</b>	Self-service check-in	
18:00	<i>Dinner</i>	Welcome dinner — randomized seating begins	
20:00–late	<b>Evening Social</b>	Wine bar, billiards, foosball, ping pong.	

### Monday, April 13 — Discover & Commit

7-7:45am	<b>Running/biking club</b>	Optional activity every morning.	
7:30-8:45am	<b>Breakfast</b>		
09:00–09:30	<b>Workshop Opening</b>	Organizers present: workshop goals, the week's arc, connection to IEEE S&P special issue (deadline May 1), and the Dagstuhl Manifesto deliverable. Set expectations: every participant leaves with a group, a position, and a writing plan.	
09:30–10:30	<b>Participant Introductions</b>	Each participant: 2 min, one slide. Format: your name, one sentence on your expertise, and one bold claim or open question about AI agents in security.	<b>Lightning round</b>
10:30–10:45	<i>Coffee Break</i>		
10:45–12:15	<b>Participant Introductions</b>	Continued — remaining participants	<b>Lightning round</b>
12:15–14:00	<i>Lunch</i>	Randomized seating	
14:00–15:00	<b>Problem Mapping</b>	Each participant writes 2–3 research directions, challenges, topics of interest, on large cards (one per card). Cards go on the wall. Silent reading (10 min). Then collaborative clustering: participants physically move cards into thematic groups, discussing as they go.	<b>Post-it + affinity mapping</b>
15:00–15:30	<i>Coffee &amp; Cake</i>	Served in dinner hall	
15:30–16:15	<b>Speed Discussions</b>	Top 6 challenge clusters assigned to 6 tables. Participants rotate through 3 tables of interest (15 min each). At each table: Is this the right framing? What's the core question? What would a paper argue?	<b>Speed dating / carousel</b>
16:15–16:45	<b>Priority Vote</b>	Each participant gets 3 dot-votes. Vote on the challenge clusters you most want to work on. Top 5–6 clusters survive. Results announced immediately.	<b>Dot-voting</b>
16:45–17:30	<b>Working Group Formation</b>	Surviving clusters become working groups. Self-select (organizers balance if needed). Each group picks a lead, a scribe, and a devil's advocate.	<b>Self-selection + roles</b>
17:30–18:00	<b>Group Kickoff</b>	First working session:	
18:00	<i>Dinner</i>	Randomized seating — cross-pollinate ideas	
20:00–late	<b>Evening Social</b>	Wine bar, billiards, foosball, ping pong.	

**Tuesday, April 14** — Write & Stress-Test

7-7:45am	<b>Running/biking club</b>	Optional activity every morning.	
7:30-8:45am	<b>Breakfast</b>		
09:00–09:45	<b>Research Talks I (TBD)</b>	Somesh Jha: Formal Approaches to Securing Agents Monica Landoni: Collaborative Design	
09:45–10:30			
10:30–10:45	<i>Coffee Break</i>		
10:45–12:15	<b>Group Kickoff</b>	First working session: agree on the core claim your group will defend. What do you believe is true? Why does it matter?	
12:15–13:45	<i>Lunch</i>	Randomized seating	
13:45–14:00	<b>Group Picture</b>	Meet at the entrance gate and walk to chapel	
14:00–14:45	<b>Research Talks II (TBD)</b>	Wenke Lee: Constraint-Driven, Threat-Intelligence-Aware Self-Auditing AI Developers Andrew Paverd: Challenges and Opportunities for Vulnerability Response	
15:30–16:00	<i>Coffee &amp; Cake</i>		
16:00–18:00	<b>Group Work</b>	Agree on the core claim your group will defend. What do you believe is true? Why does it matter?	
		Prepare key points to present on Wednesday	
18:00	<i>Dinner</i>		
20:00–late	<b>Evening Social</b>	Wine bar, billiards, foosball, ping pong.	

**Wednesday, April 15** — Deepen & Recharge

7-7:45am	<b>Running/biking club</b>	Optional activity every morning.	
7:30-8:45am	<b>Breakfast</b>		
09:00–10:30	<b>Position Statement Presentations</b>	Each group presents their position (5 min) followed by constructive challenge from the room (5 min).	
10:30–10:45	<i>Coffee Break</i>		
10:45–12:15	<b>Breakout Sessions</b>	key arguments per section	<i>Paper skeleton</i>
12:15–14:00	<i>Lunch</i>		
14:00–20:00	<b>Social Event</b>	Traditional Dagstuhl Wednesday afternoon excursion. Hike, sightseeing, or activity.	<i>Dagstuhl tradition</i>
18:00	<i>Dinner</i>		
20:00–late	<b>Evening Social</b>	Wine bar, billiards, foosball, ping pong.	

**Thursday, April 16** — Present & Plan

7-7:45am	<b>Running/biking club</b>	Optional activity every morning.	
7:30-8:45am	<b>Breakfast</b>		
09:00–10:30	<b>Group Presentations I</b>	Groups 1–3: 15 min presentation + 15 min plenary discussion each.	<i>Presentation + Q&amp;A</i>

10:30–10:45	<i>Coffee Break</i>		
<b>10:45–12:15</b>	<b>Group Presentations II</b>	Groups 4–6: 15 min presentation + 15 min plenary discussion each.	<b>Presentation + Q&amp;A</b>
12:15–14:00	<i>Lunch</i>	Randomized seating	
<b>14:00–15:30</b>	<b>Research Talks III (TBD)</b>	Mario Fritz: TBD Lorenzo Cavallaro: TBD	
15:30–16:00	<i>Coffee &amp; Cake</i>		
<b>16:00–17:00</b>	<b>Group Discussion</b>	Finalize writeup and prepare plans for future if group wants to submit to the special issue of IEEE S&P	
<b>17:00–17:45</b>			
18:00	<i>Dinner</i>	Last group dinner	
<b>20:00–late</b>	<b>Farewell Social</b>	Wine bar, music room. Final night together.	

### Friday, April 17 — Wrap-Up & Departure

<b>7-7:45am</b>	<b>Running/biking club</b>	Optional activity every morning.	
<b>7:30-8:45am</b>	<b>Breakfast</b>		
<b>09:00–10:00</b>	<b>Future Directions Discussion</b>	Open plenary: What did the workshop reveal? What collaboration opportunities continue beyond Dagstuhl? What research should happen next?	<b>Open plenary</b>
<b>10:00–10:30</b>	<b>Milestones</b>	Which groups are writing papers?	
10:30–10:45	<i>Coffee Break</i>		
<b>10:45–11:30</b>	<b>Feedback &amp; Survey</b>	Open feedback round and Dagstuhl survey.	<b>Dagstuhl survey</b>
<b>11:30–12:00</b>	<b>Closing Remarks</b>	Summary of outcomes, thanks, and next steps. Appoint collector for Dagstuhl Reports abstracts.	
12:15–13:15	<i>Lunch &amp; Departure</i>	Safe travels!	

**Key Dates:** IEEE S&P submission: May 1, 2026 | Publication: Nov/Dec 2026 | Dagstuhl Manifesto: ~8–12 weeks post-workshop  
**Meals:** Breakfast 7:30–8:45 | Lunch 12:15 | Dinner 18:00 (seating randomized) | Coffee 10:00–11:00 | Cake 15:00–16:00

## Alternative Schedule Options Suggested by Claude:

Three alternative approaches are presented below. Each preserves the same Sunday arrival, Friday wrap-up, Wednesday social, Thursday panel, and paper planning session.

### At a Glance

	Option A: Groups First	Option B: Discussion-Driven	Option C: Inspire Then Build
Group formation	Mon afternoon	Tue afternoon	Tue afternoon
Total group work	~12 hours	~7 hours	~10 hours
Invited talk slots	3	3	5
Plenary discussion	~4 hours	~8 hours	~4 hours
Best for	Max output, concrete paper drafts	Community alignment on challenges	Diverse group needing shared grounding

### Option A: Groups First

Form groups early, maximize dedicated working time. Talks are brief catalysts, not the main event.

Monday, April 13 — Meet, Map, Mobilize		
09:00–09:30	<b>Workshop Opening</b>	Goals, structure, IEEE S&P special issue overview, Manifesto process
09:30–10:30	<b>Participant Introductions</b>	2–3 min per person (one slide): your expertise and the challenge that drives your work
10:30–10:45	<i>Coffee Break</i>	
10:45–12:15	<b>Participant Introductions</b>	Continued
12:15–14:00	<i>Lunch / Siesta</i>	
14:00–14:45	<b>Invited Talk I (TBD)</b>	Scene-setting overview of the landscape
15:00–15:30	<i>Coffee &amp; Cake</i>	
15:30–16:30	<b>Challenge Mapping</b>	Pitch open problems, cluster via affinity mapping on a shared board
16:30–17:00	<b>Priority Vote &amp; Group Formation</b>	Dot-voting. Top 5–6 themes become working groups. Self-select.
17:00–18:00	<b>Working Group Kickoff</b>	Define scope, assign roles, sketch initial outline
18:00	<i>Dinner</i>	

Tuesday, April 14 — Deep Work I		
09:00–09:45	<b>Invited Talk II (TBD)</b>	Targeted talk to spark new angles
09:45–10:30	<b>Breakout Sessions</b>	Working group time
10:30–10:45	<i>Coffee Break</i>	
10:45–12:15	<b>Breakout Sessions</b>	Develop arguments, identify gaps

12:15–14:00	<i>Lunch / Siesta</i>	
<b>14:00–15:30</b>	<b>Breakout Sessions</b>	Cross-group ambassadors encouraged
15:30–16:00	<i>Coffee &amp; Cake</i>	
<b>16:00–17:00</b>	<b>Mid-Week Check-In</b>	5-min progress flash per group. Plenary feedback.
<b>17:00–18:00</b>	<b>Open Working Time</b>	Groups continue or explore cross-group ideas
18:00	<i>Dinner</i>	

### Wednesday, April 15 — Deep Work II & Social

<b>09:00–10:30</b>	<b>Breakout Sessions</b>	Refine findings, begin drafting presentations
10:30–10:45	<i>Coffee Break</i>	
<b>10:45–12:15</b>	<b>Breakout Sessions</b>	Prepare presentation outlines
12:15–13:15	<i>Lunch</i>	
<b>13:15–14:00</b>	<b>Invited Talk III (TBD)</b>	Industry or practitioner perspective
<b>14:00–20:00</b>	<b>Social Event</b>	Afternoon excursion organized by Schloss Dagstuhl

### Thursday, April 16 — Present & Synthesize

<b>09:00–10:30</b>	<b>Group Presentations I</b>	Groups 1–3: 15 min + 15 min plenary discussion each
10:30–10:45	<i>Coffee Break</i>	
<b>10:45–12:15</b>	<b>Group Presentations II</b>	Groups 4–6: 15 min + 15 min plenary discussion each
12:15–14:00	<i>Lunch / Siesta</i>	
<b>14:00–15:30</b>	<b>Panel: AI Agents and Society</b>	Podium discussion (4 panelists, preferably industry)
15:30–16:00	<i>Coffee &amp; Cake</i>	
<b>16:00–17:00</b>	<b>Paper Planning for IEEE S&amp;P</b>	Crystallize paper ideas, co-author teams, milestones
<b>17:00–17:45</b>	<b>Manifesto Planning</b>	Key messages, writing leads, section owners
18:00	<i>Dinner</i>	

### Friday, April 17 — Wrap-Up

<b>09:00–10:00</b>	<b>Future Directions Discussion</b>	Open plenary: emerging themes, collaboration opportunities
<b>10:00–10:30</b>	<b>Writing Milestones</b>	Lock in timelines for manifesto and IEEE S&P submissions
10:30–10:45	<i>Coffee Break</i>	
<b>10:45–11:30</b>	<b>Feedback &amp; Survey</b>	Open feedback round and Dagstuhl survey
<b>11:30–12:00</b>	<b>Closing Remarks</b>	Summary, thanks, next steps
12:15–13:15	<i>Lunch &amp; Departure</i>	

## Option B: Discussion-Driven

Structured plenary discussions and debates throughout the week to surface diverse perspectives before focused group work.

Monday, April 13 — Landscape & Provocations		
09:00–09:30	<b>Workshop Opening</b>	Goals, structure, IEEE S&P special issue, Manifesto process
09:30–10:30	<b>Participant Introductions</b>	2–3 min per person: your expertise and one bold claim about AI agents in security
10:30–10:45	<i>Coffee Break</i>	
10:45–12:15	<b>Participant Introductions</b>	Continued
12:15–14:00	<i>Lunch / Siesta</i>	
14:00–14:45	<b>Invited Talk I (TBD)</b>	Setting the stage — state of the field
15:00–15:30	<i>Coffee &amp; Cake</i>	
15:30–17:00	<b>Fishbowl: Offensive vs. Defensive AI Agents</b>	Structured fishbowl debate. Rotating seats, open mic.
17:00–17:45	<b>Challenge Harvesting</b>	Capture open questions and tensions from the day. Organize on shared wall.
18:00	<i>Dinner</i>	

Tuesday, April 14 — Explore & Converge		
09:00–09:45	<b>Invited Talk II (TBD)</b>	Deep dive on a specific challenge area
09:45–10:30	<b>Invited Talk III (TBD)</b>	Complementary perspective (e.g., industry vs. academia)
10:30–10:45	<i>Coffee Break</i>	
10:45–12:15	<b>World Café</b>	Rotating small-group discussions on 5–6 themes. 25 min per table, then rotate.
12:15–14:00	<i>Lunch / Siesta</i>	
14:00–15:30	<b>World Café Readouts &amp; Plenary Debate</b>	Table hosts report back. Open debate to sharpen and prioritize.
15:30–16:00	<i>Coffee &amp; Cake</i>	
16:00–16:45	<b>Working Group Formation</b>	Top themes become groups. Self-select. Define scope, leads, scribes.
16:45–18:00	<b>Working Group Kickoff</b>	Initial brainstorming and work plan
18:00	<i>Dinner</i>	

Wednesday, April 15 — Breakout & Social		
09:00–10:30	<b>Breakout Sessions</b>	Working group time — develop ideas, structure arguments
10:30–10:45	<i>Coffee Break</i>	
10:45–12:15	<b>Breakout Sessions</b>	Cross-group ambassadors encouraged
12:15–13:15	<i>Lunch</i>	
14:00–20:00	<b>Social Event</b>	Afternoon excursion organized by Schloss Dagstuhl

Thursday, April 16 — Present, Debate, Plan		
09:00–10:30	<b>Group Presentations I</b>	Groups 1–3: 15 min + 15 min plenary discussion each
10:30–10:45	<i>Coffee Break</i>	
10:45–12:15	<b>Group Presentations II</b>	Groups 4–6: 15 min + 15 min plenary discussion each
12:15–14:00	<i>Lunch / Siesta</i>	
14:00–15:00	<b>Cross-Cutting Discussion</b>	Identify connections, contradictions, and gaps across all groups
15:00–15:30	<i>Coffee &amp; Cake</i>	

15:30–16:30	<b>Panel: AI Agents and Society</b>	Podium discussion (4 panelists, preferably industry)
16:30–17:15	<b>Paper Planning for IEEE S&amp;P</b>	Co-author teams, paper outlines, milestones
17:15–17:45	<b>Manifesto Planning</b>	Key messages and writing responsibilities
18:00	<i>Dinner</i>	

### Friday, April 17 — Wrap-Up

09:00–10:00	<b>Future Directions Discussion</b>	What did we miss? What should the community prioritize?
10:00–10:30	<b>Writing Milestones</b>	Confirm timelines for manifesto and IEEE S&P papers
10:30–10:45	<i>Coffee Break</i>	
10:45–11:30	<b>Feedback &amp; Survey</b>	Open feedback round and Dagstuhl survey
11:30–12:00	<b>Closing Remarks</b>	Summary, thanks, next steps
12:15–13:15	<i>Lunch &amp; Departure</i>	

## Option C: Inspire Then Build

Front-load talks to build shared context, then pivot entirely to working group time. Two clear phases: absorb, then create.

Monday, April 13 — Context & Perspectives I		
09:00–09:30	<b>Workshop Opening</b>	Goals, structure, IEEE S&P special issue, Manifesto process
09:30–10:30	<b>Participant Introductions</b>	2–3 min per person: background and current focus
10:30–10:45	<i>Coffee Break</i>	
10:45–12:15	<b>Participant Introductions</b>	Continued
12:15–14:00	<i>Lunch / Siesta</i>	
14:00–14:45	<b>Invited Talk I (TBD)</b>	30 min + 15 min discussion
14:45–15:15	<b>Short Talk (TBD)</b>	15 min + 15 min discussion
15:15–15:45	<i>Coffee &amp; Cake</i>	
15:45–16:30	<b>Invited Talk II (TBD)</b>	30 min + 15 min discussion
16:30–17:00	<b>Short Talk (TBD)</b>	15 min + 15 min discussion
17:00–17:45	<b>Open Discussion</b>	Reactions, questions, and themes emerging from the day's talks
18:00	<i>Dinner</i>	

Tuesday, April 14 — Context & Perspectives II + Group Formation		
09:00–09:45	<b>Invited Talk III (TBD)</b>	30 min + 15 min discussion
09:45–10:30	<b>Invited Talk IV (TBD)</b>	30 min + 15 min discussion
10:30–10:45	<i>Coffee Break</i>	
10:45–11:30	<b>Invited Talk V (TBD)</b>	30 min + 15 min discussion
11:30–12:15	<b>Challenge Collection</b>	Participants propose open problems inspired by the talks. All captured on shared board.
12:15–14:00	<i>Lunch / Siesta</i>	
14:00–15:00	<b>Challenge Prioritization</b>	Affinity mapping into clusters. Dot-voting on priorities.
15:00–15:30	<i>Coffee &amp; Cake</i>	
15:30–16:15	<b>Working Group Formation</b>	Top 5–6 themes become groups. Self-selection, define leads and scribes.
16:15–18:00	<b>Working Group Kickoff</b>	Define scope, draft initial outline, assign tasks
18:00	<i>Dinner</i>	

Wednesday, April 15 — Build I & Social		
09:00–10:30	<b>Breakout Sessions</b>	Develop core arguments and findings
10:30–10:45	<i>Coffee Break</i>	
10:45–12:15	<b>Breakout Sessions</b>	Cross-group visits encouraged
12:15–13:15	<i>Lunch</i>	
14:00–20:00	<b>Social Event</b>	Afternoon excursion organized by Schloss Dagstuhl

Thursday, April 16 — Build II, Present, & Plan		
09:00–10:30	<b>Breakout Sessions</b>	Final group work — prepare presentations, refine conclusions
10:30–10:45	<i>Coffee Break</i>	
10:45–12:15	<b>Group Presentations I</b>	Groups 1–3: 15 min + 15 min plenary discussion each
12:15–14:00	<i>Lunch / Siesta</i>	

<b>14:00–15:30</b>	<b>Group Presentations II</b>	Groups 4–6: 15 min + 15 min plenary discussion each
15:30–16:00	<i>Coffee &amp; Cake</i>	
<b>16:00–17:00</b>	<b>Panel: AI Agents and Society</b>	Podium discussion (4 panelists, preferably industry)
<b>17:00–17:45</b>	<b>Paper &amp; Manifesto Planning</b>	IEEE S&P paper teams, milestones (May 1 deadline). Manifesto section assignments.
18:00	<i>Dinner</i>	

### Friday, April 17 — Wrap-Up

<b>09:00–10:00</b>	<b>Future Directions Discussion</b>	Research priorities, collaboration plans, next steps
<b>10:00–10:30</b>	<b>Writing Milestones</b>	Finalize timelines for all deliverables
10:30–10:45	<i>Coffee Break</i>	
<b>10:45–11:30</b>	<b>Feedback &amp; Survey</b>	Open feedback round and Dagstuhl survey
<b>11:30–12:00</b>	<b>Closing Remarks</b>	Summary, thanks, next steps
12:15–13:15	<i>Lunch &amp; Departure</i>	