

Questionnaire Instruments and Response Definitions

Verified closed items, edition specific structures, harmonization rules, and complete aggregate category counts

Associated manuscript: Training Space Software Engineers: Connecting Computing, Science, and Professional Practice in an International School

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Prepared by Francesco Basciani, Martina De Sanctis, Franco Raimondi, Daniele Masti, Amleto Di Salle, Martina Feliciani, Davide Zaminga, Riccardo Mastropietro, and Patrizio Pelliccione.

This document contains deidentified study documentation. Participant level administrative records, questionnaire rows, open comments, identity documents, financial information, visa files, private communications, and travel records are not included.

1. Source and Administration

The retained response exports contain 77 returned forms for 2025 and 82 for 2026. Every common closed item is complete. Question wording, response categories, and scale endpoints were checked against the retained form definitions.

The exports contain no stable respondent identifier. A timestamp is not treated as proof of a distinct person. Participants could select more than one attended track. Thirty four 2025 forms and 22 2026 forms select multiple tracks, so ratings are analyzed at school level and are not attributed to individual tracks.

2. Background Items

Both editions asked about tracks attended, participant profile, organization type, scholarship receipt, and how the respondent learned about the school. The 2025 track options were Robotics, Digital Twins, and Artificial Intelligence. The 2026 options were Robotics, Artificial Intelligence, and GEO. Multiple selection was allowed for tracks and organization type.

3. Deidentified Instrument Wording

The wording below preserves the substantive wording of the retained form definitions while replacing the school name with the generic expression the school. Open response prompts are not reproduced.

ID	Closed item wording
Q01	To what extent do you think the school supported advanced university and industry collaboration?
Q02	Were you able to interact with the school speakers, both from academia and industry, and obtain the information or answers you were looking for?
Q03	To what extent do you think the school promoted internationalization?
Q04	Do you feel that you were able to expand your network of professional contacts during the school?
Q05	Do you think the school promoted or at least stimulated technology transfer?
Q06	To what extent do you think the talks you attended were appropriate to the school topics?
Q07	To what extent do you think the talks you attended were well balanced between theory and practice?
Q08	To what extent do you think the schedule, organized in four talks per day with a 1.5 hour slot for each talk, was appropriate?
Q09	To what extent do you think the coffee breaks and lunch intervals were of appropriate duration and well distributed throughout the day?
Q10	Did you have the opportunity to interact with other participants, both during talks and during informal moments such as lunches and coffee breaks?
Q11	To what extent do you agree that the number of participants was appropriate and not too high to hinder discussion and interaction?
Q12	To what extent do you feel that the organizers provided sufficient support and information, including when specific requests or questions were made?
Q13	Would you recommend a future edition of the school to your colleagues?

4. Harmonized Closed Items

The table below documents the common construct, response rule, observed aggregate summary, and comparability boundary. Side by side values are descriptive and do not estimate improvement, population change, or a program effect.

ID	Construct	Rule	2025	2026	Comparability
Q01	University and industry integration	upper categories 4 or 5	71/77 (92.2%)	67/82 (81.7%)	Equivalent question and endpoint meaning
Q02	Speaker interaction	Yes	64/77 (83.1%)	75/82 (91.5%)	Same Yes category; non-Yes labels differ
Q03	Internationalization	upper categories 4 or 5	75/77 (97.4%)	77/82 (93.9%)	Equivalent question and endpoint meaning
Q04	Professional network expansion	Yes	72/77 (93.5%)	75/82 (91.5%)	Same Yes category; non-Yes labels differ
Q05	Technology transfer reflection	Yes	65/77 (84.4%)	73/82 (89.0%)	Same Yes category; non-Yes labels differ
Q06	Topic appropriateness	upper categories 4 or 5	70/77 (90.9%)	71/82 (86.6%)	Equivalent question and endpoint meaning
Q07	Theory and practice balance	upper categories 4 or 5	50/77 (64.9%)	52/82 (63.4%)	Equivalent question; later endpoint says appropriate rather than balanced
Q08	Schedule format	upper categories 4 or 5	66/77 (85.7%)	72/82 (87.8%)	Equivalent question and endpoint meaning
Q09	Break distribution	upper categories 4 or 5	73/77 (94.8%)	74/82 (90.2%)	Equivalent question and endpoint meaning
Q10	Participant interaction	Yes	71/77 (92.2%)	82/82 (100.0%)	Same Yes category; non-Yes labels differ
Q11	Cohort size and discussion	upper categories 4 or 5	74/77 (96.1%)	76/82 (92.7%)	Equivalent question and endpoint meaning
Q12	Organizer support and information	upper categories 4 or 5	75/77 (97.4%)	71/82 (86.6%)	Equivalent question and endpoint meaning
Q13	Recommendation	Yes	77/77 (100.0%)	79/82 (96.3%)	Same Yes category; non-Yes labels differ

5. Edition Specific Items

The 2025 form includes a five point item on research or professional insight and a categorical item on responsible innovation. The 2026 form measures responsible innovation on a five point scale. Responsible innovation is therefore reported within each edition and is not treated as a harmonized cross edition item.

Recomputation Note

Independent recomputation of the deposited 2025 response rows identified four differences from percentages printed in the prior publication. The present study uses the category counts recomputed from the deposited workbook. The item level comparison and unresolved status are released in the aggregate workbook and first edition workbook check table.

6. Complete 2025 Category Counts

Counts below describe the 77 returned forms. They are not population estimates.

ID	Construct	Response category	Count	n
Q01	University and industry integration	1	0	77
Q01	University and industry integration	2	0	77
Q01	University and industry integration	3	6	77
Q01	University and industry integration	4	36	77
Q01	University and industry integration	5	35	77
Q02	Speaker interaction	only partially	13	77

ID	Construct	Response category	Count	n
Q02	Speaker interaction	yes	64	77
Q03	Internationalization	1	0	77
Q03	Internationalization	2	0	77
Q03	Internationalization	3	2	77
Q03	Internationalization	4	18	77
Q03	Internationalization	5	57	77
Q04	Professional network expansion	i don't know	5	77
Q04	Professional network expansion	yes	72	77
Q05	Technology transfer reflection	only partially	12	77
Q05	Technology transfer reflection	yes	65	77
Q06	Topic appropriateness	1	0	77
Q06	Topic appropriateness	2	1	77
Q06	Topic appropriateness	3	6	77
Q06	Topic appropriateness	4	34	77
Q06	Topic appropriateness	5	36	77
Q07	Theory and practice balance	1	0	77
Q07	Theory and practice balance	2	3	77
Q07	Theory and practice balance	3	24	77
Q07	Theory and practice balance	4	31	77
Q07	Theory and practice balance	5	19	77
Q08	Schedule format	1	0	77
Q08	Schedule format	2	2	77
Q08	Schedule format	3	9	77
Q08	Schedule format	4	17	77
Q08	Schedule format	5	49	77
Q09	Break distribution	1	0	77
Q09	Break distribution	2	0	77
Q09	Break distribution	3	4	77
Q09	Break distribution	4	14	77
Q09	Break distribution	5	59	77
Q10	Participant interaction	no	1	77
Q10	Participant interaction	sometimes	5	77
Q10	Participant interaction	yes	71	77
Q11	Cohort size and discussion	1	0	77
Q11	Cohort size and discussion	2	0	77
Q11	Cohort size and discussion	3	3	77
Q11	Cohort size and discussion	4	15	77
Q11	Cohort size and discussion	5	59	77
Q12	Organizer support and information	1	0	77
Q12	Organizer support and information	2	0	77

ID	Construct	Response category	Count	n
Q12	Organizer support and information	3	2	77
Q12	Organizer support and information	4	16	77
Q12	Organizer support and information	5	59	77
Q13	Recommendation	yes	77	77

7. Complete 2026 Category Counts

Counts below describe the 82 returned forms. They are not population estimates.

ID	Construct	Response category	Count	n
Q01	University and industry integration	1	0	82
Q01	University and industry integration	2	1	82
Q01	University and industry integration	3	14	82
Q01	University and industry integration	4	34	82
Q01	University and industry integration	5	33	82
Q02	Speaker interaction	maybe	6	82
Q02	Speaker interaction	no	1	82
Q02	Speaker interaction	yes	75	82
Q03	Internationalization	1	0	82
Q03	Internationalization	2	1	82
Q03	Internationalization	3	4	82
Q03	Internationalization	4	24	82
Q03	Internationalization	5	53	82
Q04	Professional network expansion	maybe	7	82
Q04	Professional network expansion	yes	75	82
Q05	Technology transfer reflection	maybe	8	82
Q05	Technology transfer reflection	no	1	82
Q05	Technology transfer reflection	yes	73	82
Q06	Topic appropriateness	1	0	82
Q06	Topic appropriateness	2	0	82
Q06	Topic appropriateness	3	11	82
Q06	Topic appropriateness	4	35	82
Q06	Topic appropriateness	5	36	82
Q07	Theory and practice balance	1	1	82
Q07	Theory and practice balance	2	9	82
Q07	Theory and practice balance	3	20	82
Q07	Theory and practice balance	4	28	82
Q07	Theory and practice balance	5	24	82
Q08	Schedule format	1	0	82
Q08	Schedule format	2	1	82
Q08	Schedule format	3	9	82

ID	Construct	Response category	Count	n
Q08	Schedule format	4	25	82
Q08	Schedule format	5	47	82
Q09	Break distribution	1	0	82
Q09	Break distribution	2	2	82
Q09	Break distribution	3	6	82
Q09	Break distribution	4	14	82
Q09	Break distribution	5	60	82
Q10	Participant interaction	yes	82	82
Q11	Cohort size and discussion	1	0	82
Q11	Cohort size and discussion	2	0	82
Q11	Cohort size and discussion	3	6	82
Q11	Cohort size and discussion	4	20	82
Q11	Cohort size and discussion	5	56	82
Q12	Organizer support and information	1	0	82
Q12	Organizer support and information	2	2	82
Q12	Organizer support and information	3	9	82
Q12	Organizer support and information	4	23	82
Q12	Organizer support and information	5	48	82
Q13	Recommendation	maybe	3	82
Q13	Recommendation	yes	79	82

8. Excluded Material

Timestamps, the unintended 2026 background free text field, and all open comments are excluded from the released package. No qualitative theme is reported without independent human coding, reconciliation, and an approved reuse basis.