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| ITU Logo | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION** **STANDARDIZATION SECTOR**  STUDY PERIOD 2017-2020 | | FG-AI4H-D-001-R1 | |
| **ITU-T Focus Group on AI for Health** | |
| **Original: English** | |
| **WG(s):** | | Plenary | Shanghai, 2-5 April 2019 | |
| **DOCUMENT** | | | | |
| **Source:** | | Chairman FG-AI4H | | |
| **Title:** | | Agenda of the fourth meeting ("Meeting D") of the Focus Group on Artificial Intelligence for Health (FG-AI4H) | | |
| **Purpose:** | | Admin | | |
| **Contact:** | | Thomas Wiegand Fraunhofer HHI Germany | | Email: [thomas.wiegand@hhi.fraunhofer.de](mailto:thomas.wiegand@hhi.fraunhofer.de) |

|  |  |
| --- | --- |
| **Abstract:** | This document contains the final agenda of the fourth meeting of ITU-T Focus Group on Artificial Intelligence for Health (FG-AI4H). |

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|  |  | | **Related Documents** |
| 1 | Opening | |  |
| 2 | Approval of agenda | | [D-001](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-001.docx) (Agenda; Chair); Annex C |
| 3 | Allocation of documents | | [D-001](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-001.docx) (Agenda; Chair);  Annex [B](#AnnexB) (Documentation) |
| 4 | IPR | | Annex [A](#AnnexA) |
| 5 | Management matters | | a) Working Groups |
| 6 | Report on Meeting C; other updates | | a) [C-101](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-C-101.docx) (Report Meeting C; FG-AI4H)  b) [D-004](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-004.docx) (FG-AI4H Progress Report presented to SG16)  c) Reports from ad-hoc groups  d) Reports from Topic Areas ([D-005](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-005.docx)) |
| 7 | Outcome of the workshop | | [D-002](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-002.docx) (Workshop Summary; Chair) |
| 8 | Update on projects, discussion of contributions | |  |
|  | a | Data handling policy | [D-033](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-033.docx) |
|  | b | Thematic classification | - |
|  | c | Status reports | [D-016](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-016.docx), [D-028](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-028.docx), [D-029](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-029.docx), [D-030](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-030.docx), [D-031](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-031.docx), [D-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-032.docx), [D-040](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-040.docx), [D-041](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-041.docx), [D-042](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-042.docx), [D-043](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-043.docx) |
|  | d | Use cases | [D-012](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-012.docx), [D-013](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-013.docx), [D-014](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-014.docx), [D-015](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-015.docx), [D-017](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-017.docx), [D-18](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-018.docx), [D-019](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-019.docx), [D-020](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-020.docx), [D-024](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-024.docx), [D-025](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-025.docx) |
|  | e | Other proposals | [D-011](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-011.docx) (AIcrowd benchmarking system), [D-026](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-026.docx) (Policy considerations), [D-027](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-027.docx) (ITU-T Introduction), [D-035](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-035.docx) (ToRs, AHG Benchmarking) |
| 9 | Review of previous output documents | | [D-021-R1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-021-R1.docx) (modifications to [C-103](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-C-103.docx)), [D-022](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-022.docx) (modifications to [C-105](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-C-105.docx)), [D-034](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-034.docx) (revised call for proposals), |
| 10 | Future work | |  |
|  | a | Work plan and timeline |  |
|  | b | Call for submissions |  |
| 11 | Administrative matters | |  |
|  | a | Schedule of future FG meetings and workshops | [D-003](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-003.docx) |
|  | b | Promotional activities |  |
|  | c | Press communication |  |
| 12 | Outcomes of this meeting | | a) Ad-hoc groups  b) Editing period documents |
| 13 | A.O.B. | |  |
| 14 | Closing | |  |

Annex A:  
IPR statement

As stated in ITU WTSA Resolution 1, any party participating in the work of ITU-T should, from the outset, draw the attention of the Director of TSB to any known patent or to any known pending patent application, either of their own or of other organizations. The "Patent Statement and Licensing Declaration" form from the ITU T website is to be used.

ITU T non-member organizations that hold patent(s) or pending patent application(s), the use of which may be required in order to implement an ITU T Recommendation, can submit a "Patent Statement and Licensing Declaration" to the TSB director using the form available at the ITU T website.

Is anyone present aware of further IPR information concerning texts under consideration by this Focus Group?

Annex B:  
Documentation

| Name[https://extranet.itu.int/_layouts/15/images/blank.gif?rev=40](javascript:) | Title[https://extranet.itu.int/_layouts/15/images/blank.gif?rev=40](javascript:)https://extranet.itu.int/_layouts/15/images/blank.gif?rev=40https://extranet.itu.int/_layouts/15/images/blank.gif?rev=40 | Source[https://extranet.itu.int/_layouts/15/images/blank.gif?rev=40](javascript:)https://extranet.itu.int/_layouts/15/images/blank.gif?rev=40https://extranet.itu.int/_layouts/15/images/blank.gif?rev=40 | Note |
| --- | --- | --- | --- |
| [FGAI4H-D-001](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-001.docx) ([Rev.1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-001-R1.docx)) | Agenda of the fourth meeting ("Meeting D") of the Focus Group on Artificial Intelligence for Health (FG-AI4H) | Chairman FG-AI4H |  |
| [FGAI4H-D-002](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-002.docx) | Summary slides – 4th ITU-WHO Workshop on Artificial Intelligence for Health | TSB |  |
| [FGAI4H-D-003](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-003.docx) | Schedule of future FG meetings (as of 2019-04-01) | Chairman FG-AI4H |  |
| [FGAI4H-D-004](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-004.docx) | FG-AI4H Progress Report to SG16 (July 2018 to March 2019) | Chairman FG-AI4H |  |
| [FGAI4H-D-005](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-005.docx) | Topic Group Calls for Participation | TSB |  |
| [FGAI4H-D-006](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-006.docx) | Draft ToR for the Working Group "Regulatory considerations on AI for health" | Chairman FG-AI4H |  |
| [FGAI4H-D-007](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-007.docx) | Overview Focus Group Artificial Intelligence for Health | Chairman FG-AI4H |  |
| [FGAI4H-D-011](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-011.docx) | Proposal of open-source benchmarking software: AIcrowd | AIcrowd |  |
| [FGAI4H-D-012](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-012.docx) | Automatic Generation of Diagnostic Reports for PA Chest disease on Pneumothorax, Pleural Effusion, and Rib Fractures | Wingspan Healthcare Group |  |
| [FGAI4H-D-013](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-013.docx) | Intelligent Diagnosis System for Children’s Growth and Development Based on Deep Learning Technology | Yitu Healthcare |  |
| [FGAI4H-D-014](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-014.docx) | AI based Quality Control in Stroke Treatment Service | Huimei Cloud Technology Co.Ltd |  |
| [FGAI4H-D-015](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-015.docx) | AI-Based Mining and Testing Tool for Smart Health Device Vulnerability | CAICT (China) |  |
| [FGAI4H-D-016](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-016.docx) | Standardized Benchmarking for AI-based symptom assessment. | TG-Symptom Topic Driver |  |
| [FGAI4H-D-017](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-017.docx) | Wearable Health Devices | National Institute of Metrology (China) |  |
| [FGAI4H-D-018](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-018.docx) | Automated Generation of Radiotherapy Treatment Plans using Reinforcement Learning | BioMind |  |
| [FGAI4H-D-019](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-019.docx) | Suggestions on data quality evaluation of AI for health | National Institute of Metrology (China) |  |
| [FGAI4H-D-020](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-020.docx) | Proposal: Applying AI to Provide Clinical Decision Support | Baidu | Late |
| [FGAI4H-D-021-R1](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-021-R1.docx) | Proposal to add new contents into FGAI4H-C-103: FG-AI4H Data handling and data acceptance | Chongqing University | Late |
| [FGAI4H-D-022](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-022.docx) | Proposal to change the structure of FG-AI4H-C-105: TDD template | Chongqing University | Late |
| [FGAI4H-D-023](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-023.docx) | Proposed Terms of References for Prospective WG Public and Global Health Considerations | Fraunhofer HHI | Late |
| [FGAI4H-D-024](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-024.docx) | Proposal of an AI Quality Control system: InferRead CT Chest | Infervision | Late |
| [FGAI4H-D-025](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-025.docx) | Proposal of an artificial intelligence research platform: InferScholar Center | Infervision | Late |
| [FGAI4H-D-026](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-026.docx) | Policy Principles for AI in Health – Global Health AI Strategy | Connected Health Initiative |  |
| [FGAI4H-D-027](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-027.docx) | Join ITU-T Standardization Activity | Secretariat of ITU Working Committee of MIIT |  |
| [FGAI4H-D-028](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-028.docx) | Prediction of Psychiatric Multimorbidity in a Large Pediatric Sample | TG Psy Driver | Late |
| [FGAI4H-D-029](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-029.docx) | TG Snake update | TG Snake Driver | Late |
| [FGAI4H-D-030](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-030.docx) | TG TB update | TG TB Driver | Late |
| [FGAI4H-D-031](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-031.docx) | TG Cardio update | TG Cardio Driver | Late |
| [FGAI4H-D-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-032.docx) | TG Neuro update | TG Neuro Driver | Late |
| [FGAI4H-D-033](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-033.docx) | Draft Revised "Data handling and data acceptance policy" | TSB |  |
| [FGAI4H-D-034](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-034.docx) | Draft revised Call for Proposals: use cases, benchmarking, and data | Chair WG-Operations |  |
| [FGAI4H-D-035](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-035.docx) | Draft ToR – AHG on a benchmarking platform | Chair WG-Operations |  |
| [FGAI4H-D-036](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-036.pdf) | TG Derma | TG Derma Driver | Late |
| [FGAI4H-D-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-037.docx) | Meeting notes: Standardized benchmarking of AI to prevent falls among the elderly | Fraunhofer Portugal | Late |
| [FGAI4H-D-038](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-038.docx) | Standardized benchmarking of AI for Ophthalmology (Retinal Imaging Diagnostics) | TG-Ophthalmo | Late |
| [FGAI4H-D-039](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-039.docx) | Aspects of Evaluation Procedures for Machine Learning Algorithms | Fraunhofer HHI | Late |
| [FGAI4H-D-040](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-040.docx) | Baidu Ophthalmology update | Baidu | Late |
| [FGAI4H-D-041](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-041.docx) | TG Symptom update | TG Symptom | Late |
| [FGAI4H-D-042](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-042.docx) | TG TB update | TG TB | Late |
| [FGAI4H-D-043](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-043.docx) | TG Ophthalmo update | TG Ophthalmo Driver | Late |
| [FGAI4H-D-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-D-044.pdf) | TG-Histo update | TG-Histo Driver | Late |

Annex C:  
Preliminary schedule

*The text below was the initial sequencing of documentation review and discussion. The changes effected during the meeting were not noted.*

***Wednesday, 3 April 2019***

9:30 AM

    Opening

    Approval of agenda

    IPR

    Allocation of documents

    Management matters

    Report on Meeting C

Progress report presented to SG16 (March 2019, Geneva)

Other updates

    Outcome of the workshop

10:30 AM

   Working Group on Regulatory Considerations

    [Washington, DC, US: Tuesday (!) 10:30 PM]

    [New Delhi, India: Wednesday 8:00 AM]

    [Amsterdam, The Netherlands: Wednesday 4:30 AM (!)]

11:00 AM

    Coffee break

11:30 AM

    <on site>

    Tutorial about how to actively engage in ITU in China, and to contribute to the Focus Group

    Ms Xu Weiling, Director of Secretariat of ITU Working Committee, Ministry of Industry and Information Technology, China

12:00 AM

    Lunch

 1:30 PM

    <on site>

    D-013: Intelligent Diagnosis System for Children’s Growth and Development Based on Deep Learning Technology

    Hao Ni & Cong Fang (Yitu Healthcare), China

1:55 PM

    <on site>

    D-014: AI based Quality Control in Stroke Treatment Service

    Huiqin Liu (Huimei Cloud Technology Co. Ltd.), China

2:20 PM

    <on site>

    D-017: Wearable Health Devices

    Xiang Ding & Chengwei Li (National Institute of Metrology China), China

2:45 PM

    <on site>

    D-019: Suggestions on data quality evaluation of AI for health

    Wenli Liu & Chengwei Li (National Institute of Metrology China), China

3:10 PM

    <remote>

    D-011: Proposal of open-source benchmarking software: AIcrowd

    Sharada Mohanty, Switzerland

    [Swiss time: Wednesday, 9:10 AM]

    Followed by discussions about the Benchmarking Platform

3:50 PM

    Coffee break

 4:05 PM

    <on site>

    D-020: Proposal: Applying AI to Provide Clinical Decision Support

    Chao Lu & Yanwu Xu & Jingyu Wang (Baidu) & Dong Min (CAICT), China

4:30 PM

    <remote>

    Topic Group "Histopathology"

    Frederick Klauschen, Germany

    [German time: Wednesday, 10:30 AM]

4:50 PM

    <remote>

    Topic Group "Snakebite and snake identification"

    Rafael Ruiz de Castaneda, Switzerland

    [Swiss time: Wednesday, 10:50 AM]

5:10 PM

    <remote>

    Topic Group "Psychiatry"

    Nicolas Langer, Switzerland

    [Swiss time: Wednesday, 11:10 AM]

 5:30 PM

    End of day 1

***Thursday, 4 April 2019***

9:30 AM

    <remote>

    Topic Group "Ophthalmology (retinal imaging diagnostics)"

    & Update on Adhoc Group on "Test Data Set Assessment"

    Arun Shroff, USA

    [New York City time: Wednesday (!), 3 Apr, 9:30 pm]

 9:55 AM

    <on site>

    D-023: Suggested Draft Terms of Reference for Working Group on Public and Global Health Considerations

    Dr. Monique Kuglitsch (Fraunhofer HHI), Germany

10:20 AM

    <on site>

    D-012: Automatic Generation of Diagnostic Reports for PA Chest disease on Pneumothorax, Pleural Effusion, and Rib Fractures

    Shuyuan，Zhang & Fengbo，Xie (Wingspan Healthcare Group), China

10:45 AM

Coffee break

11:10 AM

    D-018: Automated Generation of Radiotherapy Treatment Plans using Reinforcement Learning

    Hu Yue & Joe Wu (BioMind China), China

11:35 AM

    <on site>

    D-015: AI-Based Mining and Testing Tool for Smart Health Device Vulnerability

    Kai Fu & Ziyi Yang & Chunxia Hu (CAICT), China

12:00 AM

    Lunch

 1:30 PM

    <on site>

    Topic Group "Tuberculosis"

    Manjula Singh, India

 1:50 PM

    <on site>

    D-016: Topic Group "Symptom assessment"

    Henry Hoffmann, Germany

2:10 PM

    <on site>

    Topic Group "Cardiovascular disease risk prediction"

    Benjamin Muthambi, USA

2:30 PM

    <on site>

    Topic Group "Neuro-cognitive diseases"

    Marc Lecoultre, Switzerland

    Topic Group "Autism" (Jongwoo Choi does not attend meeting)

2:50 PM

    <on site>

    D21: Proposal to add new contents into FGAI4H-C-103: FG-AI4H Data handling and data acceptance

    D22: Proposal to change the structure of FG-AI4H-C-105: TDD template

    Daidi Zhong (Chongqing University), China

3:30 PM

    Coffee break

4:00 PM

    <remote>

    Topic Group "Dermatology"

    Maria Vasconcelos, Portugal

    [Porto time: Thursday, 9 AM]

 4:10 PM

    <remote>

    Topic Group "Falls among the elderly"

    Inês Sousa, Portugal

[Porto time: Thursday, 9:10 AM]

4:20 PM

D-024: Proposal of an AI Quality Control system: InferRead CT Chest

5:05 PM

D-025: Proposal of an artificial intelligence research platform: InferScholar Center

5:30 PM

    Discussion about future work

6:00 PM

End of day 2

***Friday, 5 April 2019***

1. Continuation of unfinished discussions on contributions

2. Outcomes of the meeting

* Output documents
* New / extended Ad-hoc Groups
* Editing period for documents

3. Promotion and outreach

* Planned promotional activities
* Press communication

4. Schedule of future FG meetings, workshops and interim activities

5. Focus Group working methods overview

6. Demonstration of teleworking tools

7. Closing of the 4th Focus Group meeting

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