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| ITU Logo | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2017-2020 | | FG-AI4H-C-011 | |
| **ITU-T Focus Group on AI for Health** | |
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| **DOCUMENT** | | | | |
| **Source:** | | Marc Lecoultre (MLLab.ai) | | |
| **Title:** | | Artificial Intelligence thematic classification | | |
| **Purpose:** | | Discussion | | |
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| **Abstract:** | This document suggests an Artificial Intelligence thematic classification to be used for level 2 in document [FG-AI4H-B-004](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-B-004.docx) |

1. **Machine Learning**
   1. Classification
   2. Regression
   3. Clustering
   4. Recommendation systems
   5. Matching
   6. Sequential data models
   7. Anomaly detection
2. **Optimization**
   1. Automated planning & scheduling
   2. Evolutionary algorithms
3. **Knowledge representation and reasoning**
   1. Default reasoning
   2. Common-sense knowledge
   3. Ontological engineering
   4. Sub-symbolic reasoning
4. **Artificial Intelligence**
   1. Generative models
   2. Autonomous systems
   3. Distributed systems
5. **Perception**
   1. Visual recognition (photo/video)
   2. Natural Language Processing (text/voice)
6. **Affective computing**
   1. Sentiment analysis
   2. Virtual assistants
   3. Social agents
7. **Motion and manipulation (robotics)**
   1. Robotic arms
   2. Industrial robots
   3. Motion planning
8. **General intelligence**

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