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Intelligent Machine-Human Teaming

This call is for novel technologies that enable us to build intelligent machines with cognitive abilities such as machine understanding and symbolic/logical reasoning, self-learning and ability to adapt and perform myriad tasks in a dynamic environment. Such machines collaborate with humans, at a peer-to-peer level, on decision-making tasks. This is unlike the passive systems today which require detailed guidance from humans.

This call is for novel approaches and technologies, not limiting to visual, audio and tactile means, that can facilitate effective communication and understanding between human and systems or robots (e.g. UGV) to jointly complete a task.