

53rd IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) –  
The Next Steps (A4)  
Interactive Presentations - 53rd IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL  
INTELLIGENCE (SETI) – The Next Steps (IP)

Author: Ms. Samiksha Raviraja  
University of Leicester, United Kingdom

Mr. Zygimantas Vainauskas  
University of Leicester, United Kingdom  
Ms. Fiona Poda  
University of Leicester, United Kingdom

RAPID ALIEN LANGUAGE CATEGORIZATION - FRAMEWORK FOR THE TIME-SENSITIVE  
INTERPRETATION OF ALIEN COMMUNICATION FOR INTELLIGENT ALIEN LIFE TO  
PREVENT DESTRUCTION TO EITHER SPECIES

**Abstract**

One of the most important abilities in intelligent-species is the ability to communicate. This paper proposes steps to take when and if aliens came in contact with humans, and how humans would communicate with them. The situation would be a time-sensitive scenario, meaning that communication is of the utmost importance, if such an event were to happen. First, humans would need to establish mutual peace by conveying that there is no threat to the alien race. Second, the aliens would need to acknowledge this understanding and reciprocate. This would be extremely difficult to do regardless of their intelligence level unless they are very human-like and have similarities to our way of communicating. The first step towards understanding their mind is to analyze their level of intelligence - Level 1-Low intelligence, Level 2-Human-like intelligence or Level 3-Advanced or High Intelligence. These three levels go hand in hand with the Kardashev scale. Further, the Barrow scale will also be used to categorize alien species in hopes of developing a common universal language to communicate in. This paper research delves into the level of intelligence being used toward achieving communication with aliens by predicting various possible scenarios and outcomes by proposing an intensive categorization system. This can be achieved by studying their Emotional and Intelligence Quotient. The limitations and capabilities of their intelligence must also be studied. By observing how they respond and react (expressions and senses) to different kinds of scenarios, items and people, the data will help enable good categorisation. It can be hypothesised that the more human-like aliens are, or can relate to humans, the more likely it is that communication is possible. Depending on the situation, either humans can teach aliens a human language, or humans can learn an alien language, or both the races work together to develop a mutual understanding or mode of communication. There are three possible ways of contact. Aliens visit Earth, or humans discover aliens on space exploration, or through technology. A much rarer case would be humans and aliens, both running into each other during a space expedition parallelly. The first two possibilities allow a more in-depth analysis of the alien life and enhanced results compared. The importance of finding a method of talking with aliens is important in order to not only protect Earth and humans but rather for the advancement of Science through the shared knowledge between the two species.