

【Abstract of 2009 Grant – in – Aid for Scientific Research on Innovative Areas  
(Research in a proposed research area)】

<b>Title of project</b>	The study on the neural dynamics for understanding communication in terms of complex hetero systems
<b>Head Investigator Name</b>	TSUDA Ichiro, Hokkaido University, Research Institute for Electronic Science, Professor
<b>Abstract of Research Project</b>	The purpose of this research project is to establish a new research area on the neural information science for communication by elucidating the neural mechanism of communication. The research is performed in collaboration with applied mathematicians in complex systems science and experimental researchers in neuroscience. The project includes the measurements of brain activity during communication with or without languages and analyses with a help of a theory in extended dynamical systems and of a probabilistic theory. The communication paradigm is extended to the interactions between human and human, human and animal, human and robot, human and materials, and even robot and robot.
<b>Term of Project: 2009–2013</b>	