**Applied Psychology Seminar:**
*Human-Robot Interaction*

M1308.001100–001 (co-class with 132.601-003)
Seoul National University, Fall 2019

Instructor: Dr. Sowon Hahn  
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Class Time: Thursday 2:00-5:00PM  
Class Location: Building 16-M315

**Course Description:** Human-Robot Interaction is a field of study dedicated to understanding, designing, and evaluating robotics system used by humans. The field of Human-Robot Interaction (HRI) is rapidly expanding mostly in the technical disciplines such as mechanical and electrical engineering, computer science, and artificial intelligence. In this class, we will review papers that represent psychology / cognitive science perspectives of HRI in addition to those technical disciplines.

**Class Discussion:** Before each class, all students are expected to read assigned articles, write a short reaction paper (1-2 pages), and upload it to ETL (due by midnight the day before the class). Each student will select TWO articles throughout the semester to lead class discussion. A discussion leader is expected to prepare a presentation (15min) on the chosen article and review other students’ reaction paper to plan the class discussion. All students are expected to participate in class discussion actively. Grading will be based on reaction papers (20%), two presentations (20%), class participation (30%) and final project (30%).

**Final Project:** Each student will choose a topic of his/her choice and write a research proposal. It will be most useful if you select the topic that can be applied for your research area. We will use the last class for final project presentations. (Depending on the number of students, we may choose to do poster presentations.) Students will also submit a written report by the end of the semester.

**Tentative Schedule:**

**Sep 5: Humans vs Machines**
- The Most Human Human: What Artificial Intelligence Teaches Us About Being Alive (by Brian Christian) [https://www.youtube.com/watch?v=8Zs-GQ-ECLs](https://www.youtube.com/watch?v=8Zs-GQ-ECLs)

**Sep 12: National Holiday. No Class**

**Sep 19: Current Issues in HRI**


Sep 26: Embodied Cognition


Wilson, A. D., & Golonka, S. (2013). Embodied cognition is not what you think it is. Frontiers in psychology, 4, 58.


Oct 3: National Holiday. No Class

Oct 10: Humanoid robots


Oct 17: Robots for Therapy and Education


Oct 24: Rescue and Search Robots


Oct 31: Healthcare Robots


**Nov 7: Design Issues**


**Nov 14: No Class**

**Nov 21: Human Robot Collaboration**


**Nov 28: Technology and Society**


**Dec 5: Final Project Presentations**

**Dec 12: Final Project Presentations**