

Robotics in Africa Forum at IROS 2024



16th October 2024

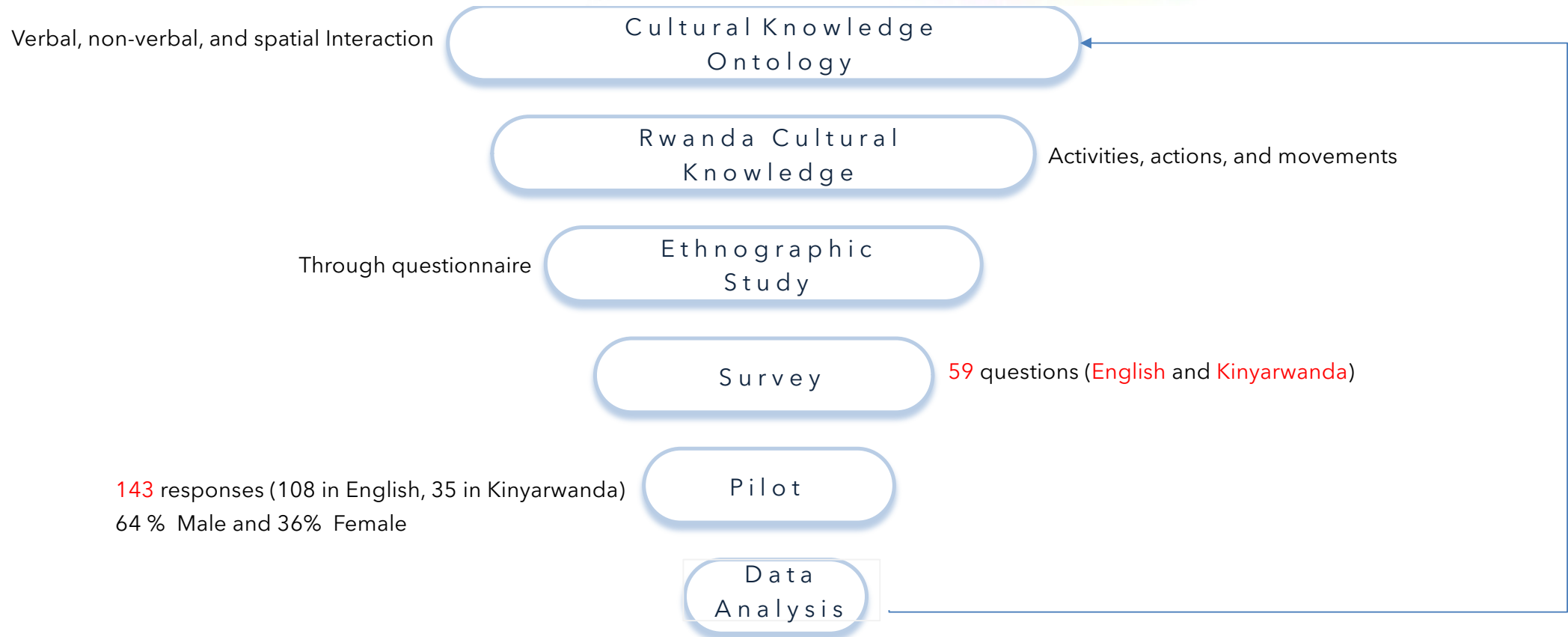
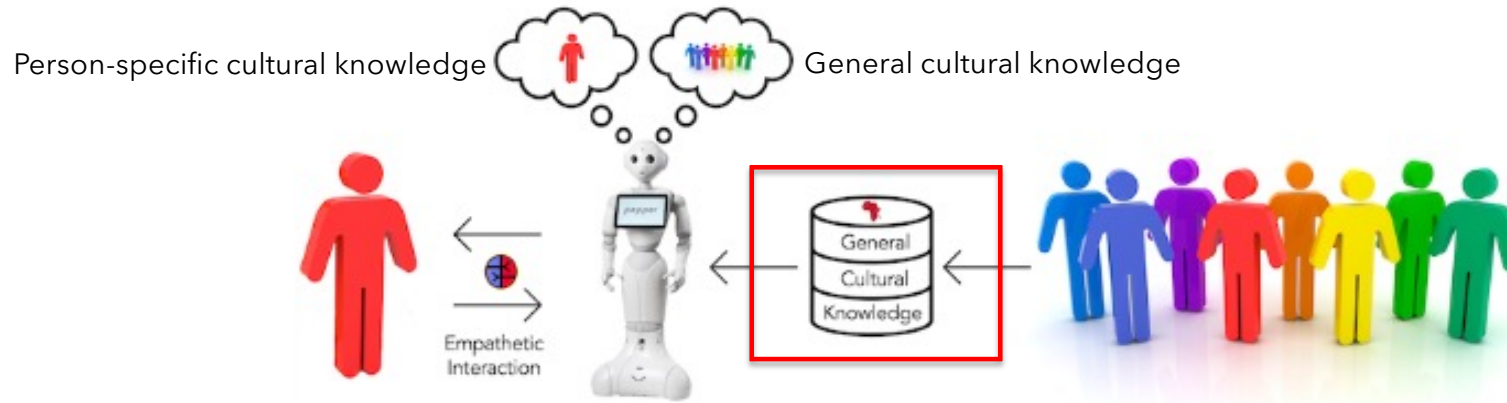
Rwandan Culture Survey for Culturally-Sensitive Social Robotics for Africa

Eyerusalem Birhan & David Vernon

Carnegie Mellon University Africa

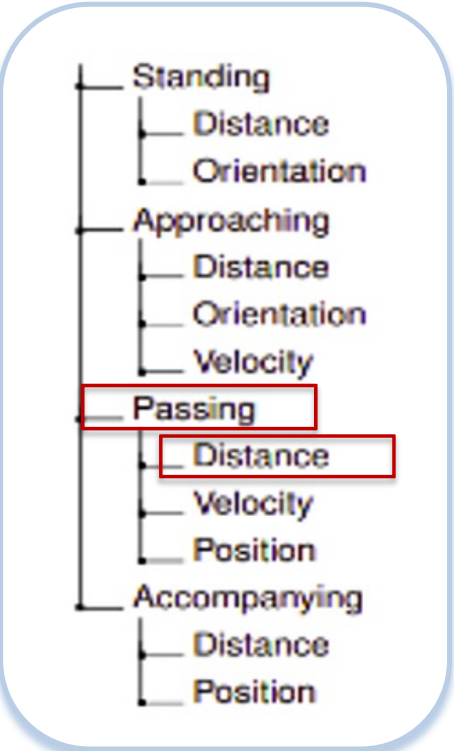
www.africa.engineering.cmu.edu



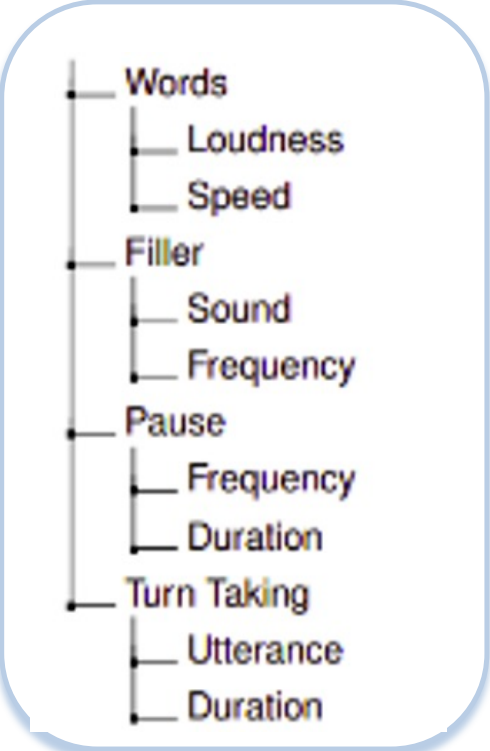


Cultural Knowledge Ontology

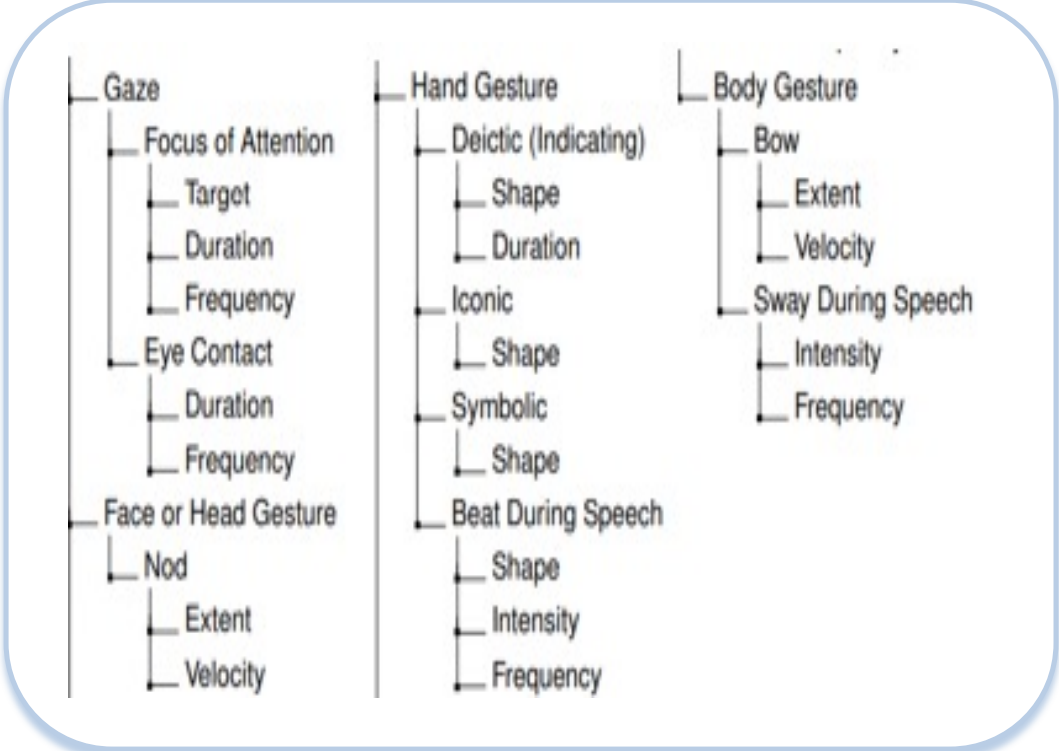
Spatial Interaction



Verbal Interaction



Non-verbal Interaction



e.g., What distance should you keep when passing someone?

Status: Representation of cultural knowledge following Bruno et al. (2019)

B. Bruno, C. T. Recchiuto, I. Papadopoulos, A. Saffiotti, C. Koulouglioti, R. Menicatti, F. Mastrogiovanni, R. Zaccaria, and A. Sgorbissa. Knowledge representation for culturally competent personal robots: requirements, design principles, implementation, and assessment. *International Journal of Social Robotics*, 11(3):515-538, 2019.