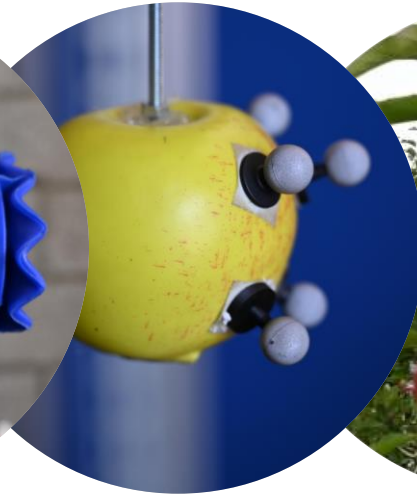


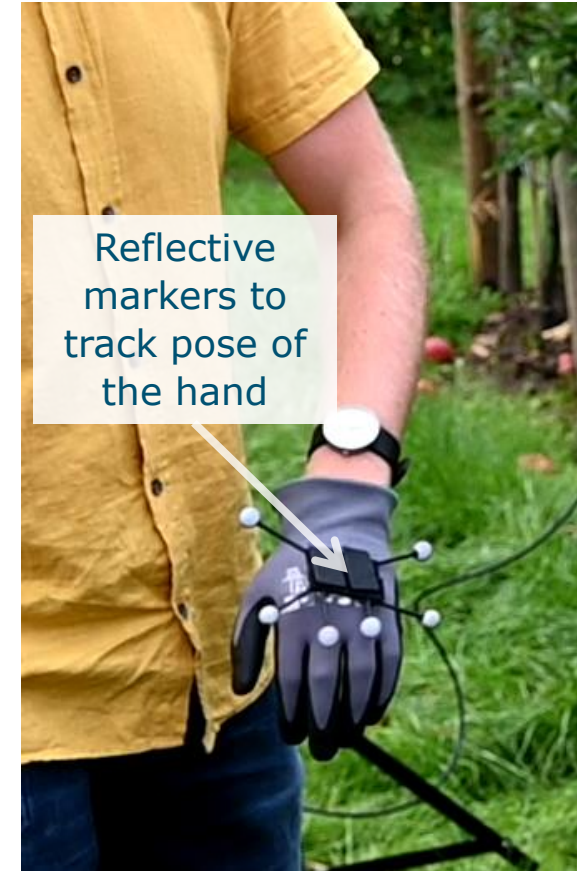
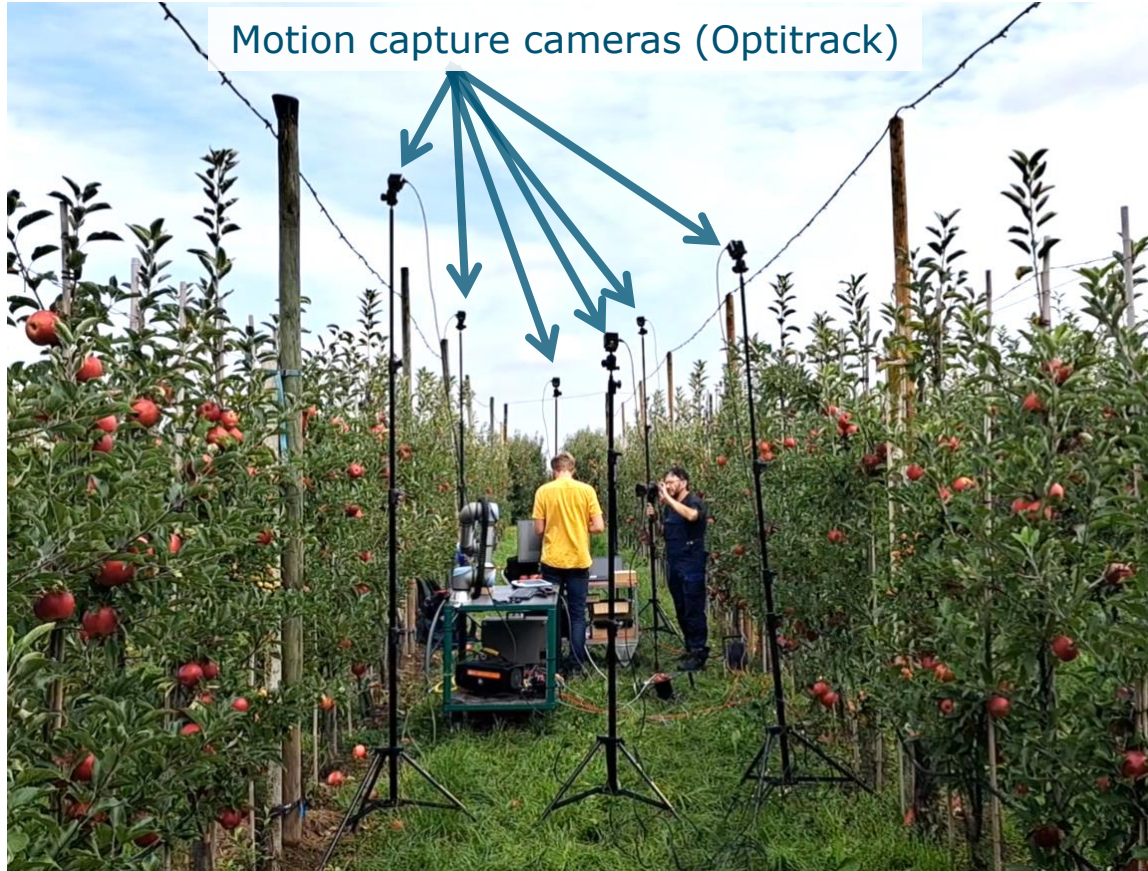
# Learning from Demonstration in the orchard: Harvesting apples & pears

Robert van de Ven

20 November 2025



# Motion capture system for collecting demo data





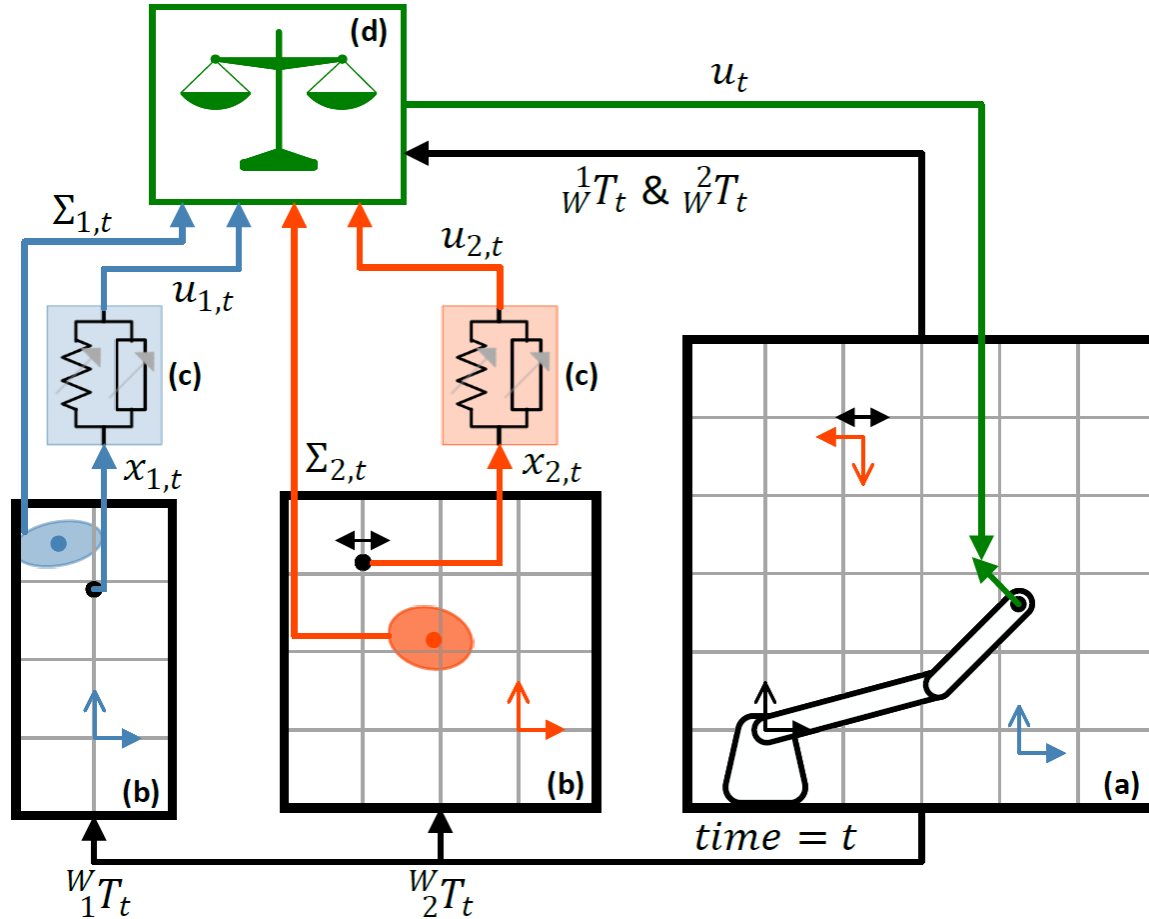
# Demonstrations using teleoperation



# LfD-method: DualLQR

Balance the requirements through a Dual **Linear Quadratic Regulator (LQR)**

LQR is running in two separate reference frames (start position and end position).





# Reproduction - harvest apples





# Different learned motion to pick pears



# Learning from Demonstration in the orchard: Harvesting apples & pears

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more!

