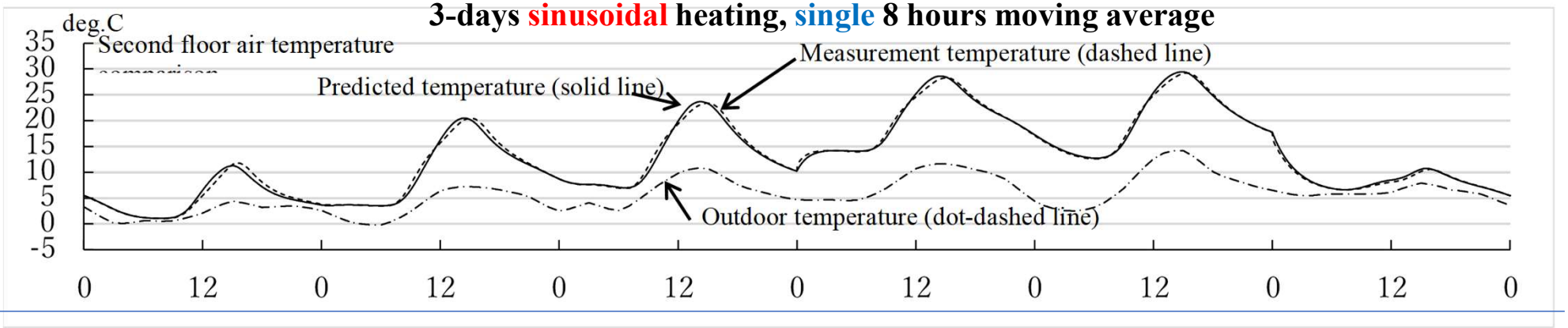
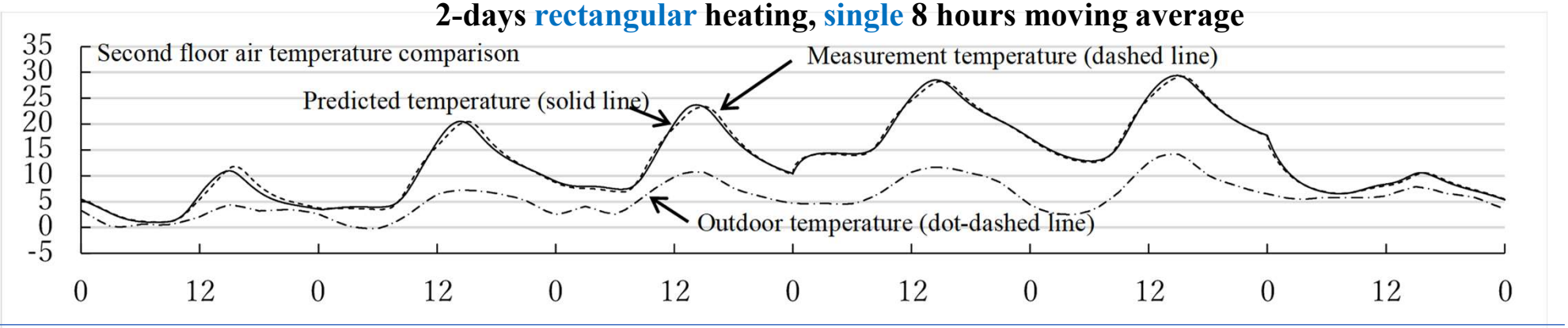
Comparison of predicted room temperature using a system identified model and simulated measurement room temperature

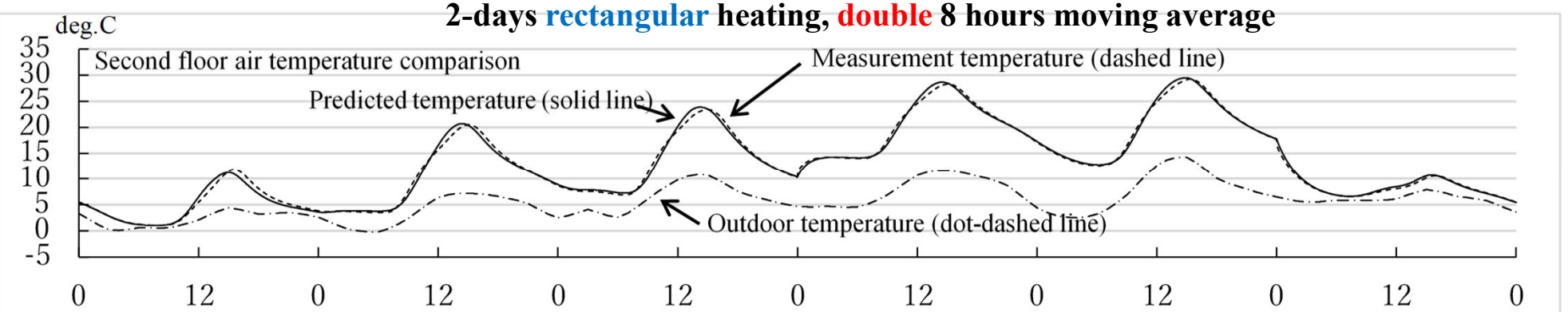
3-days sinusoidal heating, single 8 hours moving average



2-days rectangular heating, single 8 hours moving average



2-days rectangular heating, double 8 hours moving average



The differences from the simulated measurement room temperature change are small. From the accuracy comparison of U values in the previous slide, we can conclude that the system identification accuracy is improved by double moving average even with the square waveform heating.