

Additional Control Systems MSc project from CAHA:

Minimum reconnection time for a sustainable island

Project code #: CAHA5

This project is aimed at finding the optimal disconnection and reconnection conditions for a sustainable island in power systems. It starts by finding the conditions that determine the sustainability of an island (dynamics of the system). Next, it assumes that an island is sustainable but it is desirable to reconnect it to the main grid. Under these circumstances, what is the optimal control strategy to minimise the synchronisation time between the main grid and the island?