Econ7115: Structural Models and Numerical Methods in Economics
Assignment W9

March 18, 2025

Due 23 April 2025
Zi Wang
HKBU
Spring 2025

---

1. The attached database, CASIF_98_07, comprises input and output variables for Chinese manufacturing firms spanning the years 1998 to 2007. You are requested to use this dataset to estimate firm-level productivities by employing the following methodologies: (i) the Olley-Pakes (OP) method, (ii) the Levinsohn-Petrin (LP) method, and (iii) the Ackerberg-Caves-Frazer (ACF) method. Please develop your own code to implement these estimations and subsequently compare your results with those obtained from the existing Stata packages for productivity estimation.