A Fine-grained Fuzzy-PID Controller-guided Latent Factor Model for High-Dimensional Incomplete Data Representation: Supplementary File

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I. Introduction

THIS is the supplementary file for paper entitled *"A Fine-grained Fuzzy-PID Controller-guided Latent Factor Model for High-Dimensional Incomplete Data Representation"*. It provides Table S1 for hyperparameter settings of each competitor.

II. Supplementary Hyperparameter Settings

TABLE S1
HYPERPARAMETER SETTINGS FOR COMPETITORS

Abbr.	**M2**	**M3**	**M4**	**M5**	**M6**	**M7**	**M8**	**M9**	**M10**
D1	γ=2e-2, λ=7e-1, K_P=5e-1, K_I=5e-4, K_D=5e-4	γ=2e-2, λ=7e-1, K_P=5e-5, K_D=5e-5	γ=2e-2, λ=7e-1	γ=9e-4, λ=9e-1, β=9e-1	γ=9e-4, λ=9e-1, β=9e-1	γ=9e-1, λ=8e-1, ϵ=1e-8	γ=8e-3, λ=7e-1, β=9e-1, ϵ=1e-8	γ=3e-2, λ=9e-1, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8	γ=5e-2, λ=8e-1, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8
D2	γ=3e-2, λ=4e-2, K_P=5e-1, K_I=5e-4, K_D=5e-2	γ=3e-2, λ=4e-2, K_P=5e-5, K_D=5e-3	γ=3e-2, λ=4e-2	γ=3e-3, λ=4e-2, β=9e-1	γ=3e-3, λ=4e-2, β=9e-1	γ=8e-2, λ=4e-2, ϵ=1e-8	γ=1e-3, λ=4e-2, β=9e-1, ϵ=1e-8	γ=9e-3, λ=7e-2, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8	γ=6e-3, λ=4e-2, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8
D3	γ=8e-3, λ=3e-1, K_P=5e-1, K_I=5e-4, K_D=5e-4	γ=8e-3, λ=3e-1, K_P=5e-4, K_D=5e-4	γ=8e-3, λ=3e-1	γ=9e-4, λ=3e-1, β=9e-1	γ=9e-4, λ=3e-1, β=9e-1	γ=1e-1, λ=3e-1, ϵ=1e-8	γ=4e-3, λ=4e-2, β=9e-1, ϵ=1e-8	γ=7e-3, λ=3e-1, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8	γ=9e-3, λ=3e-1, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8
D4	γ=2e-2, λ=9e-2, K_P=5e-1, K_I=5e-4, K_D=5e-1	γ=2e-2, λ=9e-2, K_P=5e-4, K_D=5e-4	γ=2e-2, λ=9e-2	γ=2e-3, λ=9e-2, β=9e-1	γ=2e-3, λ=9e-2, β=9e-1	γ=5e-2, λ=3e-1, ϵ=1e-8	γ=5e-3, λ=2e-1, β=9e-1, ϵ=1e-8	γ=8e-3, λ=3e-1, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8	γ=8e-3, λ=3e-1, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8
D5	γ=2e-2, λ=8e-1, K_P=5e-1, K_I=5e-4, K_D=5e-1	γ=2e-2, λ=8e-1, K_P=5e-4, K_D=5e-4	γ=2e-2, λ=8e-1	γ=9e-4, λ=9e-1, β=9e-1	γ=9e-4, λ=9e-1, β=9e-1	γ=4e-1, λ=6e-1, ϵ=1e-8	γ=9e-3, λ=8e-1, β=9e-1, ϵ=1e-8	γ=2e-2, λ=9e-1, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8	γ=4e-2, λ=9e-1, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8
D6	γ=8e-3, λ=5e-2, K_P=5e-1, K_I=5e-3, K_D=5e-5	γ=8e-3, λ=5e-2, K_P=5e-5, K_D=5e-4	γ=8e-3, λ=5e-2	γ=5e-4, λ=9e-2, β=9e-1	γ=9e-4, λ=6e-2, β=9e-1	γ=3e-2, λ=1e-2, ϵ=1e-8	γ=9e-4, λ=6e-2, β=9e-1, ϵ=1e-8	γ=8e-3, λ=5e-2, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8	γ=9e-3, λ=6e-2, β_1=9e-1, β_2=9.99e-1, ϵ=1e-8