

APPENDIX-C SUMMARY OF CODE DEVELOPED

1. Multirate output feedback based DSMC

dcmrof.m	Code position control of dc motor system
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2. Real time signal generation from MATLAB Simulink model

pgen.slx	PWM signal generation of 6.9% duty cycle
Pgen1.slx	PWM signal generation of 25.2% duty cycle
Pgen2.slx	PWM signal generation of 50.2% duty cycle
Pgen3.slx	PWM signal generation of 75.2% duty cycle
Pgen4.slx	PWM signal generation of 93.6% duty cycle

3. Controller design

Smcim.slx	SM controller for induction motor
Piim.slx	PI controller for induction motor
msmc.slx	MSMC controller for induction motor
Immsmc.slx	Close loop msmc for induction motor
Fuzzyimmsmc.slx	Fuzzy msmc controller of induction motor
Gafuzzyimmsmc.slx	GA msmc controller of induction motor

4. PWM & SPWM MATLAB- Simulink models

pwmim.six	PWM based VSI fed induction motor drive
spwmim.slx	SPWM based VSI fed induction motor drive

5. Real time code generation MATLAB-Simulink models

rpwmim.slx	Real time pwm based code generation
rspwmim.slx	Real time spwm based code generation
Rsmcspwim.slx	Smc based code generation
Hilmsmcim.slx	Hardware in loop based code generation