emgr

Empirical Gramian Framework

SUC	Model Reduction:			System Identification:		
Applications	State Reduction		n	Decentralized Control		
	Parameter Reduction			Sensitivity Analysis		
Ap	Combined	tion	Parameter Identification			
Systems	Parametrized First Order Linear Control Systems					
w	W _c Empirical Controllability Gramian					
Gramian Types	W o Empirical Obse		mpirical Observa	ervability Gramian		
_ 	W _x Empirical C		mpirical Cross Gr	oss Gramian		
E E	W _s Empirical S		mpirical Sensitivi	ty Gramiar	1	
Gra		mpirical Identifia	bility Gram	nian		
	W 」 Empirical Joint Gramian					
Reduction	State Reduction: Parar		Parameter Re	duction:	Combined Reduction:	
	$W_C + W_O$		Ws		NA/	
	Wx		W_{l}		L M	
Identification	Decentralized Control: Paramet		<u>Parameter Id</u>	ter Identification / Sensitivity Analysis:		
	$W_c + W_o$		Ws			
	W _X		W_1			
Ide			W_{J}			
Software	Multi-Core: Vectorized + Parallelizable					
	Compatibility: Octave + Matlab					
Sof	License: Op			pen Source	2	
Website	Download		Document	ation	Demos	
	>> http://gramian.de <<					