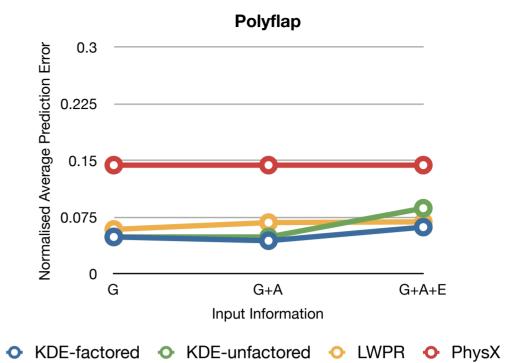
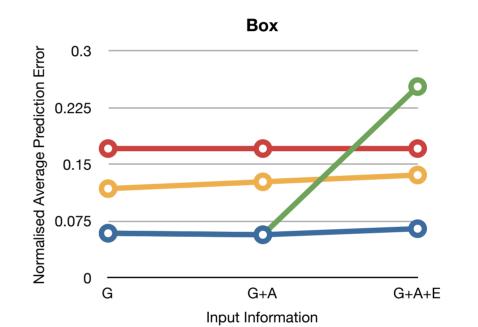
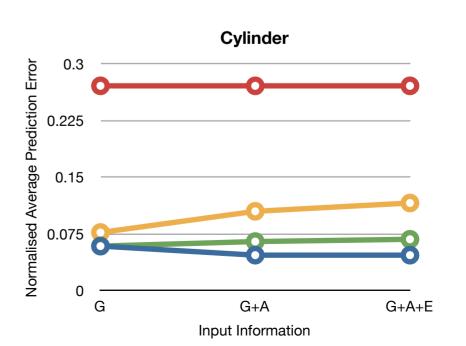
Experiment L1	Training and Testing on a single real object				
·	Ŭ	Polyflap			
	G	G+A	G+A+E		
KDE-factored	0.049		0.062		
KDE-unfactored	0.049				
LWPR	0.059		0.069		
PhysX	0.144	0.144	0.144		
, ,					
		Box			
	G	G+A	G+A+E		
KDE-factored	0.059	0.057	0.065		
KDE-unfactored	0.059	0.057	0.253		
LWPR	0.118	0.127	0.136		
PhysX	0.171	0.171	0.171		
		Cylinder			
	G	G+A	G+A+E		
KDE-factored	0.059	0.047	0.047		
KDE-unfactored	0.059	0.065	0.068		
LWPR	0.077	0.105	0.116		
PhysX	0.271	0.271	0.271		
		Polyflap			
	7	70	700		
KDE-factored-GA	0.110	0.063	0.044		
KDE-unfactored-GA	0.109	0.064	0.049		
LWPR	0.125	0.124	0.068		

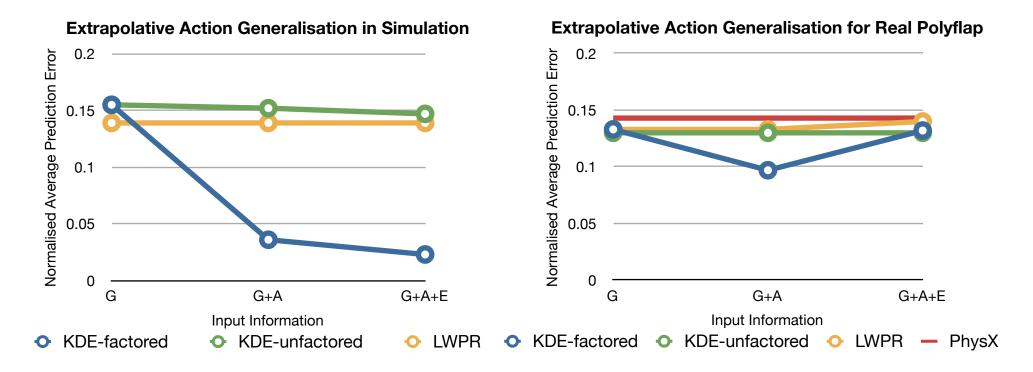




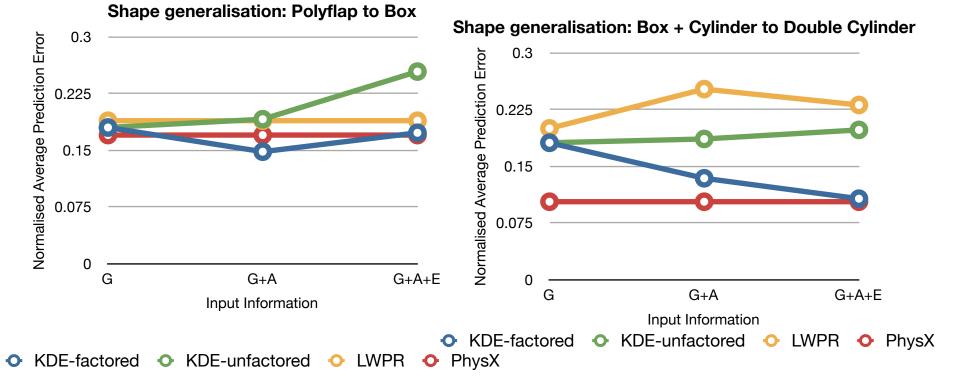


◆ KDE-factored ◆ KDE-unfactored ◆ LWPR ◆ PhysX

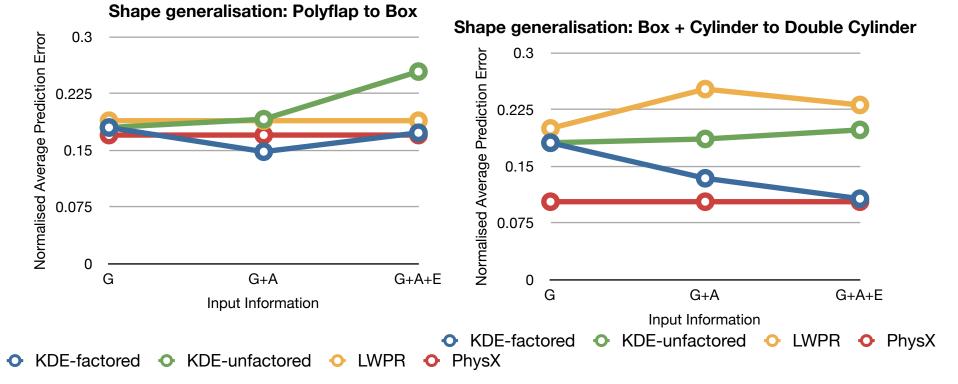
Experiment A	Training and Te	sting on a single			
		Simulated Polyflap			
	G	G+A	G+A+E		
KDE-factored	0.155	0.036	0.023		
KDE-unfactored	0.155	0.152	0.147		
LWPR	0.139	0.139	0.139		
		Real Polyflap			
	G	G+A	G+A+E		
KDE-factored	0.133	0.097	0.132		
KDE-unfactored	0.130	0.130	0.130		
LWPR	0.133	0.133	0.140		
PhysX	0.143	0.143	0.143		



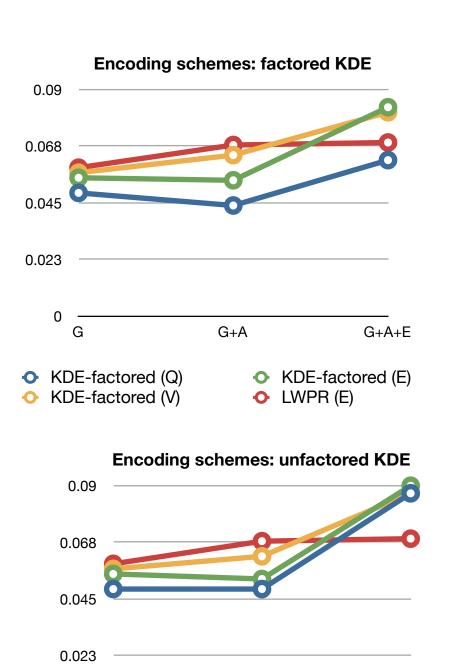
Experiment S1	Extrapolative S	hape Generalisa			
		Simulated Poly			
	G	G+A	G+A+E		
KDE-factored					
KDE-unfactored					
LWPR					
		Real Polyflap to			
	G	G+A	G+A+E		
KDE-factored	0.180				
KDE-unfactored	0.180				
LWPR	0.189				
PhysX	0.17	0.17	0.17		
Experiment S2	Extrapolative S	L hape Generalisa	tion		
	Simulated Cylinder and Box to Double Cylinder			ouble Cylinder	
	G	G+A	G+A+E		
KDE-factored	0.189	0.188	0.025		
KDE-unfactored	0.189	0.105	0.315		
LWPR	0.154	0.083	0.243		
		Real Cylinder a	nd Boy to Double	Cylinder	
	G	Real Cylinder and Box to Double Cylinder G G+A G+A+E		Cymru c i	
KDE-factored	0.181				
KDE-inclored	0.181				
LWPR	0.181				
PhysX	0.103				



Experiment S3	Interpolative Sh	ape Generalisat	ion		
		0 . 4	0.4.5		
LOPE ()	G	G+A	G+A+E		
KDE-factored					
KDE-unfactored					
LWPR					
	G	G+A	G+A+E		
KDE-factored	0.180	0.148	0.173		
KDE-unfactored	0.180	0.191	0.254		
LWPR	0.189	0.189	0.189		
PhysX	0.17	0.17	0.17		
Experiment S2	Extrapolative SI	nape Generalisa	tion		
·	Simulated Cylinder and Box to Double Cylinder				
	G	G+A	G+A+E		
KDE-factored	0.189	0.188	0.025		
KDE-unfactored	0.189	0.105	0.315		
LWPR	0.154	0.083	0.243		
		Dool Culinday o	ad Day to Dayble	Culinday	
	<u> </u>	Real Cylinder and Box to Double Cylinder G G+A G+A+E		Cyllilder	
VDC footaward					
KDE-factored	0.181	0.134			
KDE-unfactored	0.181	0.186			
LWPR	0.2				
PhysX	0.103	0.103	0.103		



Experiment L1	Training and Te				
	aiig and 10	Polyflap	. 50. 50,000		
	G	G+A	G+A+E		
KDE-factored (Q)	0.049				
KDE-factored (E)	0.055				
KDE-factored (V)	0.057				
LWPR (E)	0.059				
PhysX	0.144				
KDE-unfactored (Q)	0.049				
	0.049				
KDE-unfactored (E)	0.055				
KDE-unfactored (V)					
LWPR (E)	0.059				
PhysX	0.144	0.144	0.144		
		Day			
	C	Box	C . A . F		
KDE footored (0)	G 0.050	G+A	G+A+E		
KDE-factored (Q)	0.059				
KDE-unfactored (Q)	0.059				
LWPR (E)	0.118				
PhysX	0.171	0.171	0.171		
		Outline of a se			
	0	Cylinder	O . A . F		
KDE (+	G	G+A	G+A+E		
KDE-factored (Q)	0.059				
KDE-unfactored (Q)	0.059				
LWPR (E)	0.077				
PhysX	0.271	0.271	0.271		



G+A

G+A+E

KDE-unfactored (E)LWPR (E)

G

KDE-unfactored (Q)KDE-unfactored (V)