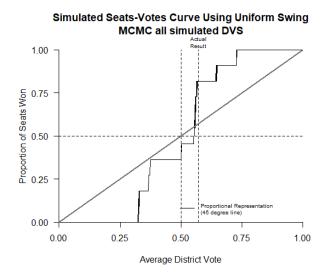
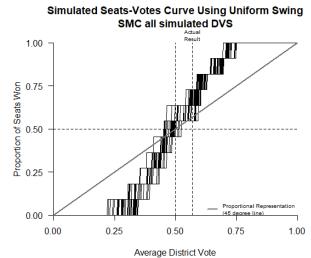
## Empirical Validation of Automated Redistricting Algorithms on the Virginia ${\rm House\ of\ Delegates\ District\ Map}$

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May 20th, 2021

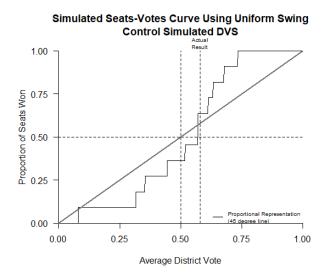
	alg	control	mcmc	smc
type	measure			
compact	ecc	0.777428	0.774128	0.816295
	fh	2.15416e + 21	1.66564e + 21	1.84849e + 21
	pp	0.185835	0.172610	0.165511
fair	dseats	7.00000	9.00000	7.28000
	bias	-0.136364	-0.136364	0.0436364
	dec	0.0406080	-0.485947	-0.0304248
	effgap	-0.00292268	-0.179412	-0.0170277
	effgapeqpop	-0.0220841	0.172966	0.0204446
	lopwin	0.0886207	0.000318324	0.0664807
	meanmed	0.0680291	0.0533195	-0.0159417
	resp	0.00000	9.09091	0.363636
	taugap	-1.14986	-0.0848905	-0.368612





(a) MCMC Seats-Votes Curve

(b) SMC Seats-Votes Curve



(c) Real Seats-Votes Curve

Figure 8
Seats Votes Curves