Extended Data Table 3|Correlation coefficient in Step2

	ρ_{x_ij}			ρ_{y_ij}		
	$i=1$	$i=2$	$i=3$	$i=1$	$i=2$	$i=3$
$j=1$	**1.0000**	**0.5249**	**-0.9114**	**1.0000**	**0.4038**	**-0.6807**
$j=2$	**0.5249**	**1.0000**	**-0.4465**	**0.4038**	**1.0000**	**-0.3141**
$j=3$	**-0.9114**	**-0.4465**	**1.0000**	**-0.6807**	**-0.3141**	**1.0000**

ρ_{x_ij} represent the "time-invariant-linear" correlation coefficient parameter of two design variables (Methods, Eq.(4)). Through the ECP Transformation, the design variable is converted from x to y. ρ_{y_ij} represents the correlation coefficients of the design variables after the ECP transformation(Methods, Eq. (6)).