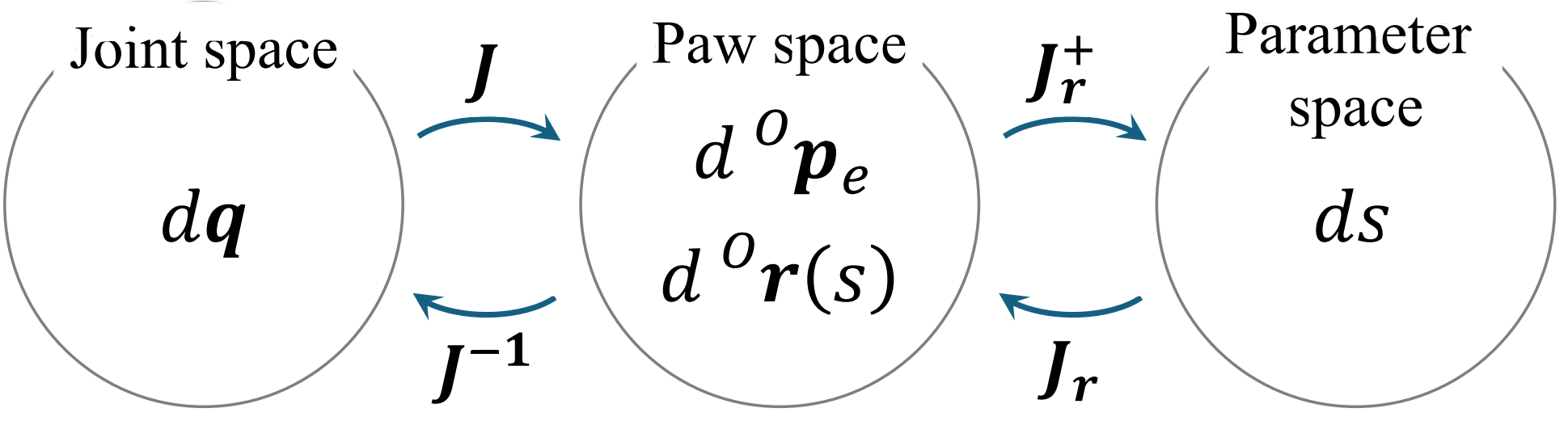
Joint space
$d\boldsymbol{q}$
$\boldsymbol{J}$
$\boldsymbol{J}^{-1}$
Paw space
$d\,{}^{O}\boldsymbol{p}_e$
$d\,{}^{O}\boldsymbol{r}(s)$
$\boldsymbol{J}_r^{+}$
$\boldsymbol{J}_r$
Parameter space
ds