abaisero.sty

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1 Commands

Option [math]

Symbol	Command	Description
$\mathbb{Z}$	\naturalset	the set of natural numbers
$\mathbb{R}$	\realset	the set of real numbers
*	\kstar	the Kleene star operator
$^+$	\kplus	the Kleene plus operator
sign	\sign	
softmax	\softmax	
softmin	\softmin	

Option [linalg]

Symbol	Command	Description
diag	\diag	
rank	\rank	
tr	\trace	
col	\colspace	
ker	\nullspace	Nullspace (a.k.a kernel) of a linear mapping
span	\spanspace	
$^\top$	\T	Transpose superscript
$^{-1}$	\I	Inverse superscript
$^+$	\PI	Pseudo-inverse superscript
$^{-\top}$	\IT	Inverse transpose superscript
$^{+\top}$	\PIT	Pseudo-inverse transpose superscript

Option [optim]

Symbol	Command	Description
argmax	\argmax	
argmin	\argmin	
*	\opt	Optimality superscript

Option [stats]

Symbol	Command	Description
$\mathbb{C}$	\Cov	Covariance
$\mathbb{H}$	\Ent	Entropy
$\mathbb{E}$	\Exp	Expectation
$\mathbb{I}$	\Ind	Indicator function
KL	\KL	KL-divergence
D_{KL}	\DKL	KL-divergence (alternative)
$\mathbb{I}$	\MI	Mutual Information
$\mathbb{V}$	\Var	Variance

Option [dists]

Symbol	Command	Description
Categorical	\Categorical	Categorical
Dirichlet	\Dirichlet	Dirichlet
Normal	\Normal	Normal
Uniform	\Uniform	Uniform

Option [ml]

Symbol	Command	Description
$\mathcal{D}$	\data	Data set
$\mathcal{L}$	\loss	Loss function
nll	\nll	Neg-log-likelihood
MSE	\mse	Mean-squared-error

Option [rl]

Symbol	Command	Description
$\mathcal{A}$	\aset	Action set
$\mathcal{B}$	\bset	Belief set
$\mathcal{H}$	\hset	History set
$\mathcal{O}$	\oset	Observation set
$\mathcal{R}$	\rset	Reward set
$\mathcal{S}$	\sset	State set
D	\dfn	Dynamics function
G	\gfn	Generative function
O	\ofn	Observation function
R	\rfn	Reward function
T	\tfn	Transition function
ε	\nohistory	Empty history
π	\policy	policy
Q^π	\qpolicy	Policy Q function
$\hat{Q}$	\qmodel	Parametric Q model
V^π	\vpolicy	Policy V function
$\hat{V}$	\vmodel	Parametric V model
U^π	\upolicy	Policy U function
$\hat{U}$	\umodel	Parametric U model

Option [misc]

Symbol	Command	Description
$^{(k)}$	\iter{k}	Superscript indicating iteration