abaisero.sty

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1 Commands

Option [math]

| Symbol | Command | Description |
|--|---|---|
| Z R * | \naturalset \realset \kstar \kplus | the set of natural numbers the set of real numbers the Kleene star operator the Kleene plus operator |
| $\begin{array}{c} \text{sign} \\ \text{softmax} \\ \text{softmin} \end{array}$ | \sign \softmax \softmin | |

Option [linalg]

| Symbol | Command | Description |
|-----------------------|----------------------------|--|
| diag | \diag | |
| rank | $\backslash \mathtt{rank}$ | |
| tr | $ackslash 	exttt{trace}$ | |
| col | ackslashcolspace | |
| ker | νll space | Nullspace (a.k.a kernel) of a linear mapping |
| span | \setminus spanspace | |
| Т | $\backslash \mathtt{T}$ | Transpose superscript |
| -1 | \I | Inverse superscript |
| + | \PI | Pseudo-inverse superscript |
| - T | \IT | Inverse transpose superscript |
| +T | \PIT | Pseudo-inverse transpose superscript |

Option [optim]

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

Option [stats]

| Symbol | Command | Description |
|-------------------|--------------------------|-----------------------------|
| \mathbb{C} | \Cov | Covariance |
| \mathbb{H} | Ent | Entropy |
| $\mathbb E$ | Exp | Expectation |
| ${\mathbb I}$ | $\setminus \mathtt{Ind}$ | indicator function |
| KL | $\backslash \mathtt{KL}$ | KL-divergence |
| $\mathrm{D_{KL}}$ | $\backslash DKL$ | KL-divergence (alternative) |
| \mathbb{I} | \MI | Mutual Information |
| \mathbb{V} | $ackslash 	exttt{Var}$ | Variance |

Option [dists]

| Symbol | Command | Description |
|-------------|-----------------------------------|-------------|
| Categorical | $\backslash \texttt{Categorical}$ | Categorical |
| Dirichlet | $\backslash 	exttt{Dirichlet}$ | Dirichlet |
| Normal | $\backslash \mathtt{Normal}$ | Normal |
| Uniform | $\backslash \mathtt{Uniform}$ | Uniform |

Option [ml]

| Symbol | Command | Description |
|------------|---------------------------|--------------------|
| ${\cal D}$ | $ackslash 	exttt{data}$ | Data set |
| ${\cal L}$ | loss | Loss function |
| nll | \nl1 | Neg-log-likelihood |
| MSE | $\backslash \mathtt{mse}$ | Mean-squared-error |

Option [rl]

| Symbol | Command | Description |
|---------------|---------------------------|----------------------|
| \mathcal{A} | \aset | Action set |
| ${\cal B}$ | bset | Belief set |
| ${\cal H}$ | ackslashhset | History set |
| \mathcal{O} | \setminus oset | Observation set |
| ${\cal R}$ | $ackslash 	ext{rset}$ | Reward set |
| ${\cal S}$ | \sset | State set |
| D | $\backslash 	exttt{dfn}$ | Dynamics function |
| G | $\backslash 	exttt{gfn}$ | Generative function |
| O | $\setminus \mathtt{ofn}$ | Observation function |
| \mathbf{R} | $ackslash 	ext{rfn}$ | Reward function |
| ${ m T}$ | $\backslash \mathtt{tfn}$ | Transition function |

Option [misc]

| Symbol | Command | Description |
|--------|--|----------------------------------|
| (k) | $\operatorname{\mathtt{iter}}\{\mathtt{k}\}$ | Superscript indicating iteration |