bootstrapping/agents	$Agents \ and \ tasks$	
\agSp	Agents	
\agSpYU	$Agents(\mathcal{Y};\mathcal{U})$	All agents with given formats.
\agA	\mathcal{A}	An agent
\agExp	expl	Agent's exploration phase
\agLearn	learn	Agent's learning phase
\agAct	act	Agent's action phase
\agAexp	$expl_{\mathcal{A}}$	Exploration phase for agent A .
\agAact	$act_\mathcal{A}$	Action phase for agent \mathcal{A} .
\agAwtor	$WtoR_\mathcal{A}$	Map from the world to the result for the agent A .
\agAwtob	$WtoB_\mathcal{A}$	
\agAintermediate	$intermediate_\mathcal{A}$	
\agSucAG	$\operatorname{success}_{A}^{\mathcal{G}}$	Success set for the agent \mathcal{A} and goal \mathcal{G} .
\agRep	m	Agent representation
\agRepSp	\mathfrak{M}	Agent's model space
\agNuis		rigent's model space
	$G_{\mathcal{A}}$	Complement of $G_{\mathcal{A}}$.
\agNuisComp	$G_{\mathcal{A}}$	Complement of G_A .
\agNuisObs	$G_{\mathcal{A}}^{\mathcal{A}}$	
\agNuisCmd	$G_{\mathcal{A}}^{\mathcal{A}}$	
\agbbClass	$C_{\mathcal{A}}$	
\agbbClCore	$egin{array}{c} \mathrm{G}_{\mathcal{A}} \ \mathrm{G}_{\mathcal{A}}^{orall} \ \mathrm{G}_{\mathcal{A}}^{orall} \ \mathrm{G}_{\mathcal{A}}^{orall} \ C_{\mathcal{A}} \ C_{\mathcal{G}}^{0} \ \mathcal{G}_{\mathcal{G}}^{0} \end{array}$	
/ 200003	G	The agent's goal (a subset of StocProcesses($\mathcal{Y} \times \mathcal{U}$))
\agGoal articles		
articles articles/bds	BDS report	
articles articles/bds \BDSnk	$BDS\ report$ $BDS(n;k)$	
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\Tucov \Tucove	Q Q	Covariance of y . Covariance of y .
\discInt	T	Discretization interval
\nearavg	$\frac{1}{\mu}$	Average nearness
/Hearavg	μ	Average mearness
articles/bgds	$BGDS\ report$	
bgds	$_{ m BGDS}$	Bilinear gradient dynamics system
\BGDS	$_{\mathrm{BGDS}}$	
\bgCmd	$\boldsymbol{u}_{_}$	commands
\bgCmdH	$\boldsymbol{u}^{\mathbb{T}}$	commands history
\bgCmdSp	\mathfrak{U}	commands space
\bgWorld	W	World
\bgWorldSp	\mathcal{W}	World space
		$W \in \mathcal{D}(\mathbb{T}, \mathcal{U}, \mathcal{Y})$
		<pre>\$\bgWorld \in \bgRSSp(\bgTime, \bgCmdSp,</pre>
		\bgObsSp)\$
\bgAgent	agent	Agent
\bgAgentEx	learn	Agent exploration
\bgAgentAc	act	Agent action
\bgAgentRep	r	Agent representation
\bgAgentRepSp	$\mathcal R$	Agent representation space
\bgAgentSp	Agents	Agent action
\bgCmdTr	=	Transformation of the commands
\bgCmdTrSp	$oldsymbol{g}^{\mathcal{U}}$	Transformation of the commands
\bgObsTr	$\overset{ m G}{h}$	Transformation of the observations
\bg0bs11 \bg0bsTrSp	$G^{\mathcal{Y}}$	Transformation of the observations
, 0	-	Chaung of gampling an anations
\bgSamplingGroup	Sampling Calib	Groups of sampling operations
\bgCalibration		Calibration operation
\bgBDSagent	A_{BDS}	The BDS agent
\bgBGDSagent	A_{BGDS}	The BGDS agent
\bgPopCode	рор	Popoulation code
\bgRankCode	rankcode	Rank code
\bgRangeFamily	RF	Family of range-finders models
\bgFields	C	
\bgCmdConstraints	$\Omega_{m{u}}$	
\bgPopK	ψ	
articles/bgds/old	$BGDS\ report$	
\state	x	Generic underlying state.
\stateSp	$\boldsymbol{\mathfrak{X}}$	Generic underlying state space.
\detecte	d	Detector
$\sum_{i=1}^{n} sin sin sin sin sin sin sin sin sin sin$		Quantity with mean normalized.
\dist	σ	Distance to obstacle
\distn	σ^*	Distance to obstacle, mean normalized.
rfnl	eta	Nonlinear function in range-finder tensors.
near	$\overset{'}{\mu}$	Nearness
\lum	$\overset{'}{y}$	Luminance
\lumn	y^*	Luminance, mean normalized
\sptran	ℓ	Sensor pose (translation)
\sprot	$\ell_{ heta}$	Sensor pose (rotation)
\slvel	v^s	Sensor linear velocity (when off axis)
•		* \ /

\ 7	s	C 1 1 '/ (1
\savel	ω^s	Sensor angular velocity (when off axis)
\TX	X	Generic metric
\TXe	X	Generic metric
\0S	S	$S = s \times \nabla$
convf	f_*	Indicates the convolution with a kernel f .
\my	m	Metric on the tangent space of $y(s)$.
$\{ip\{\dots\}$		
\bgBGDSfamily	BGDS	Family of BGDS sensors
\BGDSsk	$BGDS(\mathcal{S};k)$	
\focal	F	Pinhole camera focal length.
\traindist	$p_{ m T}$	Training distribution.
\trainsym	$Sym(p_{\mathrm{T}})$	Symmetry group of $p_{\rm T}$.
	3 (2 - /	V V U I I I
articles/bgds/logical	Gradient dynamics	
\obslsp	Z	Observation logical space
\obsl	z	Observations in logical space
obsle	z	Observation logical space element
xtos	arphi	Mapping between S and Z .
\jac	Ĵ	Jacobian of φ
\jace	Ĵ	An element of the Jacobian of φ .
\mz	μ	Metric on the tangent space of $z(x)$.
\mmu	$\stackrel{ ho}{M}$	Metric for the commands u .
\mmc	171	Wester for the comments w.
articles/bgds/logical/grads	Gradient dynamics	
\Tzgd	L	z gradient dynamics
\Tzgde	L	z gradient dynamics (element)
\Tzgl	M	z gradient learned tensor
\Tzgle	М	z gradient learned tensor (element)
Tzgcov	S	z gradient covariance
\Tzgcove	S	z gradient covariance (element)
\Tzad	Ē	Affine part of dynamics.
\Tzade	Ē	Affine part of dynamics (element)
\Tzal	F	Learned affine part of dynamics.
\Tzale	F	Learned affine part of dynamics (element)
/12a1e	•	Ecarned aimic part of dynamics (cicinent)
articles/bgds/tensors	$BGDS\ report$	
Tygd	G	y gradient dynamics
Tygde	G	y gradient dynamics (element)
\Tygl	Н	y gradient learned tensor
\Tygle	Н	y gradient learned tensor (element)
Tygcov	R	y gradient covariance
\Tygcove	R	y gradient covariance (element)
\Tyad	В	Affine part of dynamics.
\Tyade	В	Affine part of dynamics (element)
\Tyal	C	Learned affine part of dynamics.
\Tyale	C	Learned affine part of dynamics (element)
/13 are		Dearned aimic part of dynamics (ciement)
articles/bgds/models/deprecated	Definition of random m	odels
\bgTime		Time axis
\bgRS	$\overset{\circ}{D}$	Random model
\bgRSSp	D D	All models
/~O-~~L	-	111 110 0010

\bgRSinput	a	Input signal
\bgRSinputSp	$\mathcal{A}_{\mathbb{T}}$	
\bgRSinputH	$oldsymbol{a}^{\mathbb{T}}$	History of input signal
\bgRSoutput	$oldsymbol{b}_{_{_{TI}}}$	
\bgRSoutputH	$\boldsymbol{b}^{\mathbb{T}}$	History of output signal
\bgRSoutputSp	${\mathfrak B}$	
\bgRSinputTr	$oldsymbol{g}$	
\bgRSinputTrSp	$\mathrm{G}^{\mathcal{A}}$	
\bgRSoutputTr	h	
\bgRSoutputTrSp	$\mathrm{G}^{\mathcal{B}}$	
\bg0bs	$oldsymbol{y}$	observations
\bg0bsH	$\boldsymbol{y}^{\mathbb{T}}$	observations history
\bg0bsSp	ÿ	observation space
	<i>C</i>	
articles/camera	Camera paper order	
\rank		
\place	place	
\ff	f	Distance to similarity function
\Sany	\mathcal{M}	Generic hypersphere
\targetSp	\mathfrak{M}	Target manifold
Ssubset	$M_{\underline{}}$	A subset of M XXX
\infr	infr	Informative radius
\ffr	infr(f)	Informative radius of f
\distradius	rad	Radius of a distribution
\distdiam	diam	Diameter of a distribution
\hausdorff	hausdorff	Hausdorff distance
\kimberley	kim	Kimberley value
\errproc	$e_{ m pr}$	Procrustes score
\isoError	e_{iso}	
\symError	e_{sym}	
\relError	e_{r}	
\scaledRelError	$e_{\sf sr}$	
\angcorr	$ ho_{ heta}$	
spearperf	$ ho_{ m sp}$	Spearman performance measure
\spearperfn	$ ho_{ m sp}^*$	Normalized Spearman performance measure
\dirset	S	Set of directions
\dirmat	${f S}$	Directions stacked in a matrix
\matX	\mathbf{X}	
\matI	I	
\arot	$\overline{\mathbf{X}}$	
\cosmat	$\overline{\mathbf{C}}$	
\cosmatij	$\overset{f C}{{ m C}}_{ij}$	
\distmat	\mathbf{D}^{ij}	
\distmatij	D_{ij}	
\simmat \simmat	\mathbf{Y}^{Dij}	Similarity matrix
		Similarity mounts
1		
\simmatij	Y_{ij}	
\simmatij \simmatii	${ m Y}_{ij} \ { m Y}_{ii}$	
\simmatij \simmatii \simmatkl	$egin{array}{c} \mathbf{Y}_{ij} \ \mathbf{Y}_{ii} \ \mathbf{Y}_{kl} \end{array}$	
\simmatij \simmatii \simmatkl \algorparam	$egin{array}{c} \mathbf{Y}_{ij} \ \mathbf{Y}_{ii} \ \mathbf{Y}_{kl} \ \gamma \end{array}$	
\simmatij \simmatii \simmatkl	$egin{array}{c} \mathbf{Y}_{ij} \ \mathbf{Y}_{ii} \ \mathbf{Y}_{kl} \end{array}$	field of view

\SKalgo	SK	Shepard-Kruscall algorithm
\SBSEw	SKv + w	An extension to the SK algorithm
\SBSE	SKv	An extension to the SK algorithm (without warping)
articles/dds	$DDS\ report$	
\ddsres	ρ	Resolution of the sensor in a DDS.
\ddsarea	$ \mathcal{S} $	Area of the manifold S .
\ddsbound	$d_{ m max}$	Bound on the maximum diffeomorphism in a DDS.
\DDS	DDS	
\dds	DDS	
\ddsl	DDSL	
\DDSsu	$DDS(\mathcal{S};\mathcal{U})$	
\DDSLsvu	$DDSL(\mathcal{S},\mathcal{V};\mathcal{U})$	
\bgDDSfamily	DDS	
bgDDSLfamily	DDSL	
\diffeoURL	???	Model
\cmdAlphabet	\mathcal{U}	
ncmdwords	$ \mathcal{U} $	Number of commands words.
obsspD	d^{S}	Metric on S .
\diffId	$Id_\mathcal{S}$	Identity diffeomorphisms.
\diffU	Γ	Uncertainty of estimated diffeomorphism.
\diffDist	d^{Diff}	Distance between two diffeomorphism.
\cmdDist	$\mathcal{D}_{\mathrm{cmd}}$	Distance between two commands.
\cmdADist	$\mathcal{A}_{\mathrm{cmd}}$	Anti-distance between two commands.
\images	$\mathbb{F}(\mathcal{S})$	
\obspsV	\mathcal{V}	viewport
\ddsfov	\mathcal{V}	viewport
\obspsVunpred	$\gamma_{\overline{ m pr}}$	undpredictable part
\obspsVpred	$\mathcal{V}^{\mathrm{pr}}$	predictable part
\obspsVunpredt	$\mathcal{V}_t^{\overline{ ext{pr}}}$	undpredictable part at time t
\obspsVpredt	$\mathcal{V}_t^{ ext{pr}}$	predictable part at time t
\ddsctod	$^{\prime}_{t}$ C_TO_DIFF	production part at time t
\ddsste	x	State of a DDS (element)
\ddsst	$oldsymbol{x}$	State of a DDS
(ddbb b	w	State of a DDS
articles/deepdyn	Learning of latent/deep	p dynamics
ldmap	γ	Map from latent state to instantaneous dynamics
hclass	${\cal H}$	Hidden class
\iclass	\mathcal{M}	Instantnaeous class
articles/despl	Parallel learning paper	
	311	
\desplStats	Stats	
\despliStats	IStats	
\desplibata	Data	
\desp1Data	IData	
\despinata\ \despinate	Models	
\desplinedels \desplinedels	IModels	
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	\desplglue	glue	
	\desplmglue	mglue	
	\desplays \denote \defp \denote	stats	
	\desplmerge	merge T	Interval
	\desplinter	I Clina Ctata Manag	Interval
	\patternA	Slice - Stats - Merge	
	\patternB	Split - Stats - Glue Filter - Learn - Glue	
	\patternC	Recursive-Learn-Grue	
	\patternD	A2	
	\proto		
	\slicelen	slicelen	
	\njobslearn	n_{learn}	
	\njobsmerge	$n_{ m merge}$	
	\njobstotal	$n_{ m jobs}$	
	articles/compmake	Compmake	
_	\Compmake	Compmake	
	\parmake	parmake	
	\sgemake	sgemake	
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	articles/dptr1	Technical report for diffe	eoplanning
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	\SetImages \SetUImages \genericdist{,} \genericudist{,} \obsstart \obsgoal \SetPlans \planSp \redplans \plan \plang \planf \zeroplan \obsu \obsue	Ulm y_{start} y_{\circ} $Plans$ $Plans$ $RedPlans$ p p_{\circ} p^{\star} \emptyset z z	a generic plan true plan The solution found Scalar uncertainty Scalar uncertainty area around pixel s Generic diffeomorphisms
	\SetImages \SetUImages \genericdist{,} \genericudist{,} \obsstart \obsgoal \SetPlans \planSp \redplans \plan \plang \planf \zeroplan \obsu \obsue \sarea	Ulm $oldsymbol{y_{ ext{start}}} oldsymbol{y_{ ext{start}}} oldsymbol{y_{\circ}} oldsymbol{Plans}$ Plans RedPlans $oldsymbol{p}$ $oldsymbol{p_{\circ}}$ $oldsymbol{p^{\star}}$ $oldsymbol{\emptyset}$ $oldsymbol{z}$ $oldsymbol{z}$ $oldsymbol{z}$ $oldsymbol{A}$	a generic plan true plan The solution found Scalar uncertainty Scalar uncertainty area around pixel s Generic diffeomorphisms Generic diffeomorphisms
	\SetImages \SetUImages \genericdist{\delta} \genericudist{\delta} \obstart \obsgoal \SetPlans \planSp \redplans \plan \plang \planf \zeroplan \obsu \obsue \sarea \dd \dde \dde \dde	Ulm $oldsymbol{y_{\mathrm{start}}}$ $oldsymbol{y_{\mathrm{start}}}$ $oldsymbol{y_{\circ}}$ Plans Plans RedPlans $oldsymbol{p}$ $oldsymbol{p_{\circ}}$ $oldsymbol{p^{\star}}$ $oldsymbol{\emptyset}$ $oldsymbol{z}$ $oldsymbol{z}$ $oldsymbol{A}$	a generic plan true plan The solution found Scalar uncertainty Scalar uncertainty area around pixel s Generic diffeomorphisms Generic diffeomorphisms its uncertaint
	\SetImages \SetUImages \genericdist{\delta} \genericudist{\delta} \obsstart \obsgoal \SetPlans \planSp \redplans \plang \planf \zeroplan \obsu \obsue \sarea \dd \dde \dde \ddu \ddue	Ulm $oldsymbol{y_{\mathrm{start}}}$ $oldsymbol{y_{\mathrm{start}}}$ $oldsymbol{y_{\circ}}$ Plans Plans RedPlans $oldsymbol{p}$ $oldsymbol{p_{\circ}}$ $oldsymbol{p^{\star}}$ $oldsymbol{\emptyset}$ $oldsymbol{z}$ $oldsymbol{z}$ $oldsymbol{z}$ $oldsymbol{A}$ $oldsymbol{\varphi}$ $oldsymbol{\varphi}$ $oldsymbol{\gamma}$ $oldsymbol{\gamma}$	a generic plan true plan The solution found Scalar uncertainty Scalar uncertainty area around pixel s Generic diffeomorphisms Generic diffeomorphisms
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	\SetImages \SetUImages \genericdist{,} \genericudist{,} \obsstart \obsgoal \SetPlans \planSp \redplans \plan \plang \planf \zeroplan \obsu \obsue \sarea \dd \dde \dde \ddu \ddue \udiffSp	Ulm y_{start} y_{\circ} Plans Plans RedPlans p p_{\circ} p^{\star} \emptyset z z A φ φ γ γ UDiff	a generic plan true plan The solution found Scalar uncertainty Scalar uncertainty area around pixel s Generic diffeomorphisms Generic diffeomorphisms its uncertaint
	\SetImages \SetUImages \genericdist{\delta} \genericudist{\delta} \obstart \obsgoal \SetPlans \planSp \redplans \plan \plang \planf \zeroplan \obsu \obsue \sarea \dd \dde \dde \ddu \ddue \udiffSp articles/dptr1/structure	Ulm y_{start} y_{\circ} Plans Plans RedPlans p p_{\circ} p^{\star} \emptyset z z A φ φ γ γ UDiff	a generic plan true plan The solution found Scalar uncertainty Scalar uncertainty area around pixel s Generic diffeomorphisms Generic diffeomorphisms its uncertaint
	\SetImages \SetUImages \genericdist{,} \genericudist{,} \obsstart \obsgoal \SetPlans \planSp \redplans \plan \plang \planf \zeroplan \obsu \obsue \sarea \dd \dde \dde \ddu \ddue \udiffSp	Ulm y_{start} y_{\circ} Plans Plans RedPlans p p_{\circ} p^{\star} \emptyset z z A φ φ γ γ UDiff	a generic plan true plan The solution found Scalar uncertainty Scalar uncertainty area around pixel s Generic diffeomorphisms Generic diffeomorphisms its uncertaint

```
\dssame
                                               same
\dsvoid
                                               void
\SOtwo
                                               SO(2)
articles/dptr1/simplification
                                                plan\ reduce
\plantodiff
                                                p_to_d
\protect\
                                               p_to_d
\pd
                                               p_to_d
\planreduce
                                                PlanReduce
                                                noutoforder
                                                                              TODO
\noutoforder
                                                Distances
articles/dptr1/distances
                                               \frac{d_{L_1}^{\operatorname{Diff}(\mathcal{S})}}{d_{L_1}^{\operatorname{UDiff}(\mathcal{S})}}
\dDiffLone
\dUDiffLone
\dobsps
\dImL{...}
                                               \begin{array}{c} d_{L_1}^{\rm Im} \\ d_{L_2}^{\rm Im} \end{array}
\dImLone
\dImLtwo
\dImN{\dots}
\dImD{...}
\cmdOrd
                                                \prec
\algoname{...}
\gnbc
                                                GNB
\bnbc
                                               BNB
\bngc
                                               BNG
\bntc
                                               BNT
\gebc
                                               GEB
\bebc
                                               BEB
                                               BEG
\begc
                                               BET
\betc
\betcb
                                               BETc
\plansarea
                                                P_{\text{near}}
                                               cover
\algocover
\algoplanreduce
                                                planreduce
                                               bidirectional-search
\algobidirectional
                                                Dubin'scar
\dubinsys
\orbitsys
                                               Orbit camera \\
\markit{...}
\markA
\markB
                                               ‡
                                               8
\markC
\distthres
                                               c
\btrue
                                               {\rm true}
\bfalse
                                               false
\botherwise
                                               otherwise
\cmdleft
                                               oldsymbol{u}_{left}
\cmdright
                                               oldsymbol{u}_{right}
\cmdup
                                               oldsymbol{u}_{top}
\cmddown
                                                oldsymbol{u}_{down}
\imvis
                                               vis
                                                                               Visibility
                                               v_0
\minvis
```

\maxdis	d_g	goal threshold
\impred	pred	Image prediction
\plA	RLrl	
articles/neucontrol	$neuromorphic\ control$	
		Clip up to some boundary
\maxu	b	
\clipu	sat_b	
gain	$\frac{\kappa}{-}$	
\settime	\mathbb{T}	**
\controllerLast	C1	Uses last event
\controllerTI	C2	Time integrale
\controllerTS	C3	time smoothed
\controllerTN	C4	Time neural
articles/optcam	$optimal\ sensor$	
\ds	Δ_s	Spatial sampling
\dt	Δ_t	Temporal sampling
\db	Δ_b	Brightness threshold
dvsth	Δ_b	Threshold
\camexp	EX	Exposure
mseps	MSE_{ps}	periodic sampling
\mseeb	MSE_{eb}	MSE event based
\bwps	$\mathrm{BW}_{\mathrm{ps}}$	bandwidth periodic sampling
\bweb	$\mathrm{BW}_{\mathrm{eb}}$	bandwidth event based
\ori	α	
articles/estgroups	Estimation with symmetry	tries
articles/estgroups/state	State	
\esSt	x	State
\esStDim	n	Dimension of state space
\esStSp	$\chi_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{$	State space
\esStDist	$\mu_{m{x}}^{\chi}$	Prior for state
articles/estgroups/observations	Observations	
\es0bs	y	Observations
\esObsDim	m	Observations dimensions
\es0bsSp	y	Observations space
\es0bsMap	h	Observation map
		y = nh(x)
		φ\
		<pre>\$\esObs = \esNuis \esObsMap(\esSt)\$</pre>
articles/estorouns/nuisances	Nuisances	\$\esubs = \esnuis \esubsMap(\esst)\$
articles/estgroups/nuisances	Nuisances n	
\esNuis	n	Nuisance
\esNuis \esNuisSp	n N	Nuisance Nuisance group
\esNuis	n	Nuisance
\esNuis \esNuisSp \esNuisDist articles/estgroups/estimators	$egin{array}{c} m{n} \\ \mathbf{N} \\ \mu^{\mathrm{N}}_{m{n}} \\ Estimators, \ risks \ and \ personal or stress and \ personal or \ personal or \ personal or \ personal $	Nuisance Nuisance group Nuisance distribution exformances
\esNuis \esNuisSp \esNuisDist articles/estgroups/estimators \esEst	n N μ_n^N Estimators, risks and perm	Nuisance Nuisance group Nuisance distribution erformances Estimator
\esNuis \esNuisSp \esNuisDist articles/estgroups/estimators	$egin{array}{c} m{n} \\ \mathbf{N} \\ \mu^{\mathrm{N}}_{m{n}} \\ Estimators, \ risks \ and \ personal or stress and \ personal or \ personal or \ personal or \ personal $	Nuisance Nuisance group Nuisance distribution exformances

\esEstSp0pt	\mathcal{M}^{\star}	Optimal subset of estimators
\esRisk	e	Risk function
\esRiskSp	3	Risk space
		Risk distribution for given estimator
\esRiskDistP0	$\overset{\preceq}{\mathcal{P}}$	Partial order defining preference on distributions.
\esProb	${\cal P}$	Estimation problem
articles/estgroups/symmetries	Symmetries in the probl	em
\esStAb	α	Abstract state
\esStAbSp	${\mathcal A}$	Abstract space
\esRep	arphi	Representation
		$\varphi: x \mapsto \alpha.$
		<pre>\$\esRep: \esSt \mapsto \esStAb\$.</pre>
\esStSym	A	Group of symmetries of the state
\esObsSym	В	Group of symmetries of the observation
\esRiskSym	\mathbf{C}	Group of symmetries of the risk function
\esPOSym	D	Group of symmetries acting on the partial order
\esProbSym	${\mathcal S}$	Tuple of symmetries
articles/1509-gcmdp		
\dprobsp	DP	
\dprob	dp	Design problem
\dpseries	series	
\dppar	par	
\dploop	loop	
\cdprobsp	CDP	
\cdprob	cdp	Design problem
\dpatoms	atoms	Atoms of a cdp
\resMin	$\operatorname{Min}_{\leq_{\mathcal{R}}}$	Thomas of a cup
articles/groupspectral	Group spectral propertie	
\gsHom	HomMaps	Induced homomorphisms.
\gsImage	Image	
\gsEqs	EqSet	Fixed points of a function.
\gsGA	GrAct	If the function is the action of a group.
\gsGAsym		Used to specify that a function can be expressed as a gro
\gsSym	Sym	Set of symmetries
\gsStrongCan	SCan	Strong canonization operator
\gsWeakCan	WCan	Weak canonization operator
\gsEquiCan	BCan	Bold canonization operator
\gsEndoCan	MCan	Mild canonization operator
\gsUnCan	UCan	Unstructured canonization operator
\gsNuis	Sample	
regular	regular	
\unstr	\sim	Unstructured symbol.
\jokFunc	*	Joker function
\zerFunc	0	Zero function
articles/groupspectral/defs	Group spectral propertie	s
\gsdContravariant	$\xrightarrow{-1}$	Contravariance
\gsdInvariant	$\xrightarrow{0}$	Invariance
O we will also a series of	,	

\gsdEquivariant	$\overset{Id}{\longrightarrow}$	Equivariance
\gsdIntroduces	* *	Nuisance introduced
\gsdUnstructured	~(Unstructured result
/gsdonstructured	/	Chatractured result
articles/invariances	Invariances	
		Dual of a representation nuisance
\brel	\leq_B	Simulation partial order
bsim	\sim_B	Simulation relation
·		
articles/jbds	$Symbols\ introduced$	
veh	B	A vehicle body
\vehBody	B	A vehicle body
\vehKin	K	Vehicle kinematics
\vehSensPos	$m{r}$	Sensor relative pose
\vehSensFun	ψ	Function that defines an exteroceptive sensor
\env	e	Environment
\envSp	${\cal E}$	Environment space
\envo	$\mathcal O$	Obstacles in the environment
\envt	${\mathcal T}$	Texture (function on $\partial \mathcal{O}$)
\envf	${\cal F}$	Field sensed by field sampler
\envob	$\partial \mathcal{O}$	Obstacles boundaries
\obspsDiff	$\mathcal{S}^{ ext{dif}}$	2
\obspsNotDiff	$\mathcal{S}^{\overline{ ext{dif}}}$	
\sic	VS	ideal camera
\sir	RF	ideal range finder
\sif	FS	ideal field sampler
\sicV	$\operatorname{VS}(\mathcal{V})$	ideal camera with viewport
\sirV	$\mathrm{RF}(\mathcal{V})$	ideal range finder with viewport
\sifV	$\mathrm{FS}(\mathcal{V})$	ideal field sampler with viewport Zero order hold
$\operatorname{\mathbb{Z}}$		Zero order noid
articles/jbds/misc	Used in proofs for	JBDS
\ygneig	N	A neighborhoood of $\boldsymbol{y}_{\circ}.$
articles/jbds/robots		
\allrobots	Robots	The set of all robots
\vehRob	ISV	Idealized Simple Vehicles
$\venture{$\operatorname{VehRobNuis}$}$	IŜV	Vehicle robots with nuisances
\robVeh	ISV	
	0 1: 11 : 6	1 1 1 1 1
articles/optbody	Optimal design of	body and mind
\MA	A	
\MB	В	
\MC	C	
MG	G	
\MH	H	
ML	L	
MQ	\mathbf{Q}	
MP	P	
MS	\mathbf{S}	
\MSigma	$oldsymbol{\Sigma}$	

\ MT/	1 7	
\MV	V	
\MW	\mathbf{W}	a ·
\SP	$P_{ m s}$	Sensing power
\AP	$P_{\rm a}$	Actuation power
\SE	E	Stored energy
\ER	r	Trajectory efficiency ratio
\HP	Θ	Heading precision
\np	n	Number of pixels
articles/1508-rafc	Function, implementati	on etc
\funsp	F	Function space
\funleq	$\leq_{\mathfrak{F}}$	Function space
\fun	f	Function
\funtop	$\top_{\mathcal{F}}$	Tune from
\funbot	$\perp_{\mathcal{F}}$	
\imp	i i	Implementation
\impsp	J	Implementation space
\rmpsp \exc		Executation exec: $\mathcal{I} \to \mathcal{F}$
\exc \eval	exec eval	Evaluation evel: $\mathfrak{I} \to \mathfrak{R}$
	\mathcal{P}	Parameter space
\paramsp		Resources
res	r	Resources
resleq	$\leq_{\mathcal{R}}$	
\restop	$\top_{\mathcal{R}}$	
\resbot	$\perp_{\mathcal{R}}$	D
ressp	\mathcal{R}	Resources space
resspleq	$\leq_{\mathcal{R}}$	The state of
\tressp	$\mathfrak{I}(\mathfrak{R})$	Trade-off space
\trof	\mathcal{T}	Trade-off space
\tres		T 1 m
\tresleq	≤τ	Trade-off space
\trleq	$\frac{\leq_{\mathfrak{T}}}{S}$	Trade-off space
Res		
Resa	S_1	
Resb	S_2	
\resa	r_1	
resb	r_2	
Ressp	$\mathcal{P}(\mathcal{R})$	
Resleq	$\leq_{\mathcal{P}(\mathcal{R})}$	
\rtoapp	Ψ	
\colR		
\colF		
\colH	CHE	
\CHF	CHF	
articles/1508-ragh	Resource Allocation pro	hlem
\clatency	latency	
\cperiod	period	
OPOLIOG	poriou	
articles/1508-ragh/rgraph	Resource Graph	
\rN	rN	A resource graph's vertices
\rE	rE	A resource graph's edges
1		0 1 0

\rG	rG	A resource graph
\rGsp	RG	Space of resource graphs
\rn	rn	A resource node
\rnops	rn.capacity	A resource's capacity
\rntype	rn.type	A resource's type
\rntypes	RTypes	A resource's type
\rnA	rn_1	
\rnAops	$rn_1.capacity$	
\rnB	rn_2	
\rnBops	$rn_2.capacity$	
\re	re	A resource edge
relink	re.link	A resource
relatency	re.latency	
rebandwidth	re.bandwidth	
\reA	re_1	
\reB	re_2	
\reAlatency	re_1 .latency	
\reAbandwidth	re_1 .bandwidth	
\reBbandwidth	re_2 .bandwidth	
\reiint	re.int1	Output interface (first node)
\reoint	re.int2	Input interface (second node)
1200220		input intertuce (second neute)
articles/1508-ragh/cgraph	$Computation\ Graph$	
\cG	cG	A computation graph
\cGsp	CG	Computation graph spaces
\cGleq	≤cg	Order on computation graphs
\cN	cN	A cgraph's vertices
\cE	cE	A cgraph's edges
\cn	cn	A computation node
\cnA	cn_1	Tr compactation node
\cnB	cn_2	
\cnops	cn.ops	A computation node's ops
\dotops	.ops	11 computation node 5 ops
\cnAops		
•	cn ₁ .ops	
\cnBops \cce	cn ₂ .ops	A computation edge
\cce \ceA	ce	A computation edge A computation edge
	ce ₁	•
\ceB	ce ₂	A computation edge
\dotsize	.size	Signal size (bytes)
\cesize	ce.size	Signal size (bytes)
\ceAsize	ce ₁ .size	
\ceBsize	ce ₂ .size	
	DL 1 1: 1	
articles/1508-ragh/links	Physical links	Dhysical links
\PL	PLinks	Physical links
\pl	pl	Physical link
\pplA	pl_1	plA conflicts
\plAlatency	$pl_1.latency$	
\plAbandwidth	pl ₁ .bandwidth	
\pllatency	pl.latency	
\plbandwidth	pl.bandwidth	

articles/1508-ragh/allocations	Allocations	
as	as	An assignment
\asm	as.m	The momomorphism
asmn	$as.m_N$	
asme	$as.m_E$	
asmni	$as.m_N^{-1}$	
asmei	$as.m_E^{\frac{N}{2}}$	
asmi	$\operatorname{as.m}^{\overset{L}{=}1}$	The right inverse of the momomorphism
asla	as. $lpha$	The link allocation
\asca	as. eta	The computation allocation
ctdelay	delay	Continuous-time delay
\ctsample	sample	Continuous-time sample
\rtof	arphi	r
\ftor	$\overset{\tau}{h}$	
\ftoR	H	
\Rcomp	$\frac{1}{\mathbb{R}}$	
, _	\mathcal{V}	
\dpvars \benchmark	v benchmark	
· ·		
deploy	deploy ${f U}$	Universe of types
\utypes	_	Universe of types
app	Apps	
appsp	Apps h	
\ghom		
\ghomv	h_V	
ghome	h_E	TT 1: C. 1
\ghomsp	Hom	Homomorphism space of two gaphs
		Hom(cG, rG)
\ 1 1		<pre>\$\ghomsp(\cG,\rG)\$</pre>
mydash		
\rgcmd	driver-cmd	
rgobs	driver–obs	
cgcmd	output	
\cgobs	input	
ortigles/seettetheery	Cambala wood by Coatta	
articles/soattotheory \scene	Symbols used by Soatto ξ	scene
\representation	$\hat{\xi}$	representation
\ 1		•
minrep	$\hat{\xi}^{\vee}$	minimal representation
\feature	$\phi \\ \phi^{\wedge}$	feature
\maxinv		maximal invariant feature
\suffstat	ϕ^{\vee}	maximal invariant feature
\image	\mathcal{I}	image
\addnoise	n	additive noise
\imageform	h	image formation function
\groupnuis	g	nuisance which have the structure of a group
othernuis	ν	other non-invertible nuisance
\ 7 : -1 + £: - 7 .1		-11
\lightfield	${\cal L}$	all possible images generated by a scene
complex	\mathcal{L} H	Complexity measure
	${\cal L}$	

articles/soattotheory/mseerep	$msee\ report$	
		Domain sampling operator (subset)
$ \text{nusample} \{ \dots \} $		Domain sampling operator (subset)
		Value Discretization operator (subset)
$ \setminus \mathtt{nusmooth}\{\dots\} $		Smoothing operator (kernel)
$ \setminus nucens{} $		Censoring operator (field of view)
$ \setminus nuoccl{} $		Occlsions
\imform	I	
\contrast	f	
articles/thesis	Special symbols for thes	
\labelrefinement	ref	Indicates a refinement
\pchomeoR	$PieceHomeo(\mathbb{R})$	1
		used in properties 1.dot
\bitZ		
\bit0	□□□□N	
\infbinstrings	$\{\Box, \boxdot\}^{\mathbb{N}}$	Set of infinite binary strings
\twosignals	$y^i,y^j \ y^i$	
\twosignalsa		
\twosignalsb	y^j	
\twosignalscolon	$y^i; y^j$	O. 1fi
\semrelorder	m	Order of a generic semantic relations
\infinit	$\frac{d}{\mathcal{D}}$	Infinitesimal
\genericsemrel	\mathcal{R}	A generic semantic relation.
\gensemrelsym	$Sym(\mathcal{R})$	Symmetries of the semantic relation
\genericsimilarity	R	A generic similarity measure.
\obsecdf	c	CDF of one sensel
\cmdreverse	ρ	The map from a command to its reverse.
\cmdopt	$egin{array}{c} u^\star \ u^nop \end{array}$	The optimal command
\cmdnop		Command corresponding to "resting".
\rew	R	Reward function
\placeneig	Neighbors	Generic relation
\genericrel	~	Generic relation
\notgenericrel	<i>~</i>	
articles/thesis/longexample	Long example	
\CalibA	CalibA	
\CalibB	CalibB	
Smoothkernel	k	
Smooth	$Smooth_k$	
\BGDSAg	BGDSagent	
\BGDSAgS	BGDSagentS	
\DImagesU	$\mathfrak{D}(Im(\mathcal{S});\mathcal{U})$	
\DImagesR	$\mathcal{D}(Im(\mathcal{S});\mathbb{R}^{n_{oldsymbol{u}}})$	
\ABehavior	behavior	
\DImagesSphU	$\mathcal{D}(Im(\mathbb{S}^2);\mathcal{U})$	
hobs	$oldsymbol{x}$	
hobse	x	
bound	M	

common/abbreviations	$Other\ abbrevations$	
\setA	\mathcal{A}	
\setB	${\mathfrak B}$	
\setC	C	
\setU	u	
\setM	\mathfrak{M}	
\setY	y	
\setX	$\overset{\sigma}{\mathfrak{X}}$	
\setZ	\mathcal{Z}	
. `	\$ \$	
\setS	G	
\grG		
\grH	H	
\grK	K	
\grN	N	
common/inv-abbreviations		
sqa	a	
\sqae	a	
\sqb	\boldsymbol{b}	
\sqbe	b	
\sqc	$oldsymbol{c}$	
\sqce	c	
common/ocronyma	A aronaum a	
common/acronyms	A cronyms	
common/algebra	Algebra	
\ones	1	
\idMat	${f I}$	Identity matrix
\matTrace	Tr	Trace of a matrix.
\angleFun	_	Angle function
\flatten	vec	Matrix-to-vector rearrangement.
	D	
common/basic	Basic stuff	
\setfun	\Rightarrow	Symbol for set functions (one-to-many)
\algfield	field	Field.
		$field(\mathfrak{X}, +, \times)$ is an algebraic field.
		<pre>\$\algfield(\aset{X},+,\times)\$ is an algebraic</pre>
\		field.
\wellorder	wellorder	A well ordered set.
		$wellorder(\mathfrak{X}, \leq)$ is a well-ordered set.
		$\$ wellorder(\aset{X},\leq)\$ is a well-ordered
\	1 16: 11	set.
\orderedfield	orderedfield	A well ordered field.
		orderedfield($\mathfrak{X}, +, \times, \leq$) is a well-ordered field.
		$\operatorname{red}(\operatorname{X},+,\operatorname{Imes},\operatorname{A}) \$ is a
		well-ordered field.
powerset	powerset	Power set of a space
\supp	supp	Support of a set
\idFunc	ld	The identity function

\	1	T C
\invFunc	•	Inverse function
funcComp	0	Function composition
\emptysequence	Ø	Empty sequence
\allFuncs	Functions	All maps from a space to the other
\D	d	Used for integrals
\sign	sgn	Sign function
common/sequences	Sequences	
\sequences	Sequences	Set of sequences
\contsequences	ContSequences	Set of continuous sequences
\Aut	Aut	Automorphism group
\contFuncs	Continuous	Continuous functions on some metric space
		Continuous(\mathcal{A}) are all continuous functions on \mathcal{A} .
		\$\contFuncs(\setA)\$ are all continuous functions
		on \$\setA\$.
\differFuncs	Differentiable	Differentiable functions
\partitions	partitions	Differentiable functions
\mExp	mexp	Matrix exponential
\big0	\mathcal{O}	Big-O notation
\smallo		Dig-O notation
,	0	
	≜	
\definedas		1 4
\crossprod	Χ .	cross-product
\gsDom	Domain	
\gsCod	Codomain	
\interCC{,}		
\interCO{,}		
\interOC{,}		
\inter00{,}	[0, 1]	
\unitInterval	[0,1]	
common/basic/logic	Logic	
\logicAnd	^	Logic "and"
\logicOr	V	Logic "or"
\logicNot	П	Logic "not"
common/gimplogota	$Simple\ sets$	
common/simplesets \reals	\mathbb{R}	Real numbers
\natnumbers	N	Natural numbers
\ratnumbers \ratnumbers		Rational numbers
\hreals	$\mathbb{Q}_{*\mathbb{R}}$	Hyper-real numbers
\nonNegReals	\mathbb{R}^+_{ullet}	Non negative reals
\posReals	\mathbb{R}^+_\circ	Strictly positive reals
\nzReals	\mathbb{R}_{\circ}	Nonzero reals
\IIZItea15	πσ0	Nonzero reais
common/blackboxes	Black boxes	
		A black box
\bbD	D	
ackslash		Inverse of a black box
ackslash		left inverse of a black box
ackslash		right inverse of a black box

\alloutcomes	AllOutcomes	
alloutputs	AllOutputs	All outputs of a given system
\bbDelay	Δ	The one-step delay system.
\vertblock		The one step dotay system.
1		A1- tt
\bbAccum	ļii .	Accumulator system
\inLoop	Loop	Closes the loop around a system
\idSys	IdSys	The identity system
\bbSp	${\mathfrak D}$	Set of black boxes
		$\mathcal{D}(\mathfrak{X}; \mathfrak{Y})$ are all the black boxes from \mathfrak{X} to \mathfrak{Y} .
		<pre>\$\bbSp(\setX;\setY)\$ are all the black boxes</pre>
		from \$\setX\$ to \$\setY\$.
\bbFM	\mathcal{D}_{fm}	Systems with finite memory
\bbSpInv	D*	Set of invertible systems
, _	_	
\bbFMinv	\mathcal{D}^{\star}_{fm}	Systems with finite memory and invertible
\bbSpIns	$\mathcal{D}_{ ext{inst}}$	Set of instantaneous systems
\bbSpDet	$\mathcal{D}_{ ext{det}}$	Deterministic systems
ackslash bbSpInvIns	$\mathcal{D}^{\star}_{\mathrm{inst}}$	Set of invertible and instantaneous systems.
		$\mathcal{D}^*(\mathcal{A})$ is a subset of $\mathcal{D}(\mathcal{A};\mathcal{A})$
		<pre>\$\bbSpInv(\setA)\$ is a subset of</pre>
		\${\bbSp(\setA;\setA)}\$
\bbSpCore	₽°	Systems up to representation
(bbbpccic	D	Systems up to representation
common/blackboxes/a	hhamistians	
	$oldsymbol{D}^{-1}$	
\bbDinv		
\bbDri	$oldsymbol{D}_{\perp}^{R}$	
\bbDli	\boldsymbol{D}^L	
\bbE	$oldsymbol{E}$	
\bbF	$oldsymbol{F}$	
\bbG	$\overset{-}{G}$	
\bbH	H	
,	$\stackrel{oldsymbol{II}}{L}$	
\bbL		
\bbSpBA	$\mathcal{D}(\mathcal{B};\mathcal{A})$	to write
\bbSpAB	$\mathcal{D}(\mathcal{A};\mathcal{B})$	to write
common/blackboxes/d		
\bb0p	⊕	Composition operation
\inSeries	Series	Series of two systems
\bbSpAny	\mathfrak{D}_*	Any of the following
\bdotbb{f}		Discrete time
\bbSpCT	\mathcal{D}^{c}	Continuous time
\bbSpEB	$\mathfrak{D}^{\mathrm{e}}$	Event-based
, <u>T</u>		
common/boot	$Bootstrapping\ sym$	bols
common/boot/obscmd	Observations and a	commands
\world	m	The "world", an element of $\mathcal{D}(\mathcal{Y};\mathcal{U})$.
\obs	y	Observations vector.
\obse	$\stackrel{oldsymbol{\mathcal{G}}}{y}$	Observations element.
\cmd	$oldsymbol{u}^g$	Commands vector.
. \		Commands element.
\cmde	u	
\nobs	$n_{oldsymbol{y}}$	Number of sensels

\ncmd	$n_{oldsymbol{u}}$	Number of actuators
\obsSp	y	Observation space
$\backslash \mathtt{cmdSp}$	\mathcal{U}	Commands space
cmdSph	$\overline{\mathcal{U}}$	Domain of a single actuator $\mathcal{U} = \overline{\mathcal{U}}^{n_u}$.
\obsSph	$\frac{\overline{y}}{y}$	Domain of a single sensel $\mathcal{Y} = \overline{\mathcal{Y}}^{n_y}$.
\	$d^{\overline{\overline{y}}}$	Metric on $d^{\overline{y}}$
\obsSphd	$d^{\mathcal{Y}}$	Metric on $d^{\mathcal{Y}}$
\obsSpd	a^{σ}	Metric on a°
common/boot/spatialsensors	Spatial sensors	
\obssp	Spatial Schools	Observation physical space.
' -	S	Observation physical space. Observation physical space.
\obsps		
\genimages	lm	Images on physical space \mathcal{S} .
\imps	$Im(\mathcal{S})$	Images on physical space S .
common/boot/servo	Servoing	
obsgmark	o	
,		Goal observations.
\obsg	$oldsymbol{y}_{\circ}$	
\obsge	y_\circ	Goal observations (element).
obsgl	$oldsymbol{z}_{\circ}$	Goal observations (element).
\obsgle	z_{\circ}	Goal observations (element).
/1 / 11	A11 ' ' '	
common/boot/abbreviations	Abbreviations	. •1
\bbSpYU	$\mathcal{D}(\mathcal{Y};\mathcal{U})$	to write
\bbSpYXU	$\mathcal{D}(\mathcal{Y}; \mathcal{X}; \mathcal{U})$	to write
\bbSpUY	$\mathcal{D}(\mathcal{U};\mathcal{Y})$	to write
\bbSpInvY	$\mathcal{D}^{\star}(\mathcal{Y})$	Representation nuisances on commands
\bbSpInvU	$\mathfrak{D}^{\star}(\mathfrak{U})$	Representation nuisances on observations
\bbSpInvYU	$\mathfrak{D}^{\star}(\mathfrak{P};\mathfrak{U})$	Representation nuisances
\bbSpInvUY	$\mathfrak{D}^{\star}(\mathfrak{U};\mathfrak{Y})$	
\bbSpCoreYU	$\mathcal{D}^{\circ}(\mathcal{Y};\mathcal{U})$	Systems up to representation
common/vehicles	The Vehicles universe	
\veEnvironments	Environments	All Vehicles environments
\veSensors	Sensors	all Vehicles sensors
\veDynamics	Dynamics	all Vehicles dynamics
\veVehicles	Vehicles	
common/vehicles/mah	todo	
\veSce	S	
\veVeh	V	
\veMov	M	
\veAdd	Α	
\veJoi	J	
\vePar	P	Parallel composition of sensors
\veNcmd	U	<u>r</u>
\veNobs	Ϋ́	
/ 0 014 0 0 0	•	
common/expressions	Miscellaneous expressio	ns
\etal	et al.	
\eg	e.g.,	
\etc	etc.	
1000		

\ie	i.e.,	
viceversa	viceversa	
\vs	vs	Versus
adhoc	adhoc	
\apriori	apriori	
\ <u></u>	•	
common/goodformulas	Better formulas annota	
\exp1{}		Explanation in formulas
$\left\{ \text{highA}\left\{ \ldots \right\} \right\}$		Highlight something in formulas (observations)
\emptyset		Highlight something in formulas (commands)
$\highC{\dots}$		both observations and commands
common/yesorno	Miscellaneous functions	for document formatting
- T	Miscellaneous junctions	of accument formatting
\ns \tickYes	\checkmark	
,	7	
\tickNo		
\NA	n/a	
\coltickNo	7	
yes	√	
\no	7	
onehalf	$\frac{1}{2}$	small one half
$\strut \mathbb{N}^{0}$	+1	Small plus one
\smMO	-1	Small minus one (e.g. in smallmatrix)
common/incomplete	$Incomplete\ symbols$	
\towrite	to write	Marker for sections to write
\placeholder{,}	WIIIC	A placeholder
		A placeholder
\citeboh	[mmm]	
\citexxx	$\begin{bmatrix} xxx \end{bmatrix}$	
, `	$egin{array}{c} [xxx] \ ??? \end{array}$	
XXX	???	
XXX		
\notsure	(Not sure)	
\dontlike	(Don't like this)	
\notformal	(not formal)	
ackslash		
\boh	???	incomplete
\bn		bad notation, this should change later
\checkbadformat		incomplete
\prooftowritesomeday		
$\mathbf{myrule}\{\ldots,\ldots\}$		
\unitInverval	[0, 1]	
, .	D:66 1:1	
common/geometry	Differential geometry	Difference and income
\diff	Diff	Diffeomorphism
		$Diff(\mathcal{M})$ are the diffeomeorphisms from \mathcal{M} to itself.
		$\operatorname{diff}(\operatorname{Aset}\{M\})$ are the diffeomeorphisms from
		<pre>\$\aset{M}\$ to itself.</pre>
\diffPos	$Diff_+$	Orientation-preserving diffeomorphism.
\homeoPos	$Homeo_+$	Orientation-preserving homeomorphisms (of the real line
$\diffBounded{\dots}$		Diffeomorphisms with bounded curvature

\diffVol \homeo \isometries	$Diff_{\mathrm{vol}}$ Homeo Isom	Set of all homeomorphisms Isometries group $[Isom(\mathcal{M}) \text{ are all the isometries of } \mathcal{M}.$ $\$ \(\) isometries (\\ \) as et \(\) are all the isometries
\conformalFuncs	Conformal	of \$\aset{M}\$. Diffeomorphisms that fix a point Conformal transformations
common/geometry/manifolds	Manifolds	
\Sone	\mathbb{S}^1	Unit circle.
\Stwo	\mathbb{S}^2	Unit sphere.
\stwo	\mathbb{S}^2	Unit sphere
hypsp	\mathbb{H}	
hypspn	\mathbb{H}^n	
(11) P = P 11		
graphs	Graphs	
\paths	paths	All paths in a graph
\walks	walks	All paths in a graph
\head	head	m pauls in a graph
\tail	tail	
\nodes	nodes	nodes in a walk
1		
\edges	edges	edges in a walk
\sources	sources	(6)
		sources(cG)
		<pre>\$\sources(\cG)\$</pre>
\sinks	sinks	
		sinks(cG)
		<pre>\$\sinks(\cG)\$</pre>
\predecessors	pred	predecessors of a node
		pred(cn)
		<pre>\$\predecessors(\cn)\$</pre>
\successors	succ	successors of a node
		pred(cn)
		<pre>\$\predecessors(\cn)\$</pre>
		1.00
common/groups	Group theory	
\gIdentity	e	Identity of a group
\tgroup	group	Group set with operations
, ,	-	$group(G, \cdot)$ means G is a group under \cdot .
		<pre>\$\tgroup(\agroup{G},\cdot)\$ means \$\agroup{G}\$\$</pre>
		is a group under \$\cdot\$.
\haar	haar	Haar measure
(The Haar measure on \mathfrak{X} is $haar^X$.
		The Haar measure on x is Haar. The Haar measure on x is x is x is x .
		The made measure on ϕ as ϕ is ϕ had ϕ .
common/groups/famous	Famous groups	
\idGroup	Id	The trivial group with identity only.
\rightarroup\permutations	Perm	Set of permutation
\ <u>-</u>	r CIIII	Stabilizer of a set
$\operatorname{\setminus functionsym}\{\ldots\}$		Symmetries of a function

\allsubgroups	AllSubgroups	
$\setminus \mathtt{comgroup}\{\ldots\}$		Commutator sub group
\groupJoin	V	Group join
$\gcd\{\ldots\}$		Conjugation
\groupquotient	/	Group quotient
\groupsemidir	\rtimes	Semidirect product.
\groupisom	\cong	Isomorphism
\issubgroup	\leq	Subgroup relation.
normalsub	⊲	Normal subgroup relation
actionsymbol		Group action.
$\backslash companionFuncs{}$		Companions functions
$ ag{transversalFuncs}$		Transversal functions
common/groups/matrix	$Matrix\ groups$	
\orthogroup	0	Orthogonal group.
\trangroup	Т	Translation group
\segroup	SE	Special Euclidean group.
\Egroup	E	Euclidean group.
\SLgroup	SL	Special linear group
\Diaggroup	D	Diagonal matrices with non-zero elements.
\PMgroup	D_\pm	Diagonal matrices with ± 1 on the diagonal.
\Scalegroup	Sc	Multiples of the identity
\sogroup	SO	Special orthogonal group.
\soneggroup	SO ⁻	
\affgroup	Aff	Affine group
\affgrouppos	Aff_+	Affine group
\GL	GL	General linear group
\GLpos	GL_+	Gonorda Micor Stoup
\se	se	Special Euclidean algebra
\soalgebra	SO	Special Edenatur algoria
\sealgebra	se	Special Euclidean algebra
\S0three	SO(3)	Special orthogonal group (rotation matrices)
\SEthree	SE(3)	Special Euclidean group
\SEtwo	SE(3) SE(2)	Special Euclidean group
\SEthreeAlg	se(3)	Special Euclidean group
\SEtWoAlg	se(3) $se(2)$	
\Sitworig \SOthreeAlg	se(3)	
\SOtwoAlg	se(3) $se(2)$	
\setwo	SE(2)	
\sethree	SE(2) SE(3)	
\setmree \sotwo		
\sotwo \sothree	SO(2)	
Sothree	SO(3)	
common/groung/gimplo	Very simple groups	
common/groups/simple		Multiplication group
\mgroup	$(\mathbb{R}_{\circ}, \times)$	Multiplication group Positive multiplication group
\mpmsroup	$(\mathbb{R}_{\circ}^+, \times)$	+1/-1 multiplication group
\mpmgroup	$(\pm 1, \times)$	+1/-1 multiplication group Addition group
\addgroup	$(\mathbb{R},+)$	Addision group
common/groups/simple/shb	Abbreviations	
common/groups/simple/abb		Addition group on \mathbb{R}^n
\addgroupn	$(\mathbb{R}^n,+)$	Addition group on ℝ

\affone \affonepos \affn \affnpos	$egin{aligned} Aff(\mathbb{R}) \ Aff_+(\mathbb{R}) \ Aff(\mathbb{R}^n) \ Aff_+(\mathbb{R}^n) \end{aligned}$	Affine group 1D Affine group 1D Affine group in n dimensions. Affine transformations preserving orientations.
basic		
basic/optimization	$Optimization \ staff$	
\subto \with	${ m s.t.}$ using	Subject to in math "With"
,		** 1011
basic/posets	Partial orders	Demonstration to a consent
\pset		Power set (latenative to powerset
\lowerbounds	lowerbounds	
\upperbounds	upperbounds	
\posMin	Min	
\posleq	≚ ≿ ₽	
\posgeq	<u>~</u>	
\posA	· ·	
\posAleq	<u></u> Min	Minimal elements
\posAMin \posAmin	$\min_{\preceq_{\mathcal{P}}}$	The least element
\posAmax	$\min_{\preceq_{\mathcal{P}}}$	The least element The least element
\posB	$\max_{\preceq_{\mathcal{P}}}$	The least element
\posBleq	Q 2	
\posC	$\stackrel{\preceq_{\mathcal{Q}}}{\mathcal{R}}$	
\lfp	lfp	Least fixed point
\prefixed	prefixed	prefixed points
\CPOs	CPOs	prenxed points
\CPO	CPO CPO	
\DCPOs	DCPOs	
\DCPO	DCPO	
\antichains	A	
anoronario	, ,	The antichains sets of P are $A(P)$
		The antichains sets of P are \$\antichains(P)\$
\upsets	U	THE distribution book of I die was distributed to the
\aps 0 0 0	· ·	The upper sets of \mathcal{P} are $U\mathcal{P}$
		The upper sets of \$\posA\$ are \$\upsets\posA\$
\downsets	D	
(3.2 1.2.2 2 2 2		The down sets of \mathcal{P} are $D\mathcal{P}$
		The down sets of \$\posA\$ are \$\downsets\posA\$
\upresleq	≾υæ	14
\upressp	UR	
\allupsets	Up	
\upit	↑	Converts to smallest upset containing the ste
\stupit	`	Strict upper closure
,	•	• •
common/probability	Probability	
\uniformdist	Uniform	Uniform distribution
measuresupport	Support	Support of a probability measure
\processes	StocProcesses	Set of stochastic processes

\backslash conditional	Conditional	Conditional distribution
,		$Conditional(\mathcal{B};\mathcal{A})$ is the set of conditional distribu-
		tions
		<pre>\$\conditional(\setB;\setA)\$ is the set of</pre>
		conditional distributions
\finaldist	Final	Stationary distribution of a stochastic process.
\measureSp	meas	Measure space.
		$meas(\mathcal{X}, \Sigma, \mu)$ is a measure space.
		<pre>\$\measureSp(\aset{X},\Sigma,\mu)\$ is a measure</pre>
		space.
\probSp	prob	Probability space.
1.6	•	$\operatorname{prob}(\mathfrak{X},\Sigma,\mu)$ is a probability space.
		<pre>\$\probSp(\aset{X},\Sigma,\mu)\$ is a probability</pre>
		space.
measures	Measures	Set of probability measures on a set.
Mountain	1110000. 02	Try $\mu^{\mathcal{X}} \in Measures(\mathcal{X})$
		· · ·
\	δ	$\label{eq:try mu} $\operatorname{Try } In \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
\dirac	0	!
	D 1 11	!
common/robotics	Robotics	T 1 - 1 11 - 6
obsip	m	Inner product bilinear form.
obsosp	O	Observation output space.
\dummySensel	S	
\pose	q	Robot pose $q = (t, \mathbf{R}) \in \mathcal{Q} \subset SE(3)$.
\posesp	Q	Pose space, subgroup of $SE(3)$.
\posespAlg	q	Pose space algebra.
\setminus confspace	Q	Robot configuration space
\pos	t	Position in the world frame.
\posEl	t	Position in the world frame (element)
\rotm	\mathbf{R}	Rotation matrix representing orientation in the world fra
rotme	R	Element of rotation matrix
lvel	$oldsymbol{v}$	Linear velocity
lvele	v	Linear velocity (element)
avel	ω	Angular velocity (as vector)
avele	ω	Angular velocity (element)
avels	ω	Angular velocity in 2D (scalar)
avelse	$\hat{oldsymbol{\omega}}$	Angular velocity (as skew-symmetric matrix)
\njoints	n_j	Number of joints in a robot
\attitude	$\overset{n_j}{\mathbf{R}}$	rumber of joines in a root.
\position	t	
bosition	·	
common/robotics/fieldsmapler	Field samplers	
\field	\mathcal{F}	Field sampled by the field sensor.
fieldpos	\boldsymbol{z}	Generic position in the world.
\fieldpose	z	Generic position in the world.
\worldSp	Maps	F
(
common/robotics/old	Deprecated	
\wshape	s	
\wpose	p	
\worldsp	Maps	
`	·	

\wshapesp	Shapes	
common/robotics/maps	$New\ stuff$	
\mshape	s	Map shape.
\mpose	$oldsymbol{p}$	Map pose.
\mshapesp	Shapes	Shape space.
\mapsp	Maps	Maps set Maps = Shapes \times SE(3).
common/statistics	Misc statistics	
\stddev	std	Standard deviation
\var	var	Variance
\ex	$\mathbb E$	Expected value
\corr	corr	
\cov	cov	covariance
\spearcorr	spear	Spearman correlation between two variables
\mutualinf	${\cal I}$	Mutual information
\entr	${\cal H}$	Entropy
varinf	\mathcal{V}	Variation of information
\varinfn	\mathcal{V}_1	Normalized variation of information
	, 1	Pushed forward notation
\distributedAs	\sim	Distributed as
(distributed distributed distr		Distributed as
common/statistics/sorting	Sorting vectors	
\order	order	Order (or rank) of the elements of a vector.
\sorted	sorted	Sorted version of a vector
\differ	differ	
\sortedSeq	sortedSeq	
\weaksortedSeq	weaksortedSeq	
common/systems	Dynamical systems	
\CTI	CTI	Continuous-time time-invariant systems.
\DTI	DTI	Discrete-time time-invariant systems.
\DDTI	DDTI	Deterministic discrete-time time-invariant systems.
\DCTI	CDTI	Deterministic continuous-time time-invariant systems.
\DFSTI	DFSTI	Discrete-time finite-state-space time-invariant systems.
\CFSTI	CFSTI	Continuous-time finite-state-space time-invariant systems
\DFSTIGO	DFSTIGO	Discrete-time finite-state-space time-invariant systems wi
\CLTI	CLTI	Continuous-time linear time-invariant systems
\CLTIG	CLTIG	Continuous-time linear time-invariant systems with Gaus
\DLTI	DLTI	Discrete-time linear time-invariant systems
\DSMPLTI	DSMPLTI	Discrete-time stable minimum-phase linear time-invarian
\DLTIG	DLTIG	Discrete-time linear time-invariant systems with Gaussia
\laptrans	${\cal L}$	Laplace transform
\impulseresp	ImpulseResp	Impulse response of a system
/Imparbor cop	TF	Transfer function
\transferfunc	• • • • • • • • • • • • • • • • • • • •	1
\transferfunc		
. ' -	Basic typography	All acronyms; good for text as well as math mode. Use I
\transferfunc Otypography		

		Tensor element
Otypography/matrices	Matrices and matrix	elements
		A matrix
ackslash		The elements of a matrix
Otypography/sets	Sets	
		A set
		Fonts for a set which is a group.
		A set X , a group X, G,
		A set \$\aset{X}\$, a group \$\agroup{X}\$,
		<pre>\$\agroup{G}\$\$, \dots</pre>
$\aggreen aseq{}$		Formatting for sequences
		Formatting for one element in a sequence
\dummyIndices		
(1.5.3)		
Otypography/misc	Everything else	
		How words should look like in formulas.
		Consider the operator scale,
		Consider the operator \$\aword{scale}\$, \dots
$\mathbf{vmath}\{\ldots\}$		How words should appear in math mode.
$\setminus codefunc{}$		Code functions
		The function select
		The function \codefunc{select}
$\strut_{swpackage}{\ldots}$		Name of software packages
		The package Procgraph, ZMQ, Unix.
		The package \swpackage{Procgraph},
		\swpackage{ZMQ}, \swpackage{Unix} .