bootstrapping/	'agents	Aaents	and	tasks

\ 2 mCn	Agonto	
\agSp	Agents	A 11
\agSpYU	$Agents(\mathcal{Y};\mathcal{U})$	All agents with given formats.
\agA	${\cal A}$	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 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	$success_\mathcal{A}^\mathcal{G}$	Success set for the agent \mathcal{A} and goal \mathcal{G} .
\agRep	m	Agent representation
\agRepSp	\mathfrak{M}	Agent's model space
\agNuis	$\mathrm{G}_{\mathcal{A}}$	
\agNuisComp	G_{A}^{\perp}	Complement of $G_{\mathcal{A}}$.
\agNuisObs	$G_{\mathcal{J}}^{\mathcal{G}}$	
\agNuisCmd	$\mathrm{G}^{\widehat{\mathcal{U}}}_{A}$	
\agbbClass	C_A^{\sim}	
\agbbClCore	C_A^0	
\agGoal	$egin{array}{c} \mathrm{G}_{\mathcal{A}} \ \mathrm{G}_{\mathcal{A}}^{\downarrow} \ \mathrm{G}_{\mathcal{A}}^{\circlearrowleft} \ \mathrm{G}_{\mathcal{A}}^{\circlearrowleft} \ \mathrm{G}_{\mathcal{A}}^{\circlearrowleft} \ \mathcal{C}_{\mathcal{A}} \ \mathcal{C}_{\mathcal{A}}^{\circlearrowleft} \ \mathcal{G}_{\mathcal{A}}^{\circlearrowleft} \ \mathcal{G}_{\mathcal{A}}^{} \ \mathcal{G}_{\mathcal{A}}^{\circlearrowleft} \ G$	The agent's goal (a subset of $StocProcesses(\mathcal{Y} \times \mathcal{U}))$

articles/bds BDS report

articles

\BDSnk	BDS(n;k)	
\BDSSk	$CBDS(\mathcal{S};k)$	
bgBDSfamily	BDS	Family of BDS sensors
bgCBDSfamily	CBDS	Family of BDS sensors
\bds	BDS	Bilinear dynamics system
\BDS	BDS	
\cbds	CBDS	Continuous-space bilinear dynamics system
\CBDS	CBDS	
$\operatorname{\mathtt{igwedge}}$		omitted sum
$\backslash \mathtt{omsumb} \{ \ldots, \ldots \}$		omitted sum (two arguments)
\TT	Т	Learned tensor
\TTe	Т	?
\TP	P	
\TPe	P	
\TU	U	Learned tensor
\TUe	U	Learned tensor
\TM	M	Bilinear tensor in BDS dynamics
\TMe	M	Bilinear tensor in BDS dynamics
\TN	N	Bilinear tensor in BDS dynamics
\TNe	N	Bilinear tensor in BDS dynamics
\Tcov	Р	Covariance of y .
\Tcove	Р	Covariance of y .

\Tucov	Q	Covariance of y .
\Tucove	Q	Covariance of y .
\discInt	\dot{T}	Discretization interval
\nearavg	$\overline{\mu}$	Average nearness
(<i>r</i> -	
articles/bgds $BGDS\ r$	eport	
\bgds	BGDS	Bilinear gradient dynamics system
\BGDS	BGDS	
\bgCmd	\boldsymbol{u}	commands
\bgCmdH	$\boldsymbol{u}^{\mathbb{T}}$	commands history
\bgCmdSp	\mathcal{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	g	Transformation of the commands
\bgCmdTrSp	$G^{\mathcal{U}}$	
\bg0bsTr	$\overset{\circ}{h}$	Transformation of the observations
\bg0bsTrSp	$G^{\mathcal{Y}}$	
\bgSamplingGroup	Sampling	Groups of sampling operations
\bgCalibration	Calib	Calibration operation
\bgBDSagent	A_{BDS}	The BDS agent
\bgBGDSagent	A_{BGDS}	The BGDS agent The BGDS agent
\bgPopCode	pop	Popoulation code
\bgRankCode	rankcode	Rank code
\bgRangeFamily	RF	Family of range-finders models
\bgFields	C	ranniy of range iniders models
\bgCmdConstraints	$\Omega_{m{u}}$	
\bgPopK	ψ	
/pgr obix	Ψ	
articles/bgds/old BG	DS report	
state	\overline{x}	Generic underlying state.
\stateSp	\mathfrak{X}	Generic underlying state space.
\detecte	d	Detector
$\sum_{i=1}^{n} s_i = 1$		Quantity with mean normalized.
\dist	σ	Distance to obstacle
distn	σ^*	Distance to obstacle, mean normalized.
rfnl	β	Nonlinear function in range-finder tensors.
\near	$\overset{r}{\mu}$	Nearness
\lum	$\stackrel{r}{y}$	Luminance
\lumn	y^*	Luminance, mean normalized
\sptran	$\stackrel{g}{\ell}$	Sensor pose (translation)
\sprot	$\ell_{ heta}$	Sensor pose (rotation)
\slvel	$oldsymbol{v^s}$	Sensor linear velocity (when off axis)
/~~~~	~	(mion on wait)

\savel	ω^s	Sensor angular velocity (when off axis)
\TX	X	Generic metric
\TXe	X	Generic metric
\OS	S	$S = s \times \nabla$
\convf	\widetilde{f}_*	Indicates the convolution with a kernel f .
\my	$\stackrel{j}{m}$	Metric on the tangent space of $y(s)$.
		server of the things of g(s).
\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 $p_{\rm T}$.
	- J (F 1)	
articles/bgds/logical (Gradient dynamics	
\obslsp	Z	Observation logical space
\obsl	z	Observations in logical space
\obsle	z	Observation logical space element
\xtos	φ	Mapping between S and Z .
\jac	J	Jacobian of φ
\jace	J	An element of the Jacobian of φ .
\mz	μ	Metric on the tangent space of $z(x)$.
\mmu	M	Metric for the commands u .
articles/bgds/logical/g	grads Gradient dynamics	
Tzgd	L	z gradient dynamics
Tzgde	L	z gradient dynamics (element)
Tzgl	М	z gradient learned tensor
Tzgle	M	z gradient learned tensor (element)
Tzgcov	S	z gradient covariance
Tzgcove	S	z gradient covariance (element)
Tzad	E	Affine part of dynamics.
Tzade	E	Affine part of dynamics (element)
Tzal	F	Learned affine part of dynamics.
\Tzale	F	Learned affine part of dynamics (element)
articles/bgds/tensors I	G G	y gradient dynamics
\Tygd \Tygde	G	y gradient dynamics y gradient dynamics (element)
	H	y gradient dynamics (element) y gradient learned tensor
\Tygl	H	y gradient learned tensor (element)
\Tygle	R	y gradient covariance
\Tygcov \Tygcove	R	y gradient covariance y gradient covariance (element)
\Tyad	В	Affine part of dynamics.
	В	Affine part of dynamics. Affine part of dynamics (element)
\Tyade		Learned affine part of dynamics.
\Tyal	C C	Learned affine part of dynamics. Learned affine part of dynamics (element)
\Tyale	C	Dearned annie part or dynamics (element)
articles/bgds/models/de	eprecated Definition of r	$andom\ models$
\bgTime	T	Time axis
\bgRS	$\overset{\cdot \cdot \cdot}{D}$	Random model
\bgRSSp	D	All models
/ OI		

\bgRSinput	a	Input signal
\bgRSinputSp	$\mathcal A$	
\bgRSinputH	$\boldsymbol{a}^{\mathbb{T}}$	History of input signal
\bgRSoutput	\boldsymbol{b}	
\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	\boldsymbol{y}	observations
\bg0bsH	$\boldsymbol{y}^{\mathbb{T}}$	observations history
\bg0bsSp	y	observation space

articles/camera Camera paper

articles/camera Cumera	paper	
\rank	order	
\place	place	
\ff	f	Distance to similarity function
\Sany	\mathfrak{M}	Generic hypersphere
\targetSp	\mathfrak{M}	Target manifold
\Ssubset	M	A subset of \mathcal{M} XXX
\infr	infr	Informative radius
\ffr	infr(f)	Informative radius of f
$ackslash ext{distradius}$	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	$e_{\sf iso}$	
\symError	e_{sym}	
\relError	e_{r}	
$\backslash \texttt{scaledRelError}$	$e_{\sf sr}$	
\angcorr	$ ho_{ heta}$	
\spearperf	$ ho_{ m sp}$	Spearman performance measure
\spearperfn	$ ho_{ m sp}^*$	Normalized Spearman performance measure
\dirset	S	Set of directions
\dirmat	\mathbf{S}	Directions stacked in a matrix
\matX	\mathbf{X}	
\matI	I	
arot	\mathbf{X}	
cosmat	\mathbf{C}	
cosmatij	C_{ij}	
distmat	D	
distmatij	D_{ij}	
simmat	Y	Similarity matrix
simmatij	\mathbf{Y}_{ij}	
simmatii	\mathbf{Y}_{ii}	
\simmatkl	Y_{kl}	
algorparam	$\frac{\gamma}{2}$	
shannon	Н	
\fov	FOV	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 reg	nart	
\ddsres	•	Resolution of the sensor in a DDS.
\ddsies \ddsarea	$ ho \ \mathcal{S} $	Area of the manifold S .
\ddsbound	$d_{ m max}$	Bound on the maximum diffeomorphism in a DDS.
\DDS	$a_{ m max}$ DDS	Bound on the maximum unicomorphism in a bbs.
\dds	DDS	
\ddsl	DDS	
\DDSsu	$DDSL$ $DDS(\mathcal{S};\mathcal{U})$	
\DDSLsvu	$DDSL(\mathcal{S},\mathcal{V};\mathcal{U})$	
\bgDDSfamily	DDSL $(\mathcal{O}, \mathcal{V}, \alpha)$	
\bgDDS1amily \bgDDSLfamily	DDSL	
\diffeoURL	???	Model
\cmdAlphabet	U	Model
\ncmdwords	u U	Number of commands words.
\obsspD	$d^{\mathcal{S}}$	Metric on \mathcal{S} .
\diffId	$\operatorname{Id}_\mathcal{S}$	Identity diffeomorphisms.
\diffU	Γ	Uncertainty of estimated diffeomorphism.
\diffDist	d^{Diff}	Distance between two diffeomorphism.
\cmdDist	$\mathcal{D}_{\mathrm{cmd}}$	Distance between two commands.
\cmdDist	$\mathcal{A}_{\mathrm{cmd}}$	Anti-distance between two commands.
\images	$\mathbb{F}(\mathcal{S})$	min-distance between two commands.
\obspsV	\mathcal{V}	viewport
\ddsfov	Ÿ	viewport
\obspsVunpred	$\gamma_{\overline{ m pr}}$	undpredictable part
\obspsVpred	$\gamma_{ m pr}$	predictable part
\obspsVunpredt	$\overline{\mathcal{V}_t^{\overline{\mathrm{pr}}}}$	undpredictable part at time t
\obsps\unpredt	$\stackrel{\scriptstyle v_t}{\scriptstyle {\mathcal V}_t^{ m pr}}$	predictable part at time t
\ddsctod	${}^{ m v}{}_t$ C_TO_DIFF	predictable part at time t
\ddsctod \ddsste		State of a DDS (element)
\ddsste \ddsst	$egin{array}{c} x \ oldsymbol{x} \end{array}$	State of a DDS (element) State of a DDS
\dasst	\boldsymbol{x}	State of a DDS
articles/deepdyn <i>Lea</i>	arning of latent/deep dyna	mics
\ldmap	γ	Map from latent state to instantaneous dynamics
\hclass	${\cal H}$	Hidden class
\iclass	${\cal M}$	Instantnaeous class
articles/despl Paral	lel learning naper	
	ver rearring paper	
\desplStats	Stats	
\desplistats \desplistats	IStats	
\desplibata \desplibata	Data	
\desp1IData	IData	
\desplibata \desplModels	Models	
\desplimodels \desplimodels	IModels	
\desplinedels \desplinedels	learn	
\despliearn \desplilearn	ilearn	
/200bitionin		

\desplfilter filter \desplfmodel fm \desplistats istats \desplglue glue \desplmglue mglue \desplstats stats \desplmerge merge \desplInter Interval Ι \patternA Slice - Stats - Merge\patternB Split - Stats - GlueFilter-Learn-Glue\patternC \patternD Recursive-LearnA2\proto \slicelen slicelen \njobslearn n_{learn} \njobsmerge $n_{\rm merge}$ \njobstotal $n_{\rm jobs}$

articles/compmake Compmake

\Compmake Compmake parmake sgemake

articles/dptr1 Technical report for diffeoplanning

articles/dptr1/spaces spaces

SetImages

Ulm \SetUImages \genericdist{...,...} \genericudist{...,...} \obsstart $oldsymbol{y}_{ ext{start}}$ \obsgoal $oldsymbol{y}_\circ$ \SetPlans Plans Plans \planSp RedPlans reduced plans \redplans \plan a generic plan p\plang true plan p_{\circ} The solution found \planf p^{\star} Ø \zeroplan Scalar uncertainty \obsu \boldsymbol{z} \obsue Scalar uncertainty z\sarea Aarea around pixel s \dd Generic diffeomorphisms φ \dde Generic diffeomorphisms φ \ddu its uncertaint γ \ddue its uncertaint γ \udiffSp **UDiff**

articles/dptr1/structure Diffeo structure

\dscommute commute \dsinverse inverse

```
\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
articles/dptr1/distances
                                    \frac{d_{L_1}^{\operatorname{Diff}(\mathcal{S})}}{d_{L_1}^{\operatorname{UDiff}(\mathcal{S})}}
\frac{d_{L_1}^{\operatorname{Diff}(\mathcal{S})}}{d_{L_1}^{\mathcal{S}}}
\dDiffLone
\dUDiffLone
\dobsps
\dImL{...}
                                    \begin{array}{c} d_{L_1}^{\rm lm} \\ d_{L_2}^{\rm lm} \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}}
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\algocover
\algoplanreduce
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                                    bidirectional-search
\algobidirectional
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\dubinsys
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                                    Orbit camera \\
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\distthres
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\btrue
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\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

$\backslash \mathtt{maxdis}$	d_g	goal threshold	
\impred	pred	Image prediction	
\plA	RLrl		
	1 neuromorphic control	Clip up to some boundary	
\maxu	b	Cup up to some boundary	
\clipu			
, _	sat_b		
\gain \settime	κ T		
\controllerLast	$\overset{^{\mathrm{II}}}{\mathrm{C1}}$	Uses last event	
\controllerTI	C1	Time integrale	
\controllerTS	C2 C3	time integrale time smoothed	
\controllerTN	C3 C4	Time neural	
Controllerin	C4	Time neural	
articles/optcam opt	imal sensor		
\ds	Δ_s	Spatial sampling	
\dt	Δ_t	Temporal sampling	
\db	Δ_b	Brightness threshold	
dvsth	Δ_b°	Threshold	
\camexp	$\mathbf{E}\mathbf{X}$	Exposure	
\mseps	MSE_{ps}	periodic sampling	
\mseeb	MSE_{eb}^{PS}	MSE event based	
bwps	$\mathrm{BW}_{\mathrm{ps}}$	bandwidth periodic sampling	
\bweb	$\mathrm{BW}_\mathrm{eb}^\mathrm{ps}$	bandwidth event based	
\ori	α		
,			
articles/estgroups	Estimation with symm	tetries	
ontialog/ogtenoung	/atata Ctata		
articles/estgroups		C+-+-	
\esSt	$oldsymbol{x}$	State	
\esStDim	$n \sim$	Dimension of state space	
\esStSp	\mathcal{X}_{r}	State space	
\esStDist	$\mu^{\mathfrak{X}}_{m{x}}$	Prior for state	
articles/estgroups,	observations Observ	vations	
\es0bs	y	Observations	
\esObsDim	m	Observations dimensions	
\es0bsSp	y	Observations space	
\es0bsMap	$\overset{\circ}{h}$	Observation map	
, ±		y = nh(x)	
		\$\esObs = \esNuis \esObsMap(\esSt)\$	
		, , , , , , , , , , , , , , , , , , , ,	
	/nuisances Nuisances		
\esNuis	n	Nuisance	
\esNuisSp	N	Nuisance group	
$\backslash esNuisDist$	$\mu_{m{n}}^{ ext{N}}$	Nuisance distribution	
articles/estgroups/estimators Estimators, risks and performances			
\esEst		rs, risks and performances Estimator	
\esEstSp	$rac{m}{\mathcal{M}}$	Estimator Set	
/esrs mh	JYL	Patimator act	

\	24*	
\esEstSpOpt	\mathcal{M}^{\star}	Optimal subset of estimators
\esRisk	$rac{e}{\mathbf{c}}$	Risk function
\esRiskSp	3	Risk space Pick distribution for given estimator
	J	Risk distribution for given estimator Partial order defining preference on distributions
\esRiskDistPO	$\overset{\preceq}{\mathcal{P}}$	Partial order defining preference on distributions.
\esProb	Ρ	Estimation problem
articles/estgroups/sym	metries Symmetries in the	e problem
\esStAb	α	Abstract state
\esStAbSp	$\mathcal A$	Abstract space
\esRep	arphi	Representation
		$\varphi: x \mapsto \alpha$.
1 ~ ~ ~		\$\esRep: \esSt \mapsto \esStAb\$.
\esStSym	A	Group of symmetries of the state
\esObsSym	В	Group of symmetries of the observation
\esRiskSym	С	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	
\dprobsp	dp	Design problem
\dpseries	series	2000- F
\dppar	par	
\dploop	loop	
\cdprobsp	CDP	
\cdprob	cdp	Design problem
\dpatoms	atoms	Atoms of a cdp
\resMin	$\operatorname{Min}_{\leq_{\mathcal{R}}}$	
,	_	
articles/groupspectral		
\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 group action.
\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 prope	erties
\gsdContravariant	$\xrightarrow{-1}$	Contravariance
\gsdInvariant	$\xrightarrow{0}$	Invariance
10		

\gsdEquivariant	$\stackrel{Id}{\longrightarrow}$	Equivariance
\gsdIntroduces	*	Nuisance introduced
\gsdUnstructured	$\stackrel{\sim}{\longrightarrow}$	Unstructured result
/gsdollstructured	 7	Onstructured result
articles/invariances In	variances	
$\rdot rndual {\dots}$		Dual of a representation nuisance
\brel	\leq_B	Simulation partial order
\bsim	\sim_B	Simulation relation
articles/jbds Symbols in	atroduced in JBDS	
\veh	В	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	${\mathcal F}$	Field sensed by field sampler
\envob	$\partial \mathcal{O}$	Obstacles boundaries
obspsDiff	$\mathcal{S}^{ ext{dif}}$	
\obspsNotDiff	$\mathcal{S}^{\overline{ ext{dif}}}$	
\sic	VS	ideal camera
\sir	RF	ideal range finder
\sif	FS	ideal field sampler
\sicV	$VS(\mathcal{V})$	ideal camera with viewport
\sirV	$\mathrm{RF}(\mathcal{V})$	ideal range finder with viewport
\sifV	FS(V)	ideal field sampler with viewport
	$\mathbf{r}_{\mathcal{S}(V)}$	Zero order hold
\2011[]		Zero order noid
articles/jbds/misc Used		
\ygneig	N	A neighborhood of y_{\circ} .
orticlos/ibds/robots		
articles/jbds/robots	Robots	The set of all robots
\allrobots	ISV	
\vehRob	IŜV IŜV	Idealized Simple Vehicles
\vehRobNuis		Vehicle robots with nuisances
\robVeh	ISV	
articles/optbody Optime	al design of body and mine	d
\MA	A	
\MB	В	
\MC	${f C}$	
MG	\mathbf{G}	
\MH	Н	
\ML	\mathbf{L}	
\MQ	${f Q}$	
MP	P	
MS	\mathbf{S}	
MSigma	$oldsymbol{\Sigma}$	

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\MV	\mathbf{V}	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\MW	\mathbf{W}	
SE E Stored energy F Trajectory efficiency ratio F HP Θ Heading precision F Number of pixels F articles/1508-rafe Function, implementation, etc. F Huntion space F function F Function space F function F f	\SP	$P_{ m s}$	Sensing power
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\AP	$P_{\mathbf{a}}$	Actuation power
Heading precision Number of pixels	\SE	E	Stored energy
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\ER	r	Trajectory efficiency ratio
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	\HP	Θ	Heading precision
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\np	n	Number of pixels
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\leq_{\mathcal{F}}$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		Function
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$, ' = =		
Paramsp Parameter space res	, \		
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$, _		Resources space
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	` =	$\leq \tau$	Trade-off space
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rtoapp Ψ articles/1508-ragh Resource Allocation problem \clatency latency \cperiod period articles/1508-ragh/rgraph Resource Graph \rN rN A resource graph's vertices \rE rE A resource graph's edges \rG rG A resource graph \rGsp RG Space of resource graphs \rn rn A resource node	, –		
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\clatency \cperiod \period \pe	\rtoapp	Ψ	
\clatency \cperiod \period \pe	articles/1508-ragh R	Resource Allocation problem	
\cperiod \text{period} \text{articles/1508-ragh/rgraph } \text{Resource Graph} \text{rN} \text{rN} \text{rN} \text{A resource graph's vertices} \text{rE} \text{rE} \text{rG} \text{rG} \text{rG} \text{A resource graph} \text{rGsp} \text{RG} \text{Space of resource graphs} \text{A resource node} \text{A resource node} \text{RG} \text{Space of resource node} \text{RG} \text{Space node} \text{RG} \text{RSOURCE node} \text{RSOURCE node} \text{RSOURCE node} \text{RSOURCE node} \text{RSOURCE node} \q			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$,		
\r\ r\ r\ A resource graph's vertices \rE rE A resource graph's edges \r\ r\ G r\ R\ A resource graph's edges \r\ r\ A resource graph \r\ r\ A resource graph \r\ A resource graph \r\ A resource graph \r\ A resource graphs \r\ A resource node	(1		
\rE rE A resource graph's edges \rG rG A resource graph \rGsp RG Space of resource graphs \rn rn A resource node			
\rG rG A resource graph \rGsp RG Space of resource graphs \rn rn A resource node	*		
\rdsp RG Space of resource graphs \rn rn A resource node	*		0 1 0
\rn A resource node	*		
	, ' -		
\rnops rn.capacity A resource's capacity	. 1		
	\rnops	rn.capacity	A resource's capacity

1		
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	$re_1.latency$	
\r eAbandwidth	$re_1.bandwidth$	
\reBbandwidth	$re_2.bandwidth$	
\reiint	re.int1	Output interface (first node)
\reoint	re.int2	Input interface (second node)
	raph Computation Graph	
\cG	cG	A computationg 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
$\backslash cnA$	cn_1	
\cnB	cn_2	
\cnops	cn.ops	A computation node's ops
\dotops	.ops	
$\backslash \mathtt{cnAops}$	$cn_1.ops$	
\cnBops	$cn_2.ops$	
\cce	ce	A computation edge
\ceA	ce_1	A computation edge
\ceB	ce_2	A computation edge
dotsize	.size	
cesize	ce.size	Signal size (bytes)
ceAsize	$ce_1.size$	
ceBsize	ce_2 .size	
articles/1508-ragh/li		
\PL	PLinks	Physical links
\pl	pl	Physical link
\pplA	pl_1	plA conflicts
\plAlatency	$pl_1.latency$	
$\place{plabandwidth}$	$pl_1.bandwidth$	
\pllatency	pl.latency	
\plbandwidth	pl.bandwidth	
articles/1508-ragh/al	locations Allocations	
as	as	An assignment
\asm	as.m	The momomorphism
\		

\asmn	$as.m_N$	
\asme	as.m $_E$	
\asmni	$as.m_N^{-1}$	
\asmei	$as.m_E^{\overset{r}}{\overset{r}{\overset{r}{\overset{r}{\overset{r}}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}}{\overset{r}{\overset{r}}{\overset{r}{\overset{r}{\overset{r}{\overset{r}}{\overset{r}}{\overset{r}}{\overset{r}}{\overset{r}}{\overset{r}}{\overset{r}}{\overset{r}}{\overset{r}}}{\overset{r}}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{\overset{r}{}}}}}{\overset{r}{\overset{r}}{}}}{\overset{r}}}{}}{}}{}}{}}}}{}}{}}}}}$	
\asmi	$as.m^{^L}$	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	•
\ftor	$\overset{\cdot}{h}$	
\ftoR	H	
Rcomp	R +	
\dpvars	$\overline{\mathcal{V}}$	
\benchmark	benchmark	
\deploy	deploy	
\utypes	\mathbf{U}	Universe of types
\app	арр	V F
appsp	Apps	
\ghom	h	
ghomv	h_V	
ghome	h_E	
ghomsp	Hom	Homomorphism space of two gaphs
		Hom(cG, rG)
		<pre>\$\ghomsp(\cG,\rG)\$</pre>
\mydash	_	
\rgcmd	driver-cmd	
rgobs	driver-obs	
\cgcmd	output	
cgobs	input	
articles/soattotheory S	Symbols used by Soatto	
\scene	ξ	scene
\representation	$\hat{\xi}$	representation
\minrep	ξ ξ ξ	minimal representation
feature	ϕ	feature
maxinv	ϕ^{\wedge}	maximal invariant feature
suffstat	ϕ^ee	maximal invariant feature
\image	${\mathcal I}$	image
$\backslash {\tt addnoise}$	n	additive noise
	_	

\scene	ξ	scene
\representation	$\hat{\xi}$	representation
\minrep	$\hat{\xi}^{ee}$	minimal representation
\feature	ϕ	feature
\maxinv	ϕ^{\wedge}	maximal invariant feature
\suffstat	ϕ^{\vee}	maximal invariant feature
\image	${\cal I}$	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
lightfield	${\cal L}$	all possible images generated by a scene
complex	H	Complexity measure
\actinfo	${\cal H}$	Actionable information
covdet	ψ	Covariant detector

articles/soattotheory/mseerep msee report

	Domain sampling operator (subset)
$ \setminus nusample{} $	Domain sampling operator (subset)

```
\nuvdisc{...}
                                                            Value Discretization operator (subset)
\mathbb{nusmooth}\{\ldots\}
                                                            Smoothing operator (kernel)
\nucens{...}
                                                            Censoring operator (field of view)
\nuoccl{...}
                                                            Occlsions
\imform
\contrast
                                f
articles/thesis Special symbols for thesis
labelrefinement
                                ref
                                                            Indicates a refinement
\pchomeoR
                                PieceHomeo(\mathbb{R})
\dianode{...}
                                                            used in properties1.dot
\dim\{\ldots\}
\bitZ
                                П
                                •
\bit0
                                \{\Box,\boxdot\}^{\mathbb{N}}
                                                            Set of infinite binary strings
\infbinstrings
\chineseClose
                                (nosummary)
                                                            The Chinese character corresponding to "close" or "near".
                                y^i, y^j
\twosignals
\twosignalsa
                                y^i
                                y^j
\twosignalsb
twosignalscolon
                                y^i; y^j
\semrelorder
                                                            Order of a generic semantic relations
                                m
\infinit
                                d
                                                            Infinitesimal
                                \mathcal{R}
                                                            A generic semantic relation.
genericsemrel
                                Sym(\mathcal{R})
                                                            Symmetries of the semantic relation
\gensemrelsym
\genericsimilarity
                                R
                                                            A generic similarity measure.
obsecdf
                                c
                                                            CDF of one sensel
cmdreverse
                                                            The map from a command to its reverse.
                                \rho
cmdopt
                                oldsymbol{u}^{\star}
                                                            The optimal command
                                u^{\mathsf{nop}}
cmdnop
                                                            Command corresponding to "resting".
                                                            Reward function
                                R
\rew
\placeneig
                                Neighbors
\genericrel
                                                            Generic relation
\notgenericrel
articles/thesis/longexample Long example
\CalibA
                                CalibA
CalibB
                                CalibB
\Smoothkernel
                                k
Smooth
                                \mathsf{Smooth}_k
\BGDSAg
                                BGDSagent
                                BGDSagentS
\BGDSAgS
                                \mathcal{D}(\mathsf{Im}(\mathcal{S});\mathcal{U})
\DImagesU
                                \mathfrak{D}(\mathsf{Im}(\mathcal{S}); \mathbb{R}^{n_u})
\DImagesR
\ABehavior
                                behavior
                                \mathcal{D}(\mathsf{Im}(\mathbb{S}^2);\mathcal{U})
\DImagesSphU
hobs
                                \boldsymbol{x}
\hobse
                                x
bound
                                M
common Common symbols to all papers
```

common/abbreviations (Other abbrevations	
\setA	\mathcal{A}	
\setB	B	
\setC	e	
. \	u	
\setU		
\setM	\mathfrak{M}	
\setY	y	
\setX	\mathfrak{X}	
\setZ	\mathcal{Z}	
\setS	S	
\grG	G	
\grH	H	
\grK	K	
\grN	N	
/0		
common/inv-abbreviation	ons	
\sqa	a	
\sqae	a	
\sqb	\boldsymbol{b}	
\sqbe	b	
\sqc	c	
\sqce	c	
(- 1 - 1	-	
common/acronyms Acrony	rms	
common/algebra Algebra		
\ones	1	
\		
\idMat	I	Identity matrix
\matTrace	Tr	Trace of a matrix.
\matTrace \angleFun		Trace of a matrix. Angle function
\matTrace	Tr	Trace of a matrix.
\matTrace \angleFun \flatten	Tr ∠ vec	Trace of a matrix. Angle function
\matTrace \angleFun \flatten \common/basic Basic stuff	Tr ∠ vec	Trace of a matrix. Angle function Matrix-to-vector rearrangement.
\matTrace \angleFun \flatten common/basic Basic stuff	Tr ∠ vec	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many)
\matTrace \angleFun \flatten \common/basic Basic stuff	Tr ∠ vec	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field.
\matTrace \angleFun \flatten common/basic Basic stuff	Tr ∠ vec	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field.
\matTrace \angleFun \flatten common/basic Basic stuff	Tr ∠ vec	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field.
\matTrace \angleFun \flatten common/basic Basic stuff \setfun \algfield	Tr ∠ vec ⇒ field	Trace of a matrix. Angle function $ \begin{aligned} &\text{Matrix-to-vector rearrangement.} \end{aligned} $ Symbol for set functions (one-to-many) $ \begin{aligned} &\text{Field.} \end{aligned} $ $ \begin{aligned} &\text{field}(\mathcal{X}, +, \times) \text{ is an algebraic field.} \\ &\text{\$\algfield}(\text{\aset}\{X\}, +, \text{\times})\$ \text{ is an algebraic field.} \end{aligned} $
\matTrace \angleFun \flatten common/basic Basic stuff	Tr ∠ vec	Trace of a matrix. Angle function $ \begin{aligned} &\text{Matrix-to-vector rearrangement.} \end{aligned} $ Symbol for set functions (one-to-many) $ \begin{aligned} &\text{Field.} \\ &\text{field}(\mathcal{X}, +, \times) \text{ is an algebraic field.} \\ &\text{\$\algfield}(\text{\aset}\{X\}, +, \text{\times})\$ \text{ is an algebraic field.} \end{aligned} $ A well ordered set.
\matTrace \angleFun \flatten common/basic Basic stuff \setfun \algfield	Tr ∠ vec ⇒ field	Trace of a matrix. Angle function $ \begin{aligned} &\text{Matrix-to-vector rearrangement.} \end{aligned} $ Symbol for set functions (one-to-many) $ \begin{aligned} &\text{Field.} \end{aligned} $ $ \begin{aligned} &\text{field}(\mathcal{X}, +, \times) \text{ is an algebraic field.} \\ &\text{\$\algfield}(\text{\aset}\{X\}, +, \text{\times})\$ \text{ is an algebraic field.} \end{aligned} $
\matTrace \angleFun \flatten common/basic Basic stuff \setfun \algfield	Tr ∠ vec ⇒ field	Trace of a matrix. Angle function $ \begin{aligned} &\text{Matrix-to-vector rearrangement.} \end{aligned} $ Symbol for set functions (one-to-many) $ \begin{aligned} &\text{Field.} \\ &\text{field}(\mathcal{X}, +, \times) \text{ is an algebraic field.} \\ &\text{\$\algfield}(\text{\aset}\{X\}, +, \text{\times})\$ \text{ is an algebraic field.} \\ &\text{A well ordered set.} \end{aligned} $
\matTrace \angleFun \flatten common/basic Basic stuff) \setfun \algfield \wellorder	Tr ∠ vec ⇒ field	Trace of a matrix. Angle function $ \begin{array}{l} \text{Matrix-to-vector rearrangement.} \\ \\ \text{Symbol for set functions (one-to-many)} \\ \text{Field.} \\ \\ \text{field}(\mathcal{X},+,\times) \text{ is an algebraic field.} \\ \\ \text{$\algfield(\aset{X},+,\times)$ is an algebraic field.} \\ \\ \text{A well ordered set.} \\ \\ \text{$\wellorder($\mathcal{X},\le)$ is a well-ordered set.} \\ \\ \text{$\algebraic(\aset{X},\leq)$ is a $
\matTrace \angleFun \flatten common/basic Basic stuff \setfun \algfield	Tr ∠ vec ⇒ field	Trace of a matrix. Angle function $ \begin{array}{l} \text{Matrix-to-vector rearrangement.} \\ \\ \text{Symbol for set functions (one-to-many)} \\ \text{Field.} \\ \\ \text{field}(\mathcal{X}, +, \times) \text{ is an algebraic field.} \\ \\ \text{\$\algfield}(\text{\aset}\{X\}, +, \text{\times})\$ \text{ is an algebraic field.} \\ \\ \text{A well ordered set.} \\ \\ \text{wellorder}(\mathcal{X}, \leq) \text{ is a well-ordered set.} \\ \\ \text{\$\wellorder}(\text{\aset}\{X\}, \text{\eq})\$ \text{ is a well-ordered set.} \\ \\ \text{\$\end{tabular}} \\ \text{A well ordered field.} \\ \\ \text{A well ordered field.} \\ \\ \end{array} $
\matTrace \angleFun \flatten common/basic Basic stuff) \setfun \algfield \wellorder	Tr ∠ vec ⇒ field	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field.
\matTrace \angleFun \flatten common/basic Basic stuff) \setfun \algfield \wellorder	Tr ∠ vec ⇒ field	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field.
\matTrace \angleFun \flatten common/basic Basic stuff \setfun \algfield \wellorder \orderedfield	Tr ∠ vec ⇒ field wellorder orderedfield	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field.
\matTrace \angleFun \flatten common/basic Basic stuff \setfun \algfield \wellorder \orderedfield \powerset	Tr ∠ vec r ⇒ field wellorder orderedfield powerset	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field. field($\mathcal{X}, +, \times$) is an algebraic field. \$\algfield(\aset{X},+,\times)\$ is an algebraic field. A well ordered set. wellorder(\mathcal{X}, \leq) is a well-ordered set. \$\wellorder(\aset{X},\leq)\$ is a well-ordered set. \$\wellorder(\aset{X},\leq)\$ is a well-ordered set. A well ordered field. orderedfield($\mathcal{X}, +, \times, \leq$) is a well-ordered field. \$\arrow{\text{orderedfield(\aset{X}},+,\times,\leq)}\$ is a well-ordered field. Power set of a space
\matTrace \angleFun \flatten common/basic Basic stuff \setfun \algfield \wellorder \orderedfield \powerset \supp	Tr ∠ vec r ⇒ field wellorder orderedfield powerset supp	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field. field($\mathcal{X}, +, \times$) is an algebraic field. \$\algfield(\aset{X},+,\times)\$ is an algebraic field. A well ordered set. wellorder(\mathcal{X}, \leq) is a well-ordered set. \$\wellorder(\aset{X},\leq)\$ is a well-ordered set. \$\wellorder(\aset{X},\leq)\$ is a well-ordered set. A well ordered field. orderedfield($\mathcal{X}, +, \times, \leq$) is a well-ordered field. \$\condot\orderedfield(\aset{X},+,\times,\leq)\$ is a well-ordered field. Power set of a space Support of a set
\matTrace \angleFun \flatten common/basic Basic stuff) \setfun \algfield \wellorder \orderedfield \powerset \supp \idFunc	Tr ∠ vec r ⇒ field wellorder orderedfield powerset supp Id	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field. field($\mathcal{X}, +, \times$) is an algebraic field. \$\algfield(\aset{X},+,\times)\$ is an algebraic field. A well ordered set. wellorder(\mathcal{X}, \leq) is a well-ordered set. \$\wellorder(\aset{X},\leq)\$ is a well-ordered set. \$\wellorder(\aset{X},\leq)\$ is a well-ordered set. A well ordered field. orderedfield($\mathcal{X}, +, \times, \leq$) is a well-ordered field. \$\argument{\text{ordered field}}{\text{ordered field}}{ordered
\matTrace \angleFun \flatten common/basic Basic stuff) \setfun \algfield \wellorder \orderedfield \powerset \supp \idFunc \invFunc	Tr ∠ vec r ⇒ field wellorder orderedfield powerset supp	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field. field($X, +, \times$) is an algebraic field. \$\algfield(\aset{X}, +, \times)\$ is an algebraic field. A well ordered set. wellorder(X, \le) is a well-ordered set. \$\wellorder(\aset{X}, \leq)\$ is a well-ordered set. \$\wellorder(\aset{X}, \leq)\$ is a well-ordered set. \$\delta well ordered field. orderedfield($X, +, \times, \le$) is a well-ordered field. \$\delta \text{orderedfield(\aset{X}, +, \times, \leq)}\$ is a well-ordered field. Power set of a space Support of a set The identity function Inverse function
\matTrace \angleFun \flatten common/basic Basic stuff) \setfun \algfield \wellorder \orderedfield \powerset \supp \idFunc	Tr ∠ vec r ⇒ field wellorder orderedfield powerset supp Id	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field. field($\mathcal{X}, +, \times$) is an algebraic field. \$\algfield(\aset{X},+,\times)\$ is an algebraic field. A well ordered set. wellorder(\mathcal{X}, \leq) is a well-ordered set. \$\wellorder(\aset{X},\leq)\$ is a well-ordered set. \$\wellorder(\aset{X},\leq)\$ is a well-ordered set. A well ordered field. orderedfield($\mathcal{X}, +, \times, \leq$) is a well-ordered field. \$\argument{\text{ordered field}}{\text{ordered field}}{ordered
\matTrace \angleFun \flatten common/basic Basic stuff) \setfun \algfield \wellorder \orderedfield \powerset \supp \idFunc \invFunc	Tr ∠ vec r ⇒ field wellorder orderedfield powerset supp ld1	Trace of a matrix. Angle function Matrix-to-vector rearrangement. Symbol for set functions (one-to-many) Field. field($X, +, \times$) is an algebraic field. \$\algfield(\aset{X}, +, \times)\$ is an algebraic field. A well ordered set. wellorder(X, \le) is a well-ordered set. \$\wellorder(\aset{X}, \leq)\$ is a well-ordered set. \$\wellorder(\aset{X}, \leq)\$ is a well-ordered set. \$\delta well ordered field. orderedfield($X, +, \times, \le$) is a well-ordered field. \$\delta \text{orderedfield(\aset{X}, +, \times, \leq)}\$ is a well-ordered field. Power set of a space Support of a set The identity function Inverse function

\allFuncs	Functions	All maps from a space to the other
\D \.	d	Used for integrals
\sign	sgn	Sign function
common/sequences Sequen	ces	
\sequences	Sequences	Set of sequences
contsequences	ContSequences	Set of continuous sequences
Aut	Aut	Automorphism group
$\setminus \mathtt{contFuncs}$	Continuous	Continuous functions on some metric space
		Continuous(\mathcal{A}) are all continuous functions on \mathcal{A} .
		<pre>\$\contFuncs(\setA)\$ are all continuous functions</pre>
,		on \$\setA\$.
differFuncs	Differentiable	Differentiable functions
\partitions	partitions	
mExp	mexp	Matrix exponential
\big0	\mathcal{O}	Big-O notation
\smallo	0	
$\setminus metricon\{\ldots\}$	^	
definedas	\triangleq	
crossprod	×	cross-product
\gsDom	Domain	
\gsCod	Codomain	
\interCC{,}		
\interCO{,}		
\interOC{,}		
\inter00{,}	[0 1]	
\unitInterval	[0,1]	
common/basic/logic Logic	c	
\logicAnd	\wedge	Logic "and"
\logicOr	V	Logic "or"
\logicNot	「	Logic "not"
common/simplesets $Simpl$	e sets	
\reals		Real numbers
\natnumbers	\mathbb{N}	Natural numbers
\ratnumbers	\mathbb{Q}	Rational numbers
hreals	$*\mathbb{R}$	Hyper-real numbers
\nonNegReals	\mathbb{R}^+_{ullet}	Non negative reals
\posReals	\mathbb{R}^+_\circ	Strictly positive reals
\nzReals	\mathbb{R}_{\circ}	Nonzero reals
common/blackboxes Black	boxes	4.11, 1.1
	D	A black box
\bbD	D	Inverse of a black box
		Inverse of a black box left inverse of a black box
	AllOutcomes	right inverse of a black box
\alloutcomes \alloutputs	AllOutputs	All outputs of a given system
\bbDelay	Δ	The one-step delay system.
Paneral	△	The one-such delay system.

\vertblock	I	
\bbAccum	III	Accumulator system
\inLoop	Loop	Closes the loop around a system
\idSys	IdSys	The identity system
\bbSp	D	Set of black boxes
\bbSp	D	$\mathcal{D}(\mathfrak{X}; \mathcal{Y})$ are all the black boxes from \mathcal{X} to \mathcal{Y} .
		<pre>\$\bbSp(\setX;\setY)\$ are all the black boxes</pre>
\ 1.1 776	Ф	from \$\setX\$ to \$\setY\$.
\bbFM	\mathfrak{D}_{fm}	Systems with finite memory
\bbSpInv	\mathcal{D}^{\star}	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.
		$\mathcal{D}^{\star}(\mathcal{A})$ is a subset of $\mathcal{D}(\mathcal{A};\mathcal{A})$
		<pre>\$\bbSpInv(\setA)\$ is a subset of</pre>
		<pre>\${\bbSp(\setA;\setA)}\$</pre>
\bbSpCore	\mathcal{D}°	Systems up to representation
common/blackboxes/		
$ackslash ext{bbDinv}$	D^{-1}	
\bbDri	\boldsymbol{D}^R	
\bbDli	\boldsymbol{D}^L	
\bbE	$oldsymbol{E}$	
\bbF	$oldsymbol{F}$	
\bbG	${\it G}$	
\bbH	H	
\bbL	$\stackrel{ ag{}_{\scriptstyle L}}{L}$	
\bbSpBA	$\mathfrak{D}(\mathfrak{B};\mathcal{A})$	to write
\bbSpAB	$\mathcal{D}(\mathcal{A};\mathcal{B})$	to write
/pophp	$\mathcal{D}(\mathfrak{dt},\mathcal{D})$	00 WII0C
common/blackboxes/	deprecated Deprecated	
\bb0p	<u> </u>	Composition operation
\inSeries	Series	Series of two systems
\bbSpAny	\mathfrak{D}_*	Any of the following
	2*	Discrete time
\bbSpCT	\mathcal{D}^{c}	Continuous time
\bbSpEB	\mathcal{D}^{e}	Event-based
/pppbpp	D	Event-pased
common/boot Bootstra	annina sumbols	
Commony book Dootstre	spping symbols	
common/hoot/obscmd	Observations and comm	nands
\world	m	The "world", an element of $\mathcal{D}(\mathcal{Y};\mathcal{U})$.
\obs		Observations vector.
obse	$oldsymbol{y}_y$	Observations element.
\cmd	$\frac{y}{u}$	Commands vector.
, \	$oldsymbol{u}$	Commands element.
\cmde	u	Number of sensels
\nobs	$n_{oldsymbol{y}}$	
\ncmd	$n_{oldsymbol{u}}$	Number of actuators
\obsSp	y	Observation space
$\backslash \mathtt{cmdSp}$	\mathfrak{U}	Commands space

\		m	
\cmdSph	$\overline{\mathcal{U}}$	Domain of a single actuator $\mathcal{U} = \overline{\mathcal{U}}^{n_u}$.	
obsSph	\overline{y}	Domain of a single sensel $\mathcal{Y} = \overline{\mathcal{Y}}^{n_y}$.	
\obsSphd	$d^{\overline{\mathcal{Y}}}$	Metric on $d^{\overline{y}}$	
\obsSpid \obsSpd	$d^{\mathcal{Y}}$	Metric on d^{y}	
\obs5pa	a^{z}	Metric on a	
common/boot/spatials	sensors Spatial sensors		
\obssp	S	Observation physical space.	
\obsps	\mathcal{S}	Observation physical space.	
\genimages	lm	Images on physical space S .	
\imps	$Im(\mathcal{S})$	Images on physical space \mathcal{S} .	
\1mpb	(0)	images on physical space C.	
common/boot/servo Se	rvoing		
ackslashobsgmark	0		
\obsg	\boldsymbol{y}_{\circ}	Goal observations.	
\obsge	y_{\circ}	Goal observations (element).	
\obsgl	$oldsymbol{z}_{\circ}$	Goal observations (element).	
obsgle	z_{\circ}	Goal observations (element).	
common/boot/abbrevia			
\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	$\mathfrak{D}^{\star}(\mathfrak{Y})$	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	
4			
common/vehicles The			
\veEnvironments	Vehicles universe Environments	All Vehicles environments	
\veEnvironments \veSensors	Environments Sensors	all Vehicles sensors	
\veEnvironments \veSensors \veDynamics	Environments Sensors Dynamics		
\veEnvironments \veSensors	Environments Sensors	all Vehicles sensors	
\veEnvironments \veSensors \veDynamics \veVehicles	Environments Sensors Dynamics Vehicles	all Vehicles sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah	Environments Sensors Dynamics Vehicles	all Vehicles sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce	Environments Sensors Dynamics Vehicles	all Vehicles sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh	Environments Sensors Dynamics Vehicles todo S V	all Vehicles sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov	Environments Sensors Dynamics Vehicles todo S V M	all Vehicles sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd	Environments Sensors Dynamics Vehicles todo S V M A	all Vehicles sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi	Environments Sensors Dynamics Vehicles todo S V M A J	all Vehicles sensors all Vehicles dynamics	
\veEnvironments \veSensors \veOynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar	Environments Sensors Dynamics Vehicles todo S V M A J P	all Vehicles sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar \veNcmd	Environments Sensors Dynamics Vehicles todo S V M A J P U	all Vehicles sensors all Vehicles dynamics	
\veEnvironments \veSensors \veOynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar	Environments Sensors Dynamics Vehicles todo S V M A J P	all Vehicles sensors all Vehicles dynamics	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar \veNcmd \veNobs	Environments Sensors Dynamics Vehicles todo S V M A J P U Y	all Vehicles sensors all Vehicles dynamics Parallel composition of sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar \veNcmd \veNobs	Environments Sensors Dynamics Vehicles todo S V M A J P U	all Vehicles sensors all Vehicles dynamics Parallel composition of sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar \veNcmd \veNobs common/expressions A	Environments Sensors Dynamics Vehicles todo S V M A J P U Y Miscellaneous expressions et al.	all Vehicles sensors all Vehicles dynamics Parallel composition of sensors	
\veEnvironments \veSensors \veOynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar \veNcmd \veNobs common/expressions A \etal \eg	Environments Sensors Dynamics Vehicles todo S V M A J P U Y Miscellaneous expressions et al. e.g.,	all Vehicles sensors all Vehicles dynamics Parallel composition of sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar \veNcmd \veNobs common/expressions A \etal \eg \etc	Environments Sensors Dynamics Vehicles todo S V M A J P U Y Miscellaneous expressions et al. e.g., etc.	all Vehicles sensors all Vehicles dynamics Parallel composition of sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar \veNcmd \veNobs common/expressions A \etal \eg \etc \ie	Environments Sensors Dynamics Vehicles todo S V M A J P U Y Miscellaneous expressions et al. e.g., etc. i.e.,	all Vehicles sensors all Vehicles dynamics Parallel composition of sensors	
\veEnvironments \veSensors \veDynamics \veVehicles common/vehicles/mah \veSce \veVeh \veMov \veAdd \veJoi \vePar \veNcmd \veNobs common/expressions A \etal \eg \etc	Environments Sensors Dynamics Vehicles todo S V M A J P U Y Miscellaneous expressions et al. e.g., etc.	all Vehicles sensors all Vehicles dynamics Parallel composition of sensors	

```
adhoc
                              adhoc
\apriori
                              a\ priori
common/goodformulas Better formulas annotations
\left\{ \text{expl}\left\{ \dots \right\} \right\}
                                                          Explanation in formulas
\left\{ highA\left\{ \ldots\right\} \right\}
                                                          Highlight something in formulas (observations)
\highB{\dots}
                                                          Highlight something in formulas (commands)
\highC{...}
                                                          both observations and commands
common/yesorno Miscellaneous functions for document formatting
\tickYes
                               7
\tickNo
\NA
                              n/a
                               7
\coltickNo
\yes
\no
                                                          small one half
\onehalf
\mbox{smPO}
                                                          Small plus one
\scalebox{smMO}
                                                          Small minus one (e.g. in smallmatrix)
common/incomplete Incomplete symbols
                                                          Marker for sections to write
towrite
                              to write
                                                          A placeholder
\mathbf{placeholder}\{\ldots,\ldots\}
\tocite{...}
\citeboh
                              [xxx]
                               [xxx]
\citexxx
                               888
/xxx
                               888
/XXX
\notsure
                               (Not sure...)
\dontlike
                               (Don't like this)
\notformal
                               (not formal)
\betterword{...}
                               888
\boh
                                                          incomplete
\bn
                                                          bad notation, this should change later
\checkbadformat
                                                          incomplete
\prooftowritesomeday
\myrule{...,...}
\unitInverval
                              [0, 1]
common/geometry Differential geometry
\diff
                              Diff
                                                          Diffeomorphism
                                                          Diff(\mathcal{M}) are the diffeomeorphisms from \mathcal{M} to itself.
                                                          diff(\aset{M}) are the diffeomeorphisms from
                                                          \alpha 
\diffPos
                              Diff<sub>+</sub>
                                                          Orientation-preserving diffeomorphism.
\homeoPos
                              Homeo<sub>+</sub>
                                                          Orientation-preserving homeomorphisms (of the real line)
\diffBounded{...}
                                                          Diffeomorphisms with bounded curvature
\diffVol
                              \mathsf{Diff}_{\mathrm{vol}}
\homeo
                              Homeo
                                                          Set of all homeomorphisms
```

Isometries group

Isom

\isometries

		$Isom(\mathcal{M})$ are all the isometries of \mathcal{M} .
		<pre>\$\isometries(\aset{M})\$ are all the isometries</pre>
		of \$\aset{M}\$.
$\left\{ \text{diffFix}\left\{ \ldots\right\} \right\}$		Diffeomorphisms that fix a point
\setminus conformalFuncs	Conformal	Conformal transformations
common/geometry/manif	olds Manifolds	
Sone	S ¹	Unit circle.
\Stwo	\mathbb{S}^2	Unit sphere.
\stwo	\mathbb{S}^2	Unit sphere
hypsp	\mathbb{H}	
hypspn	\mathbb{H}^n	
graphs $Graphs$		
\paths	paths	All paths in a graph
\walks	walks	All paths in a graph
\head	head	1
\tail	tail	
nodes	nodes	nodes in a walk
\edges	edges	edges in a walk
\sources	sources	
		sources(cG)
		<pre>\$\sources(\cG)\$</pre>
\sinks	sinks	
		sinks(cG)
\	1	\$\sinks(\cG)\$
\predecessors	pred	predecessors of a node
		pred(cn)
\successors	CHCC	\$\predecessors(\cn)\$ successors of a node
/successors	succ	pred(cn)
		\$\predecessors(\cn)\$
		ψ (producedborn (/on) ψ
common/groups Group th	eory	
\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}\$ is a group under \$\cdot\$.</pre>
\haar	haar	Haar measure
\iidai	naai	The Haar measure on \mathfrak{X} is haar X .
		The Haar measure on X is fidal . The Haar measure on x is x is x is x .
		The haar measure on \(\psi \langle \aset\(\rangle \rangle \psi \psi \rangle \langle \langle \rangle \rangle \rangle \rangle \rangle \langle \rangle \r
common/groups/famous		
\idGroup	ld	The trivial group with identity only.
\permutations	Perm	Set of permutation
		Stabilizer of a set
\allsubgroups	AllSubgroups	Symmetries of a function
\comgroups\comgroups\}	VII 2 an Rioah2	Commutator sub group
\groupJoin	V	Group join
/9100h00111	•	oroup Join

$\gcd\{\ldots\}$		Conjugation
\groupquotient	/	Group quotient
\groupsemidir	/ ×	Semidirect product.
\groupisom	\cong	Isomorphism
\issubgroup	\leq	Subgroup relation.
\normalsub	_	Normal subgroup relation
\actionsymbol		Group action.
		Companions functions
	}	Transversal functions
(01010010101010101010101010101010101010	J	
common/groups/matrix	Matrix groups	
\orthogroup	0	Orthogonal group.
\trangroup	T	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_+	•
\se	se	Special Euclidean algebra
\soalgebra	SO	
\sealgebra	se	Special Euclidean algebra
\S0three	SO(3)	Special orthogonal group (rotation matrices)
\SEthree	SE(3)	Special Euclidean group
\SEtwo	$\widetilde{\mathrm{SE}(2)}$	Special Euclidean group
\SEthreeAlg	se(3)	•
\SEtwoAlg	se(2)	
\S0threeAlg	se(3)	
\SOtwoAlg	se(2)	
\setwo	$\widetilde{\mathrm{SE}(2)}$	
\sethree	SE(3)	
\sotwo	SO(2)	
\sothree	SO(3)	
	. ,	
common/groups/simple		
mgroup	$(\mathbb{R}_{\circ}, \times)$	Multiplication group
$\mbox{\tt mposgroup}$	$(\mathbb{R}^+_\circ, imes)$	Positive multiplication group
\mpmgroup	$(\pm 1, \times)$	+1/-1 multiplication group
\addgroup	$(\mathbb{R},+)$	Addition group
, , , ,		
common/groups/simple/		A 1 1:4: III)n
\addgroupn	$(\mathbb{R}^n,+)$	Addition group on \mathbb{R}^n
\affone	$Aff(\mathbb{R})$	Affine group 1D
\affonepos	$Aff_+(\mathbb{R})$	Affine group 1D
\affn	$Aff(\mathbb{R}^n)$	Affine group in n dimensions.

\affnpos	$Aff_+(\mathbb{R}^n)$	Affine transformations preserving orientations.
basic		
basic/optimization Op	timization staff	
\subto	s.t.	Subject to in math
\with	using	"With"
	-	
basic/posets Partial ord	P P	
\pset	· ·	Power set (latenative to powerset
lowerbounds	lowerbounds	
upperbounds	upperbounds	
$\operatorname{ar{pos}Min}$	Min	
\posleq	\preceq	
\posgeq	≽	
\posA	${\cal P}$	
\posAleq	$\preceq_{\mathcal{P}}$	
\posAMin	$\operatorname{Min}_{\preceq_{\mathcal{P}}}$	Minimal elements
\posAmin	$\min_{\preceq_{\mathcal{P}}}$	The least element
\posAmax		The least element
\posB	$\max_{\preceq_{\mathcal{P}}}$	The least element
(=	Q	
\posBleq	$\preceq_{\mathcal{Q}}$	
\posC	\mathcal{R}	
\lfp	lfp 	Least fixed point
\prefixed	prefixed	prefixed points
\CP0s	CPOs	
\CP0	CPO	
\DCP0s	DCPOs	
\DCP0	DCPO	
antichains	Α	
,		The antichains sets of P are $A(P)$
		The antichains sets of P are \$\antichains(P)\$
\upsets	U	
\upresleq	∠υπ	
\upressp	UR	
\allupsets	Up	
, _	-	Converts to smallest upget containing the sta
\upit	<u></u>	Converts to smallest upset containing the ste
\stupit	↑	Strict upper closure
common/probability Pro		
\uniformdist	Uniform	Uniform distribution
ackslashmeasuresupport	Support	Support of a probability measure
\processes	StocProcesses	Set of stochastic processes
conditional	Conditional	Conditional distribution
		Conditional $(\mathcal{B}; \mathcal{A})$ is the set of conditional distribu-
		tions
		\$\conditional(\setB;\setA)\$ is the set of
		conditional distributions
\finaldist	Final	Stationary distribution of a stochastic process.
\measureSp	meas	Measure space.
/	.11045	1.20mm opinoon

		$meas(\mathfrak{X}, \Sigma, \mu)$ is a measure space.
		<pre>\$\measureSp(\aset{X},\Sigma,\mu)\$ is a measure</pre>
		space.
\probSp	prob	Probability space.
		$prob(X, \Sigma, \mu)$ is a probability space.
		<pre>\$\probSp(\aset{X},\Sigma,\mu)\$ is a probability</pre>
		space.
\measures	Measures	Set of probability measures on a set.
		Try $\mu^{\mathfrak{X}} \in Measures(\mathfrak{X})$
		<pre>Try \$\mu{\aset{X}} \in \measures(\aset{X})\$</pre>
\dirac	δ	
,		
common/robotics R	obotics	
\obsip	m	Inner product bilinear form.
obsosp	O	Observation output space.
\dummySensel	s	
\pose	$oldsymbol{q}$	Robot pose $q = (t, \mathbf{R}) \in \mathcal{Q} \subset SE(3)$.
\posesp	Q	Pose space, subgroup of $SE(3)$.
\posespAlg	\mathbf{q}	Pose space algebra.
\confspace	Q	Robot configuration space
\pos	t	Position in the world frame.
\posEl	t	Position in the world frame (element)
\rotm	${f R}$	Rotation matrix representing orientation in the world frame.
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_{i}	Number of joints in a robot
\attitude	$\ddot{\mathbf{R}}$	
position	t	
common/robotics/f	ieldsmapler Field samp	
\field	${\cal F}$	Field sampled by the field sensor.
\fieldpos	z	Generic position in the world.
\fieldpose	z	Generic position in the world.
\worldSp	Maps	
	D	
common/robotics/o		
wshape	s	
\wpose	p	
\worldsp	Maps	
\wshapesp	Shapes	
common/robotics/ma	ans New stuff	
mshape	s	Map shape.
\mpose		Map pose.
\mpose \mshapesp	$oldsymbol{p}$ Shapes	Shape space.
\mapsp	Maps	Shape space. Maps set Maps = Shapes \times SE(3).
/mapsp	ινιαμο	ω $ω$ $ω$ $ω$ $ω$ $ω$ $ω$ $ω$ $ω$ $ω$

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	$\dot{\mathcal{I}}$	Mutual information	
\entr	${\cal H}$	Entropy	
\varinf	\mathcal{V}	Variation of information	
\varinfn	\mathcal{V}_1	Normalized variation of information	
	•	Pushed forward notation	
\distributedAs	\sim	Distributed as	
\			
common/statistics/sortin	ng 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	l 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 with Gaussia	
CLTI	CLTI	Continuous-time linear time-invariant systems	
\CLTIG	CLTIG	Continuous-time linear time-invariant systems with Gaussian noise.	
\DLTI	DLTI	Discrete-time linear time-invariant systems	
\DSMPLTI	DSMPLTI	Discrete-time stable minimum-phase linear time-invariant systems	
\DLTIG	DLTIG	Discrete-time linear time-invariant systems with Gaussian noise.	
\laptrans	\mathcal{L}	Laplace transform	
\impulseresp	~ ImpulseResp	Impulse response of a system	
\transferfunc	TF	Transfer function	
Otypography Basic typograp	Otypography Basic typography		
		All acronyms; good for text as well as math mode. Use lower case.	
\J		, 64, 64	
Otypography/tensors Tens	sors and tensor elements		
		Tensor	
		Tensor element	
		201001 01011111	
\= ()			
Otypography/matrices Matrices and matrix elements			
		A matrix	
		The elements of a matrix	
1 ()		, and the state of	

Otypography/sets Sets

\aset{...}
\agroup{...}

\aseq{...}
\aseqe{...}
\dummyIndices

A set

Fonts for a set which is a group.

A set X, a group X, G, ... A set $x \in X$, a group $x \in X$, a group $x \in X$, $x \in X$,

Formatting for sequences

Formatting for one element in a sequence

Otypography/misc Everything else

\vmath{...}
\codefunc{...}

\aword{...}

How words should look like in formulas.

Consider the operator scale, ...
Consider the operator \$\aword{scale}\$, \dots

How words should appear in math mode.

Code functions

The function select
The function \codefunc{select}

Name of software packages

The package PROCGRAPH, ZMQ, UNIX.

The package \swpackage{Procgraph}, \swpackage{ZMQ}, \swpackage{Unix}.