## **Robodata Daffodil: Converting Actual and Simulated Robot Telemetry and Metadata for Archival DTIC Publication**



**Robodata information flow provides a repeata** 

- Continuing set of theses exploring crucial Navy chall defining measurements, tests, feedback loops, spiral
- Develop data-collection procedures and support, put
- Establish initial Calhoun storage capacities, equipment
- Collect, annotate, publish all ongoing FX experiment
- Recover, annotate, publish all ongoing FX experiment
- Tactical Data Strategy Imperatives: structured data as system inputs/outputs, coherent interoperability, repe
- Training, exemplars by Graduate Writing Center (GV
- This work supports multiple pillars in NPS Strategic
- Piecemeal approaches waste time to reach same end



## **FY20 Call for Propos**

als	Don Brutzman, Undersea Warfa brutzman@nps.edu 831.656.21
state	scenarios can be directly adag
Plan	• Successful NPS patterns for I
VC), Robodojo	• Unleash inventive power of j
eatability	of daily activities, not just oc
s unifying noth for	NDC students need reliable de
niai uala	We know how this and $24x^2$
ent, access	CNO Maritime Design 2.0 un systems is Naval force multir
online	• Data will enable warfighters
development	AI turns data into information
lenges driven by	Artificial Intelligence is diver
able pattern	Coherent data/metadata publication
s, re-use, etc.	data model (such as RST) to
or search	Data Format Description Lan
itive, links	viability of these approaches.
	Multiple projects with studen
Track	• NPS Calhoun staff has exper
/, video, 3D	among diverse vocabularies f
e storage	• Curt Blais dissertation on Ric and practical exemplars for c
	• Many years of cumulative pr
ords summary	
d metadata	
d motodata	

https://faculty.nps.edu/brutzman



rior work all remains sound, see robodata.nps.edu ch Semantic Track (RST) shows theoretical basis common-denominator track representations. for robot/ship/aircraft/simulation missions.

tise to verify correct application of reusable al storage and DTIC publication.

nts in classes and theses have demonstrated , steadily improving with each iteration.

nguage (DFDL) enables decorating a structured formally annotate structured text/binary formats. ication supports NPS, Navy, USMC missions.

erse, blossoming with common thread:

on usable by humans

to win wars – but only if readable!

nequivocally confirms that use of unmanned plier, we must engage fully

7x365 robot operations worldwide

irect access to operational robots and data as part casionally or intermittently

junior officers, clearly and repeatably

learning from realistic UNCLAS robotics pted to best practices for fleet forces

## Curt Blais, MOVES Institute re 49 Scot Miller, Information Sciences (IS)