

DDDAS AWARDS FUNDED IN FY 2005

AWARD ID	TITLE	PI NAME	PROJECT SPONSORS	ABSTRACT
0540374	DDDAS-TMRP: DynaCode: A General DDDAS Framework with Coast and Environment Modeling Applications	Allen	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540374
0540312	DDDAS-SMRP: Dynamic Real-Time Order Promising and Fulfillment for Global Make-to-Order Supply Chains	Ball	Deshmukh/DMI/ENG/NSF Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540312
0540348	DDDAS-SMRP: Integrated Wireless Phone Based Emergency Response System (WIPER)	Barabasi	Darema/CNS/CISE/NSF Newlon/SBE/SES/NSF Hudson/OISE/OD/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540348
0539053	(DDDAS-SMRP) Targeted Data Assimilation for Disturbance-Driven	Bernstein	Darema/CNS/CISE/NSF Bohn/HPC/NOAA	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0539053
0540179	DDDAS/SEP: Optimal interlaced distributed control and distributed measurement with networked mobile actuators and sensors	Chen	Rotea/CMS/ENG/NSF Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540179

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0538373 L 0538387 NL	DDDAS- Collaborative Proposal: Multiscale Data-Driven POD-Based Prediction of the Ocean	Chryssostomidis Haidvogel	Darema/CNS/CISE/NSF Bohn/HPC/NOAA	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0538373 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0538387
0540347 L 0540414 NL	Collaborative Research: DDDAS-TMRP: Dynamic Sensor Networks - Enabling the Measurement, Modeling, and Prediction of Biophysical Change in a Landscape	Clark Flikkema	Darema/CNS/CISE/NSF Blood/DBI/BIO/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540347 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540414
0540132 L 0540278 NL	DDDAS - SMRP: A Framework For the Dynamic Data-Driven Fault Diagnosis of Wind Turbine Systems	Ding Tang	Liu/CMS/ENG/NSF Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540132 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540278
0540178 L 0540136 NL 0540153 NL 0540155 NL	DDDAS-TMRP: Collaborative Research: Adaptive Data-Driven Sensor Configuration, Modeling, and Deployment for Oil, Chemical, and Biological Contamination near Coastal Facilities	Douglas Ewing Johnson Iskandarani	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540178 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540136 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540153 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540155

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0540342	DDDAS-TMRP: DDDAS for Autonomic Interconnected Systems: The National Energy Infrastructure	Downar	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540342
0540419	DDDAS-TMRP: A Dynamic Data Driven System for Structural Health Monitoring and Critical Event Prediction	Farhat	Darema/CNS/CISE/NSF Rotea/CMS/ENG/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540419
0540304	DDDAS-TMRP: Dynamic Data-Driven Brain-Machine Interfaces	Fortes	Demir/BES/ENG/NSF Friedman/NLM/NIH Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540304
0540160	DDDAS-TMRP: Dynamic, Simulation-Based Management of Surface Transportation Systems	Fujimoto	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540160
0540372 L 0540302 NL 0540186 NL	Collabortive Research: DDDAS-TMRP: MIPS: A Real-Time Measurement-Inversion-Prediction-Steering Framework for Hazardous Events	Ghattas Biros Willcox	Darema/CNS/CISE/NSF Rotea/CMS/ENG/NSF Fahroo/AFOSR/NM Hudson/OISE/OD/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540372 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540302 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540186

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0540154 L 0540407 NL	Collaborative Research: DDDAS-SMRP: Optimizing Signal and Image Processing in a Dynamic, Data-Driven Application System	Gilbert Hall	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540154 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540407
0540420	DDDAS-TMRP: A Generic Multi-scale Modeling Framework for Reactive Observing Systems	Golubchik	Darema/CNS/CISE/NSF Bohn/HPC/NOAA	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540420
0540331	DDDAS-SMRP: Coordinated Control of Multiple Mobile Observing Platforms for Weather Forecast Improvement	How	Rotea/CMS/ENG/NSF Darema/CNS/CISE/NSF Meacham/ATM/GEO/NSF Bohn/HPC/NOAA/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540331
0539152	DDDAS-SEP: Application of DDDAS to Assessment of Thermal Systems Using Combined Experiment and Simulation	Knight	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0539152
0540266 L 0540203 NL	DDDAS-TMRP Interactive Data-driven Flow-simulation Parameter Refinement for Understanding the Evolution of Bat Flight	Laidlaw Peraire	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540266 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540203

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0540248	DDDAS-TMRP: Planet-in-a-Bottle: A Numerical Fluid-Laboratory System	Leiserson	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540248
0540142	DDDAS-SEP: Intergrating Multipath Measurements with Site Specific RF Propagation Simulations	Liang	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540142
0540316 L 0540076 NL 0540177 NL 0540289 NL	DDDAS-TMRP (Collaborative Research): An adaptive cyberinfrastructure for threat management in urban water distribution systems	Mahinthakumar Von Laszewski Harrison Uber	Fragaszy/CMS/ENG/NSF Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540316 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540076 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540177 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540289
0540293	DDDAS-TMRP: Auto-Steered Information-Decision Processes for Electric System Asset Management	McCally	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540293
0540259	DDDAS-SMRP: Data Assimilation by Field Alignment	McLaughlin	Darema/CNS/CISE/NSF Meacham/ATM/GEO/NSF Bohn/HPC/NOAA	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540259
0540000	DDDAS-SMRP: Dynamic Data Driven Integrated Simulation and Stochastic Optimization for Wildland Fire Containment	Ntaimo	Darema/CNS/CISE/NSF Deshmukh/DMI/ENG/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540000

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0540033 L 0540063 NL	Collaborative Research: DDDAS-TMRP: Dynamic Data-Driven System for Laser Treatment of Cancer	Oden Hazle	Darema/CNS/CISE/NSF Demir/BES/ENG/NSF Deshmukh/DMI/ENG/NSF Chong/CMS/ENG/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540033 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540063
0540181	DDDAS-SMRP: Development of a closed-loop identification machine for bionetworks (CLIMB) and its application to nucleotide metabolism	Rabitz	Darema/CNS/CISE/NSF Lyster/NIGMS/NLM/NIH	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540181
0540147	DDDAS-SMRP: Measuring and Controlling Turbulence and Particle Populations	Rawlings	Darema/CNS/CISE/NSF Burka/CTS/ENG/NSF Plesniak/CTS/ENG/NSF Mountziaris/CTS/ENG/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540147
0540237 L 0540216 NL	DDDAS-TMRP: Data-Driven Power System Operations	Sauer Sussman	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540237 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540216
0540212	DDDAS-SMRP: Dynamically-Integrated Production Planning and Operational Control for the Distributed Enterprise	Son	Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540212
0540143	DDDAS-SMRP: Robustness and Performance in Data-Driven Revenue	Thiele	Deshmukh/DMI/ENG/NSF Darema/CNS/CISE/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540143

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	Management			
0540369 L 0540352 NL	Collaborative Research: DDDAS-TMRP: Real-Time Astronomy with a Rapid-Response Telescope Grid	Williams Bloom	Darema/CNS/CISE/NSF Sharp/AST/MPS/NSF	http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540369 http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0540352