CONFERENCE Sep 15, 2020

Online, Virtual

Submission Code	ASME Paper Number	Submitting Author Name	Presenting Author Name	Track	Paper Title
53089	SMASIS-2299	Adriane Moura	Adriane Moura	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Piezoelectric Nonlinear Energy Sink for Broadband Attenuation of Nonline Vibrations
53239	SMASIS-2427	Alexander Pankonien	Alexander Pankonien	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Deadbands Tell No Tails: X-56A Dynamic Actuation Requirements
53231	SMASIS-2429	Alissa Johnson	Alissa Johnson	SYMP 9: Special Session on Multifunctional Energy Storage Materials and Systems	Perfluorocarbon Emulsions for High Energy Density Synthetic Vascular Systems
53202	SMASIS-2411	Alper Erturk	Ahmed Allam	SYMP 7: Energy Harvesting	Enhanced Sound Energy Harvesting by Leveraging Gradient-Index Phononi Crystals
53218	SMASIS-2413	Alper Erturk	Alper Erturk	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Elastic Wave Manipulation Using Programmable Piezoelectric Metamaterials
53249	SMASIS-2444	Alper Erturk	Eetu Kohtanen	SYMP 6: Bioinspired Smart Materials and Systems	Characterization of a Multifunctional Bioinspired Piezoelectric Swimmer and Energy Harvester
53085	SMASIS-2290	Amanda Skalitzky	Amanda Skalitzky	SYMP 4: Integrated System Design and Implementation	Machine Design for Multiscale Nitinol Annealment Process and End Produ Performance Analysis
53112	SMASIS-2298	Amir Ameli	Amir Ameli	SYMP 1: Development and Characterization of Multifunctional Materials	Interfacial Bond Strength of Various Rigid/Soft Multi-Materials Printed via Fused Filament Fabrication Process
53172	SMASIS-2357	Amit Bhayadia	Amin Karami	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	An Optimal Control Method for Generation of Traveling Waves on Morphing Wing Surfaces
53141	SMASIS-2332	Anargyros Karakalas	Anargyros Karakalas	SYMP 4: Integrated System Design and Implementation	Design of Morphing Strips Using SMA Actuators Under Partial Phase Transformation Operation
53159	SMASIS-2388	Andres Arrieta	Juan Osorio	SYMP 4: Integrated System Design and Implementation	Effect of Boundary Conditions on Multistability of Tape Springs Sensor-Data Reconstruction for Helicopter Structural-Health Monitoring
53119	SMASIS-2311	Andrew Harper	Andrew Harper	SYMP 8: Emerging Technologies	Using Deep Learning
53158 53201	SMASIS-2348 SMASIS-2395	Angela Nastevska Anil Erol	Angela Nastevska Anil Erol	SYMP 6: Bioinspired Smart Materials and Systems SYMP 4: Integrated System Design and Implementation	Design of Compliant Joints for Large Scale Structures Analysis of Multi-Stable Architectures for Morphing Structures
33201	3IVIA3I3*2333	AIIII EI OI	Allifeloi	31VIF 4. Integrated System Design and Implementation	Flow Control and Separation Delay in Morphing Structures
53169	SMASIS-2355	Anthony Olivett	M. Amin Karami	SYMP 6: Bioinspired Smart Materials and Systems	Traveling Wave Actuation
53234	SMASIS-2432	Anthony Smith	Anthony Smith	SYMP 4: Integrated System Design and Implementation	Automotive Grille Shutter Using Passive Shape Memory Alloy Actuation An Internet of Things Approach for Dynamic and Data-Driven Remaining
53191	SMASIS-2383	Antonios Kontsos	Antonios Kontsos	SYMP 5: Structural Health Monitoring	Useful Life Predictions Kinematic Synthesis of Knitted Shape Memory Alloy Programmable
53135	SMASIS-2327	Atharva Mahabaleshwarkar	Atharva Mahabaleshwarkar	SYMP 8: Emerging Technologies	Structures
53095	SMASIS-2281	Austin Downey	Austin Downey	SYMP 5: Structural Health Monitoring	Multi-Model Data Assimilation for Structures
53248	SMASIS-2439	Austin Downey	Austin Downey	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Real-Time Model Updating Algorithm for Structures Experiencing High-Rati Dynamic Events
53087	SMASIS-2270	Behrouz Haghgouyan	Behrouz Haghgouyan	SYMP 2: Mechanics & Behavior of Active Materials	Fatigue Crack Growth in Shape Memory Alloys Under Mechanical and Actuation Loading
53030	SMASIS-2248	Benedict Theren	Benedict Theren	SYMP 2: Mechanics & Behavior of Active Materials	Investigations Regarding Repeatability of SMAII Strokes of Electrically Activated SMA Wires
53067	SMASIS-2246	Benedict Theren	Benedict Theren	SYMP 5: Structural Health Monitoring	A Method of Crack Monitoring for Electrically Activated SMA Wires Using Thermography
53070	SMASIS-2249	Benedict Theren	Benedict Theren	SYMP 5: Structural Health Monitoring	Resistance-Based Temperature Monitoring Using Machine Learning and Adapted Activation for an SMA Locking System in Aircraft Interiors
53171	SMASIS-2249	Benjamin Saunders	Benjamin Saunders	SYMP 6: Bioinspired Smart Materials and Systems	A Novel Bio-Inspired Pneumatic Valve Adapter for Soft Robotic Vasculature
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53012	SMASIS-2206	Bharg Shah	Bharg Shah	SYMP 4: Integrated System Design and Implementation	A Piezocomposite Actuated Propeller With an Onboard Power Generator Characterization of Iron-Based Shape Memory Alloys Under Multiaxial
53212	SMASIS-2402 SMASIS-2283	Bjoern Kiefer Brandon Williams	Bjoern Kiefer Brandon Williams	SYMP 1: Development and Characterization of Multifunctional Materials SYMP 5: Structural Health Monitoring	Loading Using a Miniaturized Test Terfenol-D Carbon Fiber Reinforced Polymer (CFRP) Embedded Sensing for Early Localized Damage Detection
53130	SMASIS-2382	Brent Utter	Brent Utter	SYMP 4: Integrated System Design and Implementation	Design of Archer Fish With a Shape Memory Alloy Actuated Caudal Fin for Ethorobotic Studies
53059	SMASIS-2235	Brittany Newell	Brittany Newell	SYMP 1: Development and Characterization of Multifunctional Materials	Production of 3D Printed Flexible Strain Sensors
					A Computational Study of Strain Sensing via 3D Printed CNF-Modified PLA
53061	SMASIS-2236	Brittany Newell	Cole Maynard	SYMP 5: Structural Health Monitoring	Strain Gauges
53062	SMASIS-2239	Brittany Newell	David Gonzalez Rodriguez	SYMP 1: Development and Characterization of Multifunctional Materials	3D Printing of Flexible Sensing Actuators
53161 53113	SMASIS-2349 SMASIS-2301	Carlo Greco Carson Squibb	Carlo Greco Carson Squibb	SYMP 8: Emerging Technologies SYMP 1: Development and Characterization of Multifunctional Materials	Rehabilitation Glove Powered by Twisted and Coiled Artificial Muscles Mechanisms of Stiffening in Polymer-Filled Honeycomb Composites
					Analytical Model and Experimental Validation of Superelatic Twist Inserted Niti Microfilament Varus
53139	SMASIS-2322	Charles Weinberg	Charles Weinberg	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	
53227	SMASIS-2421	Charles Weinberg	Charles Weinberg	SYMP 8: Emerging Technologies	Experimental Investigation of Niti Microfilament Over-Twisted Coiled Yarns
53140	SMASIS-2326 SMASIS-2293	Christopher Cooley Christopher Knippenberg	Christopher Cooley Christopher Knippenberg	SYMP 2: Mechanics & Behavior of Active Materials SYMP 1: Development and Characterization of Multifunctional Materials	Nonlinear Vibration of Thick Dielectric Membrane Disks With Radial Loads Functional Description for Thick Bistable Carbon Fiber Laminates With Rayleigh-Ritz, Abagus, and Experiments
					Non-Traditional Shape Variations on Bistable Carbon Fiber Reinforced
53104	SMASIS-2291	Christopher Nelon	Christopher Nelon	SYMP 1: Development and Characterization of Multifunctional Materials	Polymer Laminates
53133	SMASIS-2328	Cody Gonzalez	Cody Gonzalez	SYMP 6: Bioinspired Smart Materials and Systems	Analytical Modeling of a Segmented Bimorph Lithium Ion Battery Actuator
53022	SMASIS-2210	Cody Wright	Cody Wright	SYMP 4: Integrated System Design and Implementation	Design Optimization of a Piezocomposite Morphing Multi-Element Airfoil
53023	SMASIS-2211	Cody Wright	Cody Wright	SYMP 4: Integrated System Design and Implementation	Modeling and Parametric Analysis of Multilayer Piezocomposite Actuators The Mechanical Behavior of Materials Program at the Us Army Research
53173	SMASIS-2358	Daniel Cole	Daniel Cole	SYMP 8: Emerging Technologies	Office Development Approach of Actuators for High Loads Based on Shape
53048	SMASIS-2232	Daniel Maiwald	Daniel Maiwald	SYMP 2: Mechanics & Behavior of Active Materials	Memory Alloys Nonlinear Substructure Methods for Analysis and Design of Bending
53103	SMASIS-2359	Darren Hartl	Patrick Walgren	SYMP 4: Integrated System Design and Implementation	Cylinders Comprised of Hierarchical Lattices
53156	SMASIS-2350	Darren Hartl	Darren Hartl	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Selection Criteria and Parametric Optimization of Camber Morphing Aircraf Development and Experimental Demonstration of a Shape Memory Alloy-
53167	SMASIS-2361	Darren Hartl	Darren Hartl	SYMP 4: Integrated System Design and Implementation	Based Adaptive Two-Phase Radiator for Space Applications Design, Fabrication, and Experimental Demonstration of an Shape Memory
53168	SMASIS-2362	Darren Hartl	Darren Hartl	SYMP 4: Integrated System Design and Implementation	Alloy-Based Adaptive Flow Modification System Biomimetic Adaptive Airframe Technology (Baat) for Rotorcraft
53177	SMASIS-2363	Darren Hartl	Darren Hartl	SYMP 4: Integrated System Design and Implementation	Applications Designing a Morphable Parabolic Reflector Antenna Using Origami-Inspire
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	SMASIS-2431	Darren Hartl	Darren Hartl	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Discretization and Efficient Global Optimization
53241 53106	SMASIS-2431 SMASIS-2294	Darren Hartl David Lattanzi	Darren Hartl David Lattanzi	SYMP 3: Modeling, Simulation and Control of Adaptive Systems SYMP 5: Structural Health Monitoring	Discretization and Efficient Global Optimization Spatial Statistical Methods for Complexity-Based Point Cloud Analysis Moisture Driven Actuation in Twisted Polymers Actuators and Moisture

Submission Code					Paper Title
	ASME Paper Number	Submitting Author Name	Presenting Author Name	Track	Design of a Compliant Industrial Gripper Driven by a Bistable Shape
53011	SMASIS-2204	Dominik Scholtes	Dominik Scholtes	SYMP 4: Integrated System Design and Implementation	Memory Alloy Actuator
53054	SMASIS-2286	Edwin Peraza Hernandez	Derosh George	SYMP 1: Development and Characterization of Multifunctional Materials	Characterization and Design of Programmable Self-Folding Polymer Films Design of Shape Memory Alloy-Based Adaptive Building Skins for Thermal
53055	SMASIS-2302	Edwin Peraza Hernandez	Yudong Fang	SYMP 4: Integrated System Design and Implementation	Regulation Controlling the Rotational DOF of Laminar Jamming Structures With End
53206	SMASIS-2399	Emily Allen	Emily Allen	SYMP 6: Bioinspired Smart Materials and Systems	Clamping Mechanism Comparative Investigation of Pennate vs. Parallel Artificial Muscle Tissue
53115	SMASIS-2313	Emily Duan	Emily Duan	SYMP 6: Bioinspired Smart Materials and Systems	Topologies An Affordable and Portable Palpable System for Sensing Breast Tissue
53079	SMASIS-2273	Ephraim Zegeye	Cody J. Clarke	SYMP 6: Bioinspired Smart Materials and Systems	Abnormalities Performance of a Multifunctional Spiral Shaped Acoustic Metamaterial
53016	SMASIS-2264	Fariha Mir	Fariha Mir	SYMP 1: Development and Characterization of Multifunctional Materials	With Synchronized Low-Frequency Noise Filtering and Energy Harvesting Capability
53136	SMASIS-2331	Fnu Vedant	FNU Vedant	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Impact of Including Electronics Design on Design of Intelligent Structures: Applications to Multifunctional Structures for Attitude Control (MSAC) Plezoresistive Sensing Abilities of Randomly Dispersed Graphene
53219 53229	SMASIS-2414 SMASIS-2420	Gary Seidel Henry Koon	Gary Seidel Henry Koon	SYMP 1: Development and Characterization of Multifunctional Materials SYMP 8: Emerging Technologies	Nanoplatelet Networks Embedded in an Epoxy Matrix Preliminary Exploration of Auxetic Superelastic Knitted Structures
53013	SMASIS-2205	Hesam Sharghi	Hesam Sharghi	SYMP 7: Energy Harvesting	Analysis of Electromagnetic Oscillatory Weight Vibration Energy Harvester Systems for Wearable Devices
53109	SMASIS-2321	Hongyang Shi	Hongyang Shi	SYMP 1: Development and Characterization of Multifunctional Materials	Highly Stretchable Resistive Strain Sensors Using Multiple Viscous Conductive Materials
53138	SMASIS-2325	Hrishikesh Danawe	Hrishikesh Danawe	SYMP 5: Structural Health Monitoring	Structurally Embedded Gradient Index Lens for Simultaneous Amplification of Guided Waves in Polymer Pipes
53035	SMASIS-2220	Ishan Karnik	Tyler Tallman	SYMP 5: Structural Health Monitoring	The Effect of Fatigue Loading on Electrical Impedance in Open-Hole Carbon Nanofiber-Modified Glass Fiber/Epoxy Composites
53225 53253	SMASIS-2419 SMASIS-2449	Jae-Hung Han James Gibert	Hyeon-Ho Yang James Gibert	SYMP 4: Integrated System Design and Implementation SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Design of Revolute Joint With Bi-Stability Using Permanent Magnets Ultrasonic Additive Manufacturing of a Triboelectric Composite
53120	SMASIS-2306	James Scheppegrell	James Scheppegrell	SYMP 5: Structural Health Monitoring	Optimization of Rapid State Estimation in Structures Subjected to High-Rate Boundary Change
53200	SMASIS-2392	Janav Udani	Janav Udani	SYMP 4: Integrated System Design and Implementation	Programmable Metamaterials Featuring Shape and Stiffness Adaptability Based on Local Bistability
53116	SMASIS-2330	Jeong Yong Kim	Jeong Yong Kim	SYMP 6: Bioinspired Smart Materials and Systems	Development and Demonstration of an Orderly Recruitment Valve for Fluidic Artificial Muscles
53021	SMASIS-2224	Johannes Prechtl	Paul Motzki	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Self Sensing Control of Antagonistic SMA Actuators Based on Resistance- Displacement Hysteresis Compensation
53118	SMASIS-2304	Johannes Riemenschneider	Riemenschneider Johannes	SYMP 4: Integrated System Design and Implementation	Structural Design of a Shock Control Bump for a Natural Laminar Flow Aircraft Wing
53184	SMASIS-2433	Johannes Riemenschneider	Johannes Riemenschneider	SYMP 4: Integrated System Design and Implementation	Active and Passive Methods for Load Alleviation in Wind Turbines A Fiber Optic Conjugate-Stress Sensor for Prognostic Health Monitoring of
53226	SMASIS-2424	Jonathan Kordell	Jonathan Kordell	SYMP 5: Structural Health Monitoring	Fatigue
53192	SMASIS-2385	Jonathan Luntz	Adeline Wihardja	SYMP 4: Integrated System Design and Implementation	Posable Tensegrity-Constrained Inflatable Kinematic Graphical Analysis Moldable Rigidizing Textile Performance Design, Characterization, and
53195 53064	SMASIS-2386 SMASIS-2240	Jonathan Luntz Jose Garcia	Koray Benli Jose Garcia-Bravo	SYMP 4: Integrated System Design and Implementation SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Modeling Simulation and Validation of Fully 3D Printed Soft Actuators
53066	SMASIS-2245	Jose Garcia	Jose Garcia	SYMP 4: Integrated System Design and Implementation	The Effects of Additive Manufacturing and Electric Poling Techniques on PVDF Thin Films: Towards 3D Printed Functional Materials
53187	SMASIS-2378	Joshua Maraj	Joshua J. Maraj	SYMP 6: Bioinspired Smart Materials and Systems	Biomolecular Synapses for Adaptive Filtering in Physical Neuromorphic Networks
53157	SMASIS-2352	Joyce El-Beyrouthy	Joyce El Beyrouthy	SYMP 6: Bioinspired Smart Materials and Systems	Continuous and Rapid Measurement of Membrane Potential Through Intramembrane Field Compensation
53069	SMASIS-2250	Julio Hernandez	Julio Hernandez	SYMP 1: Development and Characterization of Multifunctional Materials	The Piezoresistive Response of CNF/Epoxy to One-Dimensional Strain Wave Excitation via Remote Loading
53236	SMASIS-2446	Junrui Liang	Xin Li	SYMP 7: Energy Harvesting	System Design and Implementation of a Transient-Motion-PoweredlotT Sensor Node
53047	SMASIS-2241	Kazuko Fuchi	Kazuko Fuchi	SYMP 8: Emerging Technologies	Investigation of Analysis and Gradient-Based Design Optimization Using Neural Networks
53065	SMASIS-2242	Kenny Pagel	Kenny Pagel	SYMP 4: Integrated System Design and Implementation	Development of a Shape Memory Alloy Actuator for a Micromechanical Sterilization Cycle Counter
53243 53256	SMASIS-2435 SMASIS-2452	Kevin Billon Latha Nataraj	Kevin Billon Latha Nataraj	SYMP 2: Mechanics & Behavior of Active Materials SYMP 2: Mechanics & Behavior of Active Materials	Numerical Optimization of Liner Impedance in Acoustic Duct Phase Transition-Enabled Shape Adaptation for Aerial Platforms
53068	SMASIS-2267	Li Ai	Li Ai	SYMP 5: Structural Health Monitoring	Deep Learning Source Localization of Impact on Thermoplastic Control Surface
53176	SMASIS-2366	Libo Wu	Libo Wu	SYMP 8: Emerging Technologies	True Presence Detection via Passive Infrared Sensor Network Using Liquid Crystal Infrared Shutters
53162	SMASIS-2351	Lihua Tang	Lihua Tang	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Band Gap Formation in Metamaterial Beam With Torsional Local Resonators for Vibration Suppression
53224	SMASIS-2418	Lihua Tang	Lihua Tang	SYMP 7: Energy Harvesting	A Lumped Parameter Approach for Analysing a Metamaterial Beam Based Piezoelectric Energy Harvester Around Fundamental Resonance
53029	SMASIS-2280	Lukas Zimmer	Lukas Zimmer	SYMP 4: Integrated System Design and Implementation	Adaptive Material Handling System Based on Shape Memory Alloy Actuators
53154	SMASIS-2342	Maja Anachkova	Jovana Jovanova	SYMP 6: Bioinspired Smart Materials and Systems	Design and Analysis of a Modular VTOL Drone With Bat-Inspired Wings
53077	SMASIS-2256	Martin Pohl	Martin Pohl	SYMP 4: Integrated System Design and Implementation	Design and Experimental Investigation of a Flexible Trailing Edge for Wind Energy Turbine Blades
53128	SMASIS-2310	Martin Radestock	Martin Radestock	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Experimental Study of Flexible Skin Designs Between a Moving Wing Segment and a Fixed Wing Part on a Full Scale Demonstrator
53223	SMASIS-2437	Masoud Zarepoor	Masoud Zarepoor	SYMP 4: Integrated System Design and Implementation	Fabrication and Testing of a Soft Shape Memory Alloy Actuator With an Integrated Liquid Metal Sensor
53216	SMASIS-2409	Matthew Backfish	Matthew Backfish	SYMP 2: Mechanics & Behavior of Active Materials	Nitinol as a Drive Mechanism in Drug Delivery Devices Design and Test of an Articulation Mechanism for a Morphing Missile
53008	SMASIS-2215	Matthew Snyder	Andrew Ehler	SYMP 4: Integrated System Design and Implementation	Nosecone Design and Optimization of Piezoelectric Actuators for Aeroacoustic Noises
53245	SMASIS-2436	Matthias Perez	Matthias Perez	SYMP 2: Mechanics & Behavior of Active Materials	Control in a Turbofan Functionally Graded High Temperature Shape Memory Alloy Miniature
53208	SMASIS-2412	Michael Kuntz	Michael Kuntz	SYMP 2: Mechanics & Behavior of Active Materials	Actuators Shape Memory Alloy Driven Actuation Concepts for Morphing Low-Boom
53147 53091	SMASIS-2339 SMASIS-2347	Micheal Bass Michelle Makhoul-Mansour	Micheal Bass Michelle Makhoul-Mansour	SYMP 2: Mechanics & Behavior of Active Materials SYMP 6: Bioinspired Smart Materials and Systems	Supersonic Aircraft Configurations Adaptive Bioinspired Synthetic Tissues
53080	SMASIS-2266	Midhan Siwakoti	Midhan Siwakoti	SYMP 2: Mechanics & Behavior of Active Materials	Localized Joule Heating for Self-Folding of Shape Memory Polymer Origami
53246	SMASIS-2438	Mohammad Alshaikh Ali	Mohammad Alshaikh Ali	SYMP 5: Structural Health Monitoring	An Impact-Based Experimental Setup for Evaluation of Rapid Electromechanical Impedance-Based Structural Health Monitoring
53024	SMASIS-2212	Mohammad Katibeh	Mohammad Katibeh	SYMP 4: Integrated System Design and Implementation	Parametric Analysis of Structural and Aerodynamic Properties of a Solid- State Ornithopter
53131	SMASIS-2316	Mohammad Mousavi	Mohammad Mousavi	SYMP 7: Energy Harvesting	Bi-Stable Triboelectric Generators and Autonomous Shock Sensing Discreteness Effect in Bistable Lattices to Enhance Energy Harvesting
53179	SMASIS-2381	Myungwon Hwang	Myungwon Hwang	SYMP 7: Energy Harvesting	Potential Characterization of a Packaged Triboelectric Harvester Under Simulated
53255	SMASIS-2451	Nabid Aunjum Hossain	Nabid Aunjum Hossain	SYMP 7: Energy Harvesting	Gait Loading for Load Sensing in Total Knee Replacement Multi-Modal Fibre Optic Shape Sensing for the Smart-X Morphing Wing
53163	SMASIS-2371	Nakash Nazeer	Nakash Nazeer	SYMP 4: Integrated System Design and Implementation	Demonstrator Shape Memory and Mechanical Properties of Pre-Aged Thermo-
53126	SMASIS-2319	Nathan Ley	Nathan Ley	SYMP 2: Mechanics & Behavior of Active Materials	Mechanically Processed High Hf Containing Nitihf

Submission					
Code	ASME Paper Number	Submitting Author Name	Presenting Author Name	Track	Paper Title Effects of D15 Mode Pzt Transducer Location on Mode Selectivity of Lamb
53125	SMASIS-2312	Nathan Salowitz	Nathan Salowitz	SYMP 5: Structural Health Monitoring	Waves
50040					Investigation of Elastocaloric Air Cooling Potential Based on Superelastic
53210	SMASIS-2404	Nicolas Michaelis	Nicolas Michaelis	SYMP 2: Mechanics & Behavior of Active Materials	SMA Wire Bundles Finite Element Modeling and Parametric Study of Piezoelectric Dental
53175	SMASIS-2360	Nikta Amiri	Nikta Amiri	SYMP 6: Bioinspired Smart Materials and Systems	Retainers
53111	SMASIS-2344	Oleg Testoni	Oleg Testoni	SYMP 1: Development and Characterization of Multifunctional Materials	Mechanical Characterisation of a Novel Concept of Adaptive Electrostatic
53111	SIVIASIS-2344	Oleg Testoni	Oleg Testoni	STMP 1: Development and Characterization of Multifunctional Materials	Friction Damper A Computational Framework for Predicting Properties From Multifield
53198	SMASIS-2390	Paris Von Lockette	Denise Widdowson	SYMP 2: Mechanics & Behavior of Active Materials	Processing Conditions in Polymer Matrix Composites
53160	SMASIS-2375	Parth Kotak	Parth Kotak	SYMP 6: Bioinspired Smart Materials and Systems	Boundary Layer Transition Induced by Bio-Inspired Twisted Spiral Artificial Muscles
33100	3IVIA3I3*2373	Faltii Kotak	Partii Kotak	STIVE 6. Biolispired Smart Waterials and Systems	Procedure for Tailoring Steady-State Traveling Waves for Underwater
53046	SMASIS-2225	Patrick Musgrave	Patrick Musgrave	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Propulsion and Solid-State Motion
53181	SMASIS-2372	Paul Gilmore	Paul Gilmore	SYMP 4: Integrated System Design and Implementation	Characterization and Development of Lightweight Piezoelectric Pump Design and Experimental Investigation of Mechanical Actuator Fabrics
53014	SMASIS-2284	Rachael Granberry	Rachael Granberry	SYMP 8: Emerging Technologies	Composed of Torque-Unbalanced Sma Yarns
					Preliminary Investigation of the Design of a Mechanically Antagonistic,
53238 53174	SMASIS-2426 SMASIS-2365	Rachael Granberry Rizwana Akter	Rachael Granberry Rizwana Akter	SYMP 4: Integrated System Design and Implementation SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Actuating Countermeasure Garment for Astronauts Post-Spaceflight Fabrication of a 3D Bistable Composite
33174	31411/3/3/2303	THE WORLD THREE!	MEWOND FIRECT	5. Modeling, Simulation and Control of Adaptive Systems	Development of Shape Memory-Based Elastic-Adaptive Damping Elements
53026	SMASIS-2255	Robin Roj	Ralf Theiß	SYMP 4: Integrated System Design and Implementation	for Sport and Rehabilitation Equipment
53078	SMASIS-2257	Robin Roj	Ralf Theiß	SYMP 4: Integrated System Design and Implementation	Process Optimization of Local Annealing of Shape Memory Alloy Wires for Plagiarism Detection
33070	SIVINGIS ELS?	noom noj	Rui Triciis	51111 4. Integraced System besign and implementation	Data Analytics Supported Quality Control of Serial-Produced SMA-Actuators
53081	SMASIS-2260	Robin Roj	Ralf Theiß	SYMP 4: Integrated System Design and Implementation	for Space Applications
53137	SMASIS-2320	Rocco Vertechy	Rocco Vertechy	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Additively Manufactured Continuous Fibre-Reinforced Thermoplastics for Mechanisms Subjected to Predominant Inertial Load: A Case Study
53028	SMASIS-2214	Rouven Britz	Rouven Britz	SYMP 2: Mechanics & Behavior of Active Materials	Decoupled Antagonistic SMA Actuator for Valve Applications
F2020					Vibration Response Studies of Bi-Morph SMA Hybrid Composite Using 3D
53020	SMASIS-2231	Rupal Srivastava	Rupal Srivastava	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Laser Doppler Vibrometer Investigation of Reconfigurable Cylindrical Shells With Multiple Stable
53082	SMASIS-2265	Russell Mailen	Russell Mailen	SYMP 8: Emerging Technologies	States
53075	SMASIS-2258	Ryan Long	Ryan Long	SYMP 1: Development and Characterization of Multifunctional Materials	Fabrication of Tessellated Structures via Simultaneous Self-Folding
53049	SMASIS-2287	Rytis Mitkus	Rvtis Mitkus	SYMP 4: Integrated System Design and Implementation	Investigation and Attempt to 3D Print Piezoelectric 0-3 Composites Made of Photopolymer Resins and PZT
53005	SMASIS-2202	Seán Carey	Sean Carey	SYMP 1: Development and Characterization of Multifunctional Materials	Reconfigurable Multi-Stable Helical Lattice
53251 53153	SMASIS-2447 SMASIS-2341	Simge Uzun	Simge Uzun	SYMP 9: Special Session on Multifunctional Energy Storage Materials and Systems	Mxene Liquid Crystals and Fibers
53247	SMASIS-2440	Simona Domazetovska Soobum Lee	Jovana Jovanova Christopher Mullen	SYMP 6: Bioinspired Smart Materials and Systems SYMP 7: Energy Harvesting	Environmentally Friendly Bio-Inspired Turtle Robot Design Optimization of an Inductive Power Transfer System
					Shaping Action Potentials and Activity-Dependent Plasticity in Bio-
53170	SMASIS-2354	Subhadeep Koner	Subhadeep Koner	SYMP 6: Bioinspired Smart Materials and Systems	Molecular Neuristors. Synapse-Inspired, Memristive Polymeric Devices Based on Pvdf and Ionic
53185	SMASIS-2376	Subhadeep Koner	Subhadeep Koner	SYMP 6: Bioinspired Smart Materials and Systems	Liquid
53076	SMASIS-2261	Susanne-Marie Kirsch	Susanne-Marie Kirsch	SYMP 2: Mechanics & Behavior of Active Materials	SMA Antagonistic-Micro-Wire Bundle: First Measurement Results
53083	SMASIS-2262	Susanne-Marie Kirsch	Felix Welsch	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	System Simulation of an Elastocaloric Heating and Cooling Device Based on SMA
53034	SMASIS-2202	Suyi Li	Suyi Li	SYMP 8: Emerging Technologies	Pneumatic Extension Actuators With Kirigami Skins
53050	SMASIS-2227	Talal Salem	Talal Salem	SYMP 1: Development and Characterization of Multifunctional Materials	Tunable Postbuckling Systems of Bi-Walled Nonuniform Beams
53196	SMASIS-2403	Tanay Topac	Tanay Topac	SYMP 1: Development and Characterization of Multifunctional Materials	Target Specific Design of Large Area Stretchable Electronics Design and Real-Time Implementation of a Vision-Based Adaptive Model-
53151	SMASIS-2367	Tigran Mkhoyan	Tigran Mkhoyan	SYMP 4: Integrated System Design and Implementation	Free Morphing Wing Motion Control Method
					Design of a Smart Morphing Wing Using Integrated and Distributed Trailing
53165	SMASIS-2370	Tigran Mkhoyan	Tigran Mkhoyan	SYMP 4: Integrated System Design and Implementation	Edge Camber Morphing Integration of Active Morphing Technology With Smart Morphing Wing
					Concept for Simultaneous In-Flight Performance Optimisation, Load
53166 53060	SMASIS-2369 SMASIS-2238	Tigran Mkhoyan Tom Gorges	Tigran Mkhoyan Paul Motzki	SYMP 4: Integrated System Design and Implementation SYMP 2: Mechanics & Behavior of Active Materials	Alleviation and Flight Dynamic Control High Voltage AC Control of SMA Wires
53000	SIVIASIS-2238	Tom Gorges	Paul Motzki	STIMP 2: Mechanics & Benavior of Active Materials	Combined Finite Element Method (FEM) and Network Simulation of a
53215	SMASIS-2407	Uwe Marschner	Uwe Marschner	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Nonlinear Electromagnetic Energy Harvester
53217	SMASIS-2408	Uwe Marschner	Uwe Marschner	SYMP 3: Modeling, Simulation and Control of Adaptive Systems	Prediction of the Behavior of Dynamically Actuated DE Roll-Actuators Using
JJ411	5.1.1.515-2400	Owe Marsenner	Owe Marsenner	5. modeling, Jinidadon and Condoi of Adaptive Systems	Autonomous Multifunctional Vehicle With Integrated Bio-Inspired SMA
53155	SMASIS-2343	Vasko Changoski	Jovana Jovanova	SYMP 6: Bioinspired Smart Materials and Systems	Actuated Grasper
53180	SMASIS-2368	Vincent Stuber	Vincent Stuber	SYMP 4: Integrated System Design and Implementation	Boundary Layer State Detection Using Piezoelectric Sensors
53122	SMASIS-2307	Wei-Hsin Liao	Gaoyu Liu	SYMP 4: Integrated System Design and Implementation	Magnetorheological Damper With Micro-Grooves: Design and Experiment
52027	CAAACIC 2225	Vii- V			Study on Mechanical-Electric Characteristics of a CantileverBeam of a
53037	SMASIS-2221	Xiaomin Xue	Xiaomin Xue	SYMP 7: Energy Harvesting	Composite PZT Patch On the Effects of Electrical Conductivity on the Triboelectric Behavior of a
53097	SMASIS-2300	Xiaoyue Zhao	Xiaoyue Zhao	SYMP 7: Energy Harvesting	PDMS-Based Composite Material
E2017	SMASIS-2207	Vin Shan	Vin Shan	SVMD 4: Integrated System Design and Implantation	Optimization of a Bioinspired Piezocomposite Peristaltic Pump Based on an Electromechanical Model
53017	SIVIASIS-22U/	Xin Shan	Xin Shan	SYMP 4: Integrated System Design and Implementation	A Lumped Parameter Electro-Mechanical-Fluid Coupling Model for an
53018	SMASIS-2208	Xin Shan	Xin Shan	SYMP 4: Integrated System Design and Implementation	Oscillating Beam in a Fluid
52225	SMASIS-2429	Viuiun Vue	Viujun Vue	SYMP 7: Energy Harvesting	Ultra-High Current Mechanical Energy Harvester Based on Lithium Cobalt Oxide
53235 53027	SMASIS-2428 SMASIS-2213	Xiujun Yue Yannik Goergen	Xiujun Yue Yannik Goergen	SYMP 7: Energy Harvesting SYMP 4: Integrated System Design and Implementation	Modular Design of an SMA Driven Continuum Robot
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53244	SMASIS-2424	Voung-Keun Kim	Young-Keup Kim	SYMP 4: Integrated System Design and Implementation	Feasibility Study of Reinforcement Learning Control for Magnetorheological Elastomer Based Tunable Vibration Absorber System
J3Z44	SMASIS-2434	Young-Keun Kim	Young-Keun Kim	STIVIT 4. III. LEGIALEG SYSTEM DESIGN AND IMPLEMENTATION	Noncontact/Remote Material Characterization Using Ultrasonic Guided
53101	SMASIS-2288	Zhaoyun Ma	Lingyu Yu	SYMP 5: Structural Health Monitoring	Wave Methods
53041	SMASIS-2222	7hongija Li	7hongija Li	SYMP 7: Energy Harvesting	Harnessing Kinetic Energy From Human Motions With a High-Efficiency Wearable Electromagnetic Energy Harvester
J3U41	SIVIASIS-2222	Zhongjie Li	Zhongjie Li	STIVIE 7. Energy marvesung	wearable electromagnetic energy narvester