

IMAC-XLIII | February 10-13, 2025 | Rosen Plaza Hotel (Orlando, FL)

		ROOM	Salon 8	Salon 9	Salon 10	Salon 11	Salon 12	Salon 13	Salon 14
MON	8:00-8:45 a.m.	Breakfast	NYE	DATA SCI	SENSORS & INST	BIO	METAMAT's, META	SYS ID	NONLINEAR
		Session #	1	2	3	4	5	6	7
		Session Title	Basics of Modal Analysis for the New/Young Engineer I	Advanced Techniques for Real-Time Monitoring and Predictive Analysis in Dynamic Systems	Instrumentation and Measurement Techniques	Dynamics of Biomedical and Bioinspired Systems	Vibration Control	System Identification I	Nonlinearities & Applications I
		Organizer (if a)	Marinone, Dilworth, Blough, Tim Marinone	Austin Downey	Chad Walber, Matt Stefanski	Sheyda Davaria			
		Chair(s)	Brandon Dilworth		Chad Walber	Eleonora Maria Tronci	Caleb Heitkamp	Steven Carter	Ludovic Renson
	9:00 a.m.	Paper 1	18507 - Walber	#18817 - Razmarashooli	#18490 - Hong	#18452 Milana	#18244 Košir	#18302 Liu	
	9:20 a.m.	Paper 2		#18524 - Ganeriwala	#18820 - Freeman	#18593 Paifelman	#18339 Tincani	#18351 Liu	#19037 - Tiso
	9:40 a.m.	Paper 3		#18809 - Yount	#18708 - Mains	#18640 Dukupati	#18664 Bukhari	#18926 Fladung	
	10:00 a.m.	Paper 4		#18886 - Thompson	#18713 - Hollins	#18831 Costa	#18673 Fischer	#18980 Amador	#18384 - Pacini
	10:20 a.m.	Paper 5			#18738 - Strait	#18908 Zwölfer	#18915 Cutolo	#18929 Coletti	#18185 - Andrus
	10:40-11:10 a.m.	Coffee Break							
	11:10 a.m.-12:30 p.m.	Keynote: Dr. Aydogan Ozcan—University of California, Los Angeles							
	12:30-1:50 p.m.	lunch on own IMAC Adv Bd Mtg Women in Structural Dynamics Lunch?							
		Session #	NYE	DATA SCI	SENSORS & INST	DYN SUBSTRUCT	METAMAT's, META	AIRCRAFT/AERO	NONLINEAR
			8	9	10	11	12	13	14
		Session Title	Basics of Modal Analysis for the New/Young Engineer II	AI-Driven Digital Twins for Systems Monitoring and Dynamic Characterization in Engineering	Data Acquisition and Signal Processing	Modal and Frequency-Based Substructuring	Metamaterials, Metastructures and Additive Manufacturing I	Dynamics of Aircraft/Aerospace Structures I	Nonlinearities & Applications II
		Organizer (if a)	Marinone, Dilworth, Blough, Mike Mains	Thomas Matarazzo	Chad Walber, Matt Stefanski	John Seymour	Ben Martins	Kevin Napolitano	Andrea Cammarano
		Chair(s)		Eleonora Tronci	Chad Walber	Domen Ocepek	David Epp	Eric Stasiunas	Steve Shaw
	1:50 p.m.	Paper 1	18985 - Dilworth	#18523 - Wetherington	#18717 - Hiatt	#18390 - Seymour	#18377 Rababah	#18239 Truong	#18610 - Cigeroglu
	2:10 p.m.	Paper 2		#18613 - Tronci	#18721 - Hiatt	#18508 - Denning	#18516 Black	#18501 Van Damme	#18504 - Binns
	2:30 p.m.	Paper 3		#18644 - Bull	#18744 - Peres	#18509 - Parker	#18545 Madrid	#18804 Stasiunas	#18584 - Hong
	2:50 p.m.	Paper 4	18335 - Marinone	#18678 - Chadha	#18971 - Ulriksen	#18553 - Page	#18654 Jammullamudy	#18549 Redmond	#18864 - Yuan
	3:10 p.m.	Paper 5		#18885 - Shen	#18993 - Walber	#18767 - Ocepek	#18918 Mostafavi Yazdi	#18720 Dinwiddie	#18967 - Syuhri
	3:30-4:00 p.m.	Coffee Break							
		Session #	NYE	DATA SCI	SENSORS & INST	DYN SUBSTRUCT	METAMAT's, META	AIRCRAFT/AERO	NONLINEAR
			15	16	17	18	19	20	21
		Session Title	Basics of Modal Analysis for the New/Young Engineer III	Data-Driven Techniques for Modeling, Monitoring and Population of Structures Design	Optical and Acoustic Sensing Technology	Real Time/Hybrid Substructuring & Case Studies	Metamaterials, Metastructures and Additive Manufacturing II	Dynamics of Aircraft/Aerospace Structures II	Industrial Applications
		Organizer (if a)	Marinone, Dilworth, Blough, Jon Furlich	Thomas Matarazzo	Chad Walber	Dan Rixen	Jason Blough	Kevin Napolitano	Mo Khan
		Chair(s)	Tim Marinone	Eleonora Tronci	Matt Stefanski	Richard Christenson	Bill Fladung	Eric Stasiunas	Robert Kuether
	4:00 p.m.	Paper 1	19041 (con't of 18335)	#18262 - Brennan	#18496 - Boles	#18344 - Zobel	#18409 Bukhari	#18525 Semke	#18512 - Xu
	4:20 p.m.	Paper 2	18787-Mains	#18397 - Cimpuiueru	#18942 - Rauchfuss	#18361 - Bonney	#18619 Woehler	#18576 Tipuric	#18668 - Ghosh
	4:40 p.m.	Paper 3		#18467 - Sarwar	#18960 - Walber	#18650 - Kist	#18635 Jonkeren	#18594 Ehrhardt	#18334 - Capiez-Lernout
	5:00 p.m.	Paper 4		#18589 - Brennan		#18655 - Hocrainger	#18659 Dorgant	#18690 Sobacki	#18837 - Saletti
	5:20 p.m.	Paper 5			18395 Pete Avitabile	#18880 - Wagner	#18755 Piwowarczyk	#18850 Johnson	#18867 - Langer
	6:00-7:00 p.m.	Student Meet & Greet							
	7:00-8:30 p.m.	Welcome Reception in Exhibit Hall							

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TUE	ROOM	Salon 8	Salon 9	Salon 10	Salon 11	Salon 12	Salon 13	Salon 14
8:00-8:45 a.m.	Breakfast	EXP TECH	COMP VIS	Tech App	DYN SUBSTRUCT	SYS ID	ROTATE MACHINE	NONLINEAR
	Session #	22	23	24	25	26	27	28
	Session Title	Experimental Techniques I	Computer Vision and SLDV I	Technology Applications I	Round Robin Test Bed	System Identification II	Rotating Machinery I	NNMs & Interactions I
	Organizer (if applies)	David Epp	Di Maio	Matt Stefanski	Andreas Linderholt	Bill Fladung	Brian Damiano	Ludovic Renson
	Chair(s)	van Tiggelen	van Tiggelen	Chad Walber	Dan Roettgen	Steven Carter	Babak Moaveni	Dane Quinn
9:00 a.m.	Paper 1	18623 Perez	#18322 Di Maio		# 18273 - Blackham	#18190 Brewick	#18279 Ozcelik	#18343 - Kuether
9:20 a.m.	Paper 2	18872 Alver	#18232 Castellini		# 18498 - Linderholt	#18565 Raviolo	#18469 Kuhr	
9:40 a.m.	Paper 3	18923 Martins	#18233 Castellini		# 18634 - Brunetti	#18672 Williams	#18606 Tufek	
10:00 a.m.	Paper 4	18643 Smith	#18683 Zhu		# 18614 - Korbar	#18963 Slimak	#18941 Virgin	#18781 - Balaji
10:20 a.m.	Paper 5	18928 Coletti			# 18648 - Brunetti	#18419 Chen	#18727 Trainotti	#18236 - Di Maio
10:40-11:40 a.m.	Coffee Break in Exhibit Hall							
11:40 a.m.-12:40 p.m.	Keynote: Dr. Michael Sutton-University of South Carolina							
12:40-2:30 p.m.	TD Meetings: All attendees welcome! (Lunch included)							
		EXP TECH	COMP VIS	Tech App	DYN SUBSTRUCT	CIVIL	ROTATE MACHINE	NONLINEAR
	Session #	29	30	31	32	33	34	35
	Session Title	Experimental Techniques II	Computer Vision and SLDV II	Technology Applications II	Joints & Mounts	Human Structure Interaction	Rotating Machinery II	NNMs & Interactions II
	Organizer (if applies)	Eric Little	Janko Slavič	Matt Stefanski	Francesco Trainotti	Hae Young Noh	Brian Damiano	Ludovic Renson
	Chair(s)		Ivan Tomac	Chad Walber	Ben Molnehauer	Rafaela da Silva	Babak Moaveni	Dane Quinn
2:30 p.m.	Paper 1	18431 Heitkamp	#18179 Capponi		# 18731 - Trainotti	#18561 - Avci	#18371 Banerjee	#18305 - Quinn
2:50 p.m.	Paper 2	18922 Martins	#18301 Bucher		# 18848 - Vega	#18532 - Gothard	#18906 Carassale	#18249 - Saunders
3:10 p.m.	Paper 3	18857 Wachtor	#18315 Zaletelj		# 18893 - Ferrier	#18625 - Ghaffarian Dallali	18936 Tribbiani	#18307 - Mohammadi
3:30 p.m.	Paper 4	18938 Vanali	#18353 Tomac		# 18897 - Jackson	#18754 - Wu	#18927 Inalpolat	#18264 - Porter
3:50-4:30 p.m.	Dessert Break in Exhibit Hall							
		SYS ID/Wind	COMP VIS	SENSORS & INST	DYN SUBSTRUCT	CIVIL	Highlights/Slavic	NONLINEAR
	Session #	36	37	38	39	40	41	42
	Session Title	System Identification III - Wind	Computer Vision and SLDV III	Data Acquisition Techniques	Dynamic Substructuring & DET	Dynamics of Bridges	Open-source Scientific Computing in Structural Dynamics	Experimental Methods I
	Organizer (if a		Zhu Mao	Chad Walber, Matt Stefanski		Bjørn Svendsen	Janko Slavič	
	Chair(s)	Todd Griffith	Dario Di Maio	Matt Stefanski	Steve Carter	Bjørn Svendsen	Janko Slavič	Ben Pacini
4:30 p.m.	Paper 1	#18210 Nunez	#18331 Damiani	#18705 - Mains	#18372 - Carter	#18230 - Motamedi	#18771 Slavič	#18316 - Hippold
4:50 p.m.	Paper 2	#18213 Astroza	#18858 Kim	#18548 - Furlich	#18518 - Kreutz	#18582 - Kvale	#18768 Zaletelj	#18319 - Rezaee
5:10 p.m.	Paper 3	#18541 Amer	#18449 Zeng	#18345 - Zobel	#18577 - Wu	#18751 - Aggarwal	#18766 Ocepek	#18328 - Shen
5:30 p.m.	Paper 4	#18761 Li	#18688 Yuan	#18661 - Brambilla	#18728 - Perez	#18609 - Tavares	#18470 Tomac	#18437 - Spits

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		ROOM	Salon 8	Salon 9	Salon 10	Salon 11	Salon 12	Salon 13	Salon 14	
WED	8:00-8:45 a.m.	Breakfast	MODAL	COMP VIS	MVUQ	DYN ENVIRONMENT	CIVIL	SHM	NONLINEAR	
		Session #	43	44	45	46	47	48	49	
		Session Title	Modal Topics I	CV & Digital Twin	Model Form Uncertainty and Selection including Round Robin Challenge	DET and Dynamic Substructuring	Dynamics of Buildings	Machine Learning in SHM I	Nonlinear System Identification I	
		Organizer (if a)	Kevin Napolitano	Javad Baqersad	Roland Platz, Alana Lund	Yiwen Dong	Yiwen Dong	Antonio De Luca	Nevzat Özgüven	
		Chair(s)	Kevin Napolitano Jon Furlich	Javad Baqersad Ed Habtour	Roland Platz Alana Lund	Adam Bouma Marcus Behling	Carlos Ventura	Dimitrios Giagopoulos	Gaetan Kerschen	
	9:00 a.m.	Paper 1	#18406 - Napolitano	#18913 Collier	18875, Lund	#18578 - Araújo	19036 - Spencer (KEYNOTE)	18572 Giagopoulos	#18196 - Worden	
	9:20 a.m.	Paper 2	#18404 - Napolitano	#18919 Mostafavi Yazdi		#18271 - Beale		18573 Giagopoulos		
	9:40 a.m.	Paper 3	#18473 - Park	#18924 Baqersad	18471, Bandy	#18465 - Behling	18677 - Shirzadi	18700 Xi		
	10:00 a.m.	Paper 4	#18547 - Furlich	#18911 Silva	18436, Mohan Kumar	#18538 - Matthews	18828 - Zhang	18722 De Luca	#18684 - Shetty	
	10:20 a.m.	Paper 5	#18174 - Staiger	#18602 Masmeijer	18536, Mirfarah	#18368 - Haynes	18340 - Rifai		#18492 - Taslicay	
	10:40-11:20 a.m.	Coffee Break in Exhibit Hall								
			Modal	COMP VIS	MVUQ	DYN ENVIRONMENT	CIVIL	SHM	NONLINEAR	
		Session #	50	51	52	53	54	55	56	
		Session Title	Experimental	CV for Civil Structures	Uncertainty Quantification in Sensing Systems	BARC: Past, Present and Future	Dynamics of Rail and Offshore Structures	Machine Learning in SHM II	Nonlinear System Identification II	
		Organizer (if a)	Aimee Frame	Alessandro Sabato, Tengjiao	Scott Cogan, Scott Ouellette	Troy Skousen	Knut Andreas Kvåle	Mark Richardson	Nevzat Ozguven	
		Chair(s)	Özge Akar	Tengjiao Jiang	Scott Cogan	Umberto Musella	Piervincenzo Rizzo	Keith Worden	Gaetan Kerschen	
	11:20 a.m.	Paper 1	# 18901 Rice	#18323 Wang	18910, Papadimitriou	#18946 - Hammill	18342 - Rizzo	18675 Poole	#18632 - Martinelli	
	11:40 a.m.	Paper 2	# 18898 Omid Soroor	#18839 Bottalico	18468, Lefemmine	# 18396 - Avitabile	18612 - Tronci	18773 Tatsis	#18391 - Pfister	
	12:00 p.m.	Paper 3	#18758 Will	#18497 Bottalico	18486, Paprocki	#18365 - Karlicek	18410 - Shid-Moosavi	18907 Wang	#18528 - Allen	
	12:20 p.m.	Paper 4	# 18939 Nagesh	#18557 Avci	18730, Reymert		18588 - Page	18992 Worden	#18388 - Çelik	
	12:40-2:00 p.m.	IMAC Awards Luncheon								
			MODAL	COMP VIS	MVUQ	DYN ENVIRONMENT	CIVIL	SHM	NONLINEAR	
		Session #	57	58	59	60	61	62	63	
		Session Title	Modal Topics II	CV and AI	Bayesian Methods for Structural Health Monitoring	Env Definition and Shaker DET	Structural Vibration and Control I	Machine Learning in SHM III	Nonlinear System Identification III	
		Organizer (if a)	Jacquelyn Moore	Alessandro Sabato	Saeed Eftekhar Azam, Eleni	Thomas Brown	Scott Harvey, Nicholas	Keith Worden	David Najera	
		Chair(s)	Luke Jurmu	Alessandro Sabato	Nikolaos Dervilis	Tyler Schoenherr	Scott Harvey	Mark Richardson	Alex Elliott	
	2:00 p.m.	Paper 1	18165 - Amer	#18725 Kulkarni	18510, Moaveni	#18186 - Schoenherr	18676 - Hruby	18362 Culla	#18894 - Van Damme	
	2:20 p.m.	Paper 2	18412 Figueroa	#18851 Chong	18746, Simbort Zeballos	#18425 - Johnson	18921 - Harvey	18883 Jones	#18489 - Quinn	
	2:40 p.m.	Paper 3	18430 do Cabo	#18856 Ryu	18803, Xu	#18237 - Edralin	18896 - Nonis	18269 Richardson	#18460 - Xavier	
	3:00 p.m.	Paper 4	18476 Panigrahi	#18596 LoRe Starleaf	18765, Simbort Zeballos	#18358 - Dal Borgo	18451 - Sadeqi	18378 Rababah	#18321 - Bacci	
	3:20-3:50 p.m.	Coffee Break								
			MODAL	COMP VIS	MVUQ	DYN ENVIRONMENT	CIVIL	SHM	NONLINEAR	
		Session #	64	65	66	67	68	69	70	
		Session Title	Modal Topics - LANL	Computer Vision and SLDV IV	Surrogate Modeling	Fixture Neutralization and Design	Structural Vibration and Control II	Signal Processing/Prediction for SHM I	Experimental Methods II	
		Organizer (if a)	Peter Fickenwirth	Zhu Mao	Kyle Neal, Zhen Hu	Cora Taylor	Scott Harvey, Nicholas	Saeed Eftekhar Azam	Ben Pacini	
		Chair(s)	John Schultze	Dario Di Maio	Zhen Hu	Jim DeClerck	Nicholas Wierschem	Wolfgang Witteveen	Ludovic Renson	
	3:50 p.m.	Paper 1	# 18228 Anghel	#18660 Hockrainer	18243, Qian	#18422 - Skousen	18300 - Markis (KEYNOTE)	18206 Witteveen	#18463 - Ristic	
	4:10 p.m.	Paper 2	# 18474 Ramirez	#18861 Brøns	18312, Zhao	#18542 - Matthews		18221 Ulriksen	#18559 - Swan	
	4:30 p.m.	Paper 3	# 18665 Sedillo	#18227 Yang	18706, Mahadevan	#18698 - Taylor	18866 - Chang	18575 Tsialiamanis	#18962 - Slimak	
	4:50 p.m.	Paper 4	# 18712 Prisbrey	#18434 Eitner	18791, Neal	#18703 - Taylor	18815 - Abolghasemi	18579 Lindley	#18220 - van Tiggelen	
	5:10 p.m.	Paper 5	# 18884 Sedillo	#18466 Winterhoff	18242, Qian		18920 - Harvey	18618 Farhadi	#18786 - Fochler	
	5:30-6:45 p.m.	Panel: Academic Careers: What It's Like and How to Succeed								
	7:00-10:00 p.m.	IMAC Social Event (off-site)								

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THUR	8:00-8:45 a.m.	ROOM Breakfast	Salon 8 MODAL	Salon 9 COMP VIS	Salon 10 MVUQ & Data Sci	Salon 11 DYN ENVIRONMENT	Salon 12 CIVIL	Salon 13 SHM	Salon 14 NONLINEAR
		Session #	71	72	73	74	75	76	77
		Session Title	Modal Vendor Presentations	CV of Rotating Structures	Uncertainty Quantification in Digital Twin and Data-Driven Models	MIMO DET I	Structural Health Monitoring	Signal Processing/Prediction for SHM II	Numerical Methods I
		Organizer (if a)	Mike Mains		Garrison Flynn, Thomas Matarazzo	Matthew Whelan	Matthew Whelan	Saeed Eftekhari Azam	Nidish Narayanaa Balaji
		Chair(s)		Dan Rohe	Thomas Matarazzo	Shannon Danforth	Matthew Whelan	Saeed Eftekhari Azam	Nidish Narayanaa Balaji
	9:00 a.m.	Paper 1	#18270 Richardson	#18590 Occhipinti	18280, Auzanneau	#18274 - Schultz	18716 - Duran	18193 Kullaa	#18209 - Witteveen
	9:20 a.m.	Paper 2	#18294 Beljan	#18624 Occhipinti	18381, Najera	#18287 - Proner	18999- Chaudhary	18225 Sibille	#18484 - Bagheri
	9:40 a.m.	Paper 3	#18734 Nelson	#18622 Ricaurte	18445, Tsialiamanis	#18799 - Kramer	18387 - Gallegos	18855 Toledo Aponte	#18826 - Renson
	10:00 a.m.	Paper 4	#19010 Hueskens	#18868 Lee	18481, Flynn	#18376 - Daniels	18417 - Shid-Moosavi	18900 Hoda	#18592 - Gross
	10:20 a.m.	Paper 5	18530 Perrier	#18902 Koushik	18598, Walsh	#18806 - Danforth	18860 - Kong	18487 Parker	#18581 - Durmaz
	10:40-11:10 a.m.	Coffee Break							
		Session #	78	79	80	81	82	83	84
		Session Title	Modal Topics III	Beyond CV	Uncertainty Quantification and Propagation in Structural Dynamics I	MIMO DET II	Structural Health Monitoring / Digital Twinning	Modal/Input Identification for SHM	Numerical Methods II
		Organizer (if a)			Babak Moaveni, Costas Papadimitriou				
		Chair(s)	Jason Cook	Javad Baqersad	Babak Moaveni	Brandon Zwink	Fernando Moreu	Marcello Vanali	Nidish Narayanaa Balaji
			Joshua Mills	Klemen Zaletelj	Costas Papadimitriou	Clayton Morgan	Anika Sarkar	Stefano Manzoni	Johann Gross
	11:10 a.m.	Paper 1	18505 Gulkanov	#18407 Abila	18810, Denimal Goy	#18373 - Haynes	18881 - Duran	18291 Le	#18604 - Cigeroglu
	11:30 a.m.	Paper 2	18529 Perez	#18355 Mastrodicasa	18499, Shirzadi	#18205 - Proner	18697 - Iacussi	18379 Daniels	#18666 - Celiksoz
	11:50 a.m.	Paper 3	18628 Bartlett	#18511 Taslicay	18366, Maji	#18276 - Cross	19002 - Chen	18567 Perišić	#18405 - Pitzal
	12:10 p.m.	Paper 4	18647 Hatzissawidis	#18537 Rohe	18726, Gres	#18295 - Throneberry	18750 - Coulibaly	18743 Chern	#18427 - Kwartar
	12:30 p.m.	Paper 5	18695 Perez	#18694 Masmeljer	18646, Marquez	#18383 - Cross	18546 - Sanayei	18937 Vanali	#18778 - Balaji
	12:50-1:50 p.m.	lunch - on own							
		Session #	85	86	87	88	89	90	91
		Session Title	Modal Topics IV	Computer Vision and SLDV V	Uncertainty Quantification and Propagation in Structural Dynamics II	Transient DET	Digital Twinning	SHM Applications: Bridges and Wind Turbines	Joints - Numerical methods
		Organizer (if a)			Babak Moaveni, Costas Papadimitriou		Eleonora Tronci, Masoud		
		Chair(s)	Jason Cook	Dario Di Maio	Costas Papadimitriou	David Soine	Eleonora Tronci	Matt Allen	Matthew Brake
			Joshua Mills	David Mascarenas		Pablo Tarazaga	Babak Moaveni		Christoph Schwingshackl
	1:50 p.m.	Paper 1	#18657 Liang	#18852 Bryant	18739, Cronin	#18337 - Soine	18933 - Ventura	18250 Taze	#18267 - Dhar
	2:10 p.m.	Paper 2	#18909 Cavus	#18710 Zhu	18752, Dabbaghchian	#18367 - Bouma	18526 - Moaveni	18281 Svendsen	#18350 - Lehmköster
	2:30 p.m.	Paper 3	#18729 Rasmussen	#18667 Mascarenas	18562, Cianci	#18534 - Turner	18795 - Hwang	18398 Zeng	#18359 - Linder
	2:50 p.m.	Paper 4	#18756 Whitworth	#18482 Ribeiro	18566, Stoura	#18535 - Turner	18740 - Marasco	18423 Abila	#18597 - Durmaz
	3:10 p.m.	Paper 5	#18742 Hahn		18975, Giannini	#18426 - Alvis	18707 - Mahadevan	18444 B R	#18802 - Kelly