2025 IRCOBI ASIA CONFERENCE, IIT MADRAS					
	TTJ Auditorium, IC&SR, IITM				
Day 1, 25 June 2025					
9:00		Registration			
		Session [W1] Workshop on Experimental and Computational Injury Biomechanics			
		Chair(s): Mats Svensson, Chalmers, SE & Peter Cripton, UBC, CA			
10:00	Mats Svensson, Chalmers, SE	[WT1] Introduction and Overview			
10.15	Francisco José López Valdés, Comillas, ES	[WT2] Understanding the role of Post-mortem Human Subject testing in Injury Biomechanics			
10.45	Claire F. Jones, Univ. Adelaide, AU	[WT3] Injury biomechanics investigations using body-component models			
11:15		Coffee Break and Networking			
11:30	Johan Davidsson, Chalmers, SE	[WT4] Experiments with Volunteers			
12:00	Peter Cripton, UBC, CA	[WT5] Human Imaging Studies in Injury Biomechanics			
12:30		[P01] Panel			
13:15		Lunch & Networking Session			
14:30	Mats Svensson, Chalmers, SE	[WT6] Experiments with Animal Surrogates			
15:00	Nils Lubbe, Autoliv, SE	[WT7] From experimental data to injury risk functions			
15:30		Coffee Break and Networking			
15:45	Christoph Leo, TU Graz, AT	[WT8] Simulation-Based Safety Assessment: Virtual Testing focusing on Vulnerable Road Users			
16:15	Aditya Belwadi, Tesla, US	[WT9] Human Body Simulations in OEMs			
16:45		[P02] Panel			
18:00		Social Program (18.00 CLT), Registration (19.30-20.30), Welcome Dinner (19.30 onwards)			
0.00		Day 2, 26 June 2025			
6:00		IITM Campus Nature Walk (Optional)			
8:00		IITM Campus Nature Walk (Optional) Registration			
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		Chair: Christoph Leo, TU Graz, AT		
12:05	Qiang Wang, Hunan University, Changsha, China	[IRC-A-25-15] Kinematic and Kinetic Analysis of the Lumbar and Pelvis of Highly Reclined Occupants Under Varied Rigid Seat Configurations Using a Human Body Model		
12:15	, , , , , ,	[IRC-A-25-16] Comparison of kinematic response between MADYMO Human Body Model and PMHS in reclined posture		
12:25		[IRC-A-25-17] Chest Response to Steering Wheel Lower Rim Impact: Comparative Analysis of THOR-50M and GHBMC Models		
12:35		[IRC-A-25-18] Improving Shoulder Injury Index of WorldSID Dummy using CAE Parametric Studies in 32 km/h Oblique Pole		
12:45	•	[IRC-A-25-19] Frontal Loading Parametric Sensitivity Analysis on the 50th Percentile Male HBM Connect		
12:55	•	Discussion		
13:05	Lunch & Networking Session			
	Session [T1] Sports Biomechanics and Injury			
	Chair: Peter Cripton, UBC, CA			
14:00	Rajinikumar Palanyiappan, TPESU, IN	[IT1] Decoding the Science of Injury Biomechanics in Sports		
14:15		[IT2] Head Exposure to Acceleration Database in Sport (HEADSport)		
14:30		[IT3] When Springs Fail: Decoding Biomechanical Injuries in Runners through Strike Pattern Dysfunction & sEMG Insights		
14:45		[IT4] Biomechanics in Facial Fractures: Patterns and Causes in Road Traffic Accidents		
15:00		Discussion		
15:15		Coffee Break & Networking		
		Session [S3] Design of Safety Systems [Session Sponsor: SBL]		
		Chair: Johan Davidsson, Chalmers, SE		
15:45	Prathamesh Mahesh Dehadray, Volvo, IN	[IRC-A-25-20] Simulation-driven design optimisation of instrument panel to improve upper leg injury of occupant in truck collision		
15:55	Shashank Gowda, Autoliv, IN	[IRC-A-25-21] Evaluation of a One Size Fits All Motorcycle Airbag Concept using Finite Element Human Body Models		
	P M Shedolkar & B G Biju, Tata Motors, IN	[IRC-A-25-22] Vehicle structural crash robustness evaluation though Machine Learning approach		
16:15	Qing Zhou, Tsinghua Univ., CN	[IRC-A-25-23] Effectiveness of Active Restraint System Activated in Emergency Braking on Occupant's Whiplash Injury in Subsequent Rear-end Collision		
16:25		[IT5] Computational approach for realisation of rehabilitative exoskeletons to prevent musculoskeletal injuries		
16:40		[ST1] Behavior of Variant Human Body models on different restraint systems		
16:50	,	Discussion		
17:45		Buses leave for Social Program + Conference Banquet		
		Day 3, 27 June 2025		
8:30		Registration		
		Session [S4] Computational Biomechanics		
	Chair: Qing Zhou, Tsinghua Univ., CN			
9:00	Qing Zhou, Tsinghua Univ., CN	[IT6] Influence of walking on knee ligament injuries in car-to-pedestrian collisions		
9:15	Sushil Kumar, IITD, IN	[IRC-A-25-24] The influence of personalization of the Finite Element Head model in predicting TBI		
9:25	Ryan D. Quarrington, Univ. Adelaide, AU	[IRC-A-25-25] The effect of head-forward posture on risk of lower neck dislocation during head-first impacts: A computational investigation		
9:35	Ashutosh Khanna, VIT Bhopal, IN	[IRC-A-25-26] Biomechanical Evaluation of Lumbar Intervertebral Discs Using Novel Intervertebral Artificial Disc : A Finite Element Analysis Study		
9:45	Febin Chris Asir J A, VIT Chennai, IN	[IRC-A-25-27] Effectiveness of a standalone cage in a cervical spine – A finite element study		
9:55	Swathy Gopal N, IITG, IN	[IRC-A-25-28] Biomechanical Assessment of Shoulder Implants: A Comparative Study Using FE Analysis		
10:05	Subin P George, IITM, IN	[IRC-A-25-29] Sensitivity analysis of a morphological finite element L3-L4 FSU for biomechanical responses		
10:15	Kushagra Kumar, VIT Chennai, IN	[IRC-A-25-30] Sensitivity Study of Upper Spine Ligaments for a Head and Neck Finite Element Model		
	Discussion			
10:25		Discussion		

	Session [K2] Dinesh Mohan Memorial Lecture		
	Chair: Mats Svensson, Chalmers, SE		
11:00	Anoop Chawla, IITD, IN	[KT2] Need for Crash Research in India, and our experiences on the Delhi Jaipur Highway	
	Session [S5] Accident Data Analysis [Session Sponsor: Volvo]		
	Chair: Nils Lubbe, Autoliv, SE		
11:35	Venkatesh Balasubramanian, IIT Madras, IN	[IT7] The Indian journey to data-driven Road Safety	
11:50	Aditya Belwadi, Tesla, US	[IT8] Crash Data Analysis with Tesla Database	
12:05	Guorong Li, Autoliv, SE	[IRC-A-25-31] Road Traffic Accident-Related Traumatic Brain Injuries in China: Influence of Seatbelt, Helmet Use and Crash Configuration Among Different Road Users	
12:15	Junaid Shaikh, Autoliv, IN	[IRC-A-25-32] Traumatic Brain Injuries for Different Road Users and Restraint Use: An Overview Using Indian In-Depth Crash Data	
12:25	Aarti Ranmal, Autoliv, IN	[IRC-A-25-33] Rider Injuries in Sport Utility Vehicle to Powered Two-Wheeler Crashes in India	
12:35	Chandrashekhar A, Tata Motors, IN	[IRC-A-25-34] An Accident Statistics driven adoption framework for ADAS in India	
12:45		Discussion	
13:00		Lunch & Networking Session	
		Session [S5] Continued	
	Chair: Girikumar Kumaresh, Bosch, IN		
14:00	Sivakumar, Autoliv & Sohanjeet, Volvo, IN	[IT9] Vision Zero Approach & SITIS: Activities in India as part of Accident Research / Connected Safe Transport Ecosystem	
14:15	Santhosh Kumar G, Tata Motors, IN	[IRC-A-25-35] Characteristics of Passenger Car Accidents in India	
14:25	Junaid Shaikh, Autoliv, IN	[IRC-A-25-36] Single-Vehicle Powered Two-Wheeler Crashes in India: Guidance for Test Method Development	
14:35	K M Pranesh Rao, RNTBCI, IN	[IRC-A-25-37] Factors influencing Traffic Accidents in Countries with Fast-growing Economy	
14:45		Discussion	
	Session [T2] New Car Assessment Program [Session Sponsor: VIT Chennai]		
		Chair: Rahul S Mahajan, ARAI, IN	
		Moderator: Girikumar Kumaresh, Bosch, IN	
	Christoph Leo, TU Graz, AT	[IT10] Euro NCAP Roadmap – What's New in 2026?	
15:00	Rahul S Mahajan, ARAI, IN	[IT11] BNCAP – Overview, Status and Future	
15:30		[P03] Panel: Rahul S Mahajan, ARAI, IN; Anoop Chawla, IITD, IN; Anil Kumar Chigulapalli, Tata Motors, IN; Christoph Leo, TU Graz, AT; Girikumar Kumaresh, Bosch, IN	
16:15		Conference Valedictory	
16:30		High Tea	
17:00		Resrearch Park / Lab / IITM Heritage Center Visits (Optional)	

		Time Guideline
	Regsitration/ Networking / Poster / Refreshment / Socials	
	Panel discussions	45 min
	Workshop sessions	25 min + Discussion at end of session
	Keynote talks	25 min + Discussion at end of session
	Invited talks	13 min + Discussion at end of session
	Sponsor talks	8 min + Discussion at end of session
	Contributed paper presentations	8 min + Discussion at end of session
Venue		

Registration	ICSR Corridor (in front of the TTJ Auditorium)
All technical sessions	ICSR Main Auditorium
Exibition / Stalls	Exhibition Hall
Poster presentation	Exhibition Hall
All Refreshments / Lunch / Dinner (25th June 2025)	Refreshments: Exhibition Hall; Lunch: ICSR Main Dining Hall
Social program on 25th June 2025	Central Lecture Theater (CLT)
Social program and Banquet Dinner on 26th June 2025	Coral Beach Resort, Mahabalipuram