

EVTec 2021 Preliminary Program

As of May 13, 2021 *Subject to Change without Notice

Date	Time	Room#	Program#	Paper#	Paper title	Moderator/Chair & Presenting author
May 24 (Mon.)	09:20-09:30	Room 1			Opening Ceremony	
May 24 (Mon.)	09:30-10:10	Room 1			Plenary Session 1	Moderator: Yoichi Hori (Tokyo University of Science)
			PL1.1	20214269	Present Japanese automotive industry and future trends of xEV	Hiroki Aoki Ministry of Economy, Trade and Industry
May 24 (Mon.)	10:10-10:50	Room 1			Plenary Session 2	Moderator: Makoto Uchida (University of Yamanashi)
			PL2.1	20214270	Hydrogen and Fuel Cell R&D in China	Jianbo Zhang Tsinghua University
May 24 (Mon.)	10:50-11:30	Room 1			Plenary Session 3	Moderator: Shigeharu Yamagami (Nissan Motor Co., Ltd.)
			PL3.1	20214271	Vision of Achieving Carbon Neutrality in 2050	Keiji Ohtsu Honda R&D Co., Ltd.
May 24 (Mon.)	12:30-13:50	Room 1			A1 (Special Session): Traction Motor for Evs	Chairs: Hiroya Sugimoto (Tokyo Denki University) & Kan Akatsu (Yokohama National University)
			A1.1	20214279	Development of Noise and Vibration Reduction for the Driving Motor in Electric Vehicles	Suguru Gangi TOYOTA MOTOR CORPORATION
			A1.2	20214280	Development of high efficiency low noise electric motor for electrified vehicle	Akihiro Tanaka Nissan Motor Co., Ltd.
			A1.3	20214281	Development of e-Axle with High-Power-Density PM Motor	Kiyoshi Uemura MEIDENSHA CORPORATION
			A1.4	20214282	Development of a Dual-mode Reluctance Motor for Electric Vehicle Applications	Kyohei Kiyota Tokyo Institute of Technology
May 24 (Mon.)	14:25-16:05	Room 1			A2 (Special Session): Advanced Drive Technologies for Electric Machines	Chairs: Kyohei Kiyota (Tokyo Institute of Technology) & Hideaki Arita (Mitsubishi Electric Corporation)
			A2.1	20214283	Flattening Radial Force Sum Method for Noise Reduction in Traction Switched Reluctance Motor	Candra Adi Wiguna Tokyo Institute of Technology
			A2.2	20214284	Torque Ripple Reduction Control of Switched Reluctance Motor with Operating Area Expandable Drive Circuit	Hiroki Goto Utsunomiya University
			A2.3	20214285	Temperature Visualization of Motor Using Wireless Sensing During Vehicle Running	Tatsuo Nishimura Mitsubishi Electric Corporation
			A2.4	20214286	Fault Tolerant Asymmetrical Six Phase Drive Controlled by Two Microprocessors	Shen Wang Nagoya University
			A2.5	20214287	Sensorless brushless motor start ability improvement by estimating initial position	Naoki Onosaka AISIN SEIKI Co., Ltd.
May 24 (Mon.)	16:20-17:40	Room 1			A3: Structure and Control of Electric Machines	Chairs: Junichi Asama (Shizuoka University) & Hiroki Goto (Utsunomiya University)
			A3.1	20214288	Development of High-Speed Motor with a Welding-Less Coil and High-Strength Rotor	Masanori Sawahata Hitachi, Ltd.
			A3.2	20214289	Pulse Injection and Rotation Characteristics of 1 kW-class AlNiCo Magnet Assisted Switched Reluctance Motor	Taketsune Nakamura Kyoto University
			A3.3	20214290	A Drive System with Low Noise and Vibration for a High-speed PMSM	Takafumi Hara Hitachi, Ltd.
			A3.4	20214291	Online Derivation of Control Parameters by Strength Pareto Evolutionary Algorithm 2 for Vibration Reduction in SRM	Kohei Umetsu Tokyo University of Science

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May 24 (Mon.)	12:30-13:50	Room 2	B1 (Special Session): Fuel Cell System and Vehicle			Chairs: Yoshiyuki Hashimasa (Japan Automobile Research Institute) & Hitoshi Igarashi (Volkswagen Group Japan KK)
			B1.1	20214292	Development of New Fuel Cell System - Fuel Cell System for the New Mirai -	Tsuyoshi Takahashi TOYOTA MOTOR CORPORATION
			B1.2	20214293	Application of Model Based Development to Product Fuel Cell Systems and Controller Design - Physical Modeling of the Entire Fuel Cell System and Implementation to Controller -	Shigeki Hasegawa TOYOTA MOTOR CORPORATION
			B1.3	20214294	Development of 70MPa Hydrogen System Fuel Cell Light-duty Truck (Vehicle Modification and Public Road Demonstration 2019, Part 2)	Kazuya Maita Tokyo R&D Co., Ltd.
			B1.4	20214295	Energy Management System for 70MPa Hydrogen System Fuel Cell Light-duty Truck	Shigeo Kishi PUES Corporation
May 24 (Mon.)	14:25-16:05	Room 2	B2 (Special Session): Fuel Cell Stack and Components			Chairs: Akihiro Iiyama (University of Yamanashi) & Kenichiro Ota (Fuel Cell Development Information Center / Yokohama National University)
			B2.1	20214296	Development of High-Performance and Low-Cost Second-Generation FC Stack	Yuta Ikehata TOYOTA MOTOR CORPORATION
			B2.2	20214297	Multi-Physics Simulation for the Next-Generation Toyota Fuel Cell Stack - Application of 3D CAE in Fuel Cell Stack Development -	Atsushi Yamamoto TOYOTA MOTOR CORPORATION
			B2.3	20214298	Highly Durable Fuel Cell Cathode Catalyst Layers using Tin Oxide Supports under Load Cycling Conditions	Chikara Takei Mitsubishi Motors Corporation
			B2.4	20214299	Model Based Development for Zero Emission Vehicles	Takumi Nunokawa SUBARU CORPORATION
B2.5	20214300	Development of High pressure hydrogen storage system for new FCV - Mass productivity improvement and production cost reduction -	Makoto Kojima TOYOTA MOTOR CORPORATION			
May 24 (Mon.)	16:20-17:20	Room 2	B3 (Special Session): Power Electronics Components			Chairs: Kenta Emori (Nissan Motor Co., Ltd.) & Kraisorn Throngnumchai (Kanagawa Institute of Technology)
			B3.1	20214301	CC/CV Mode with 2DOF Control of Three-Phase AC/DC DAB Converter Based on Matrix Converter	Kenji Natori Chiba University
			B3.2	20214302	A concept of onboard fast battery charging EVs connecting to DC power	Kazumasa Ide Hitachi Power Solutions Co., Ltd.
			B3.3	20214303	Considerations on DC-bus Current Ripple in Multi-level Dual Active Bridge Converter	Yasunobu Ueuchi Tokyo University of Science
May 24 (Mon.)	12:30-14:10	Room 3	C1 (Special Session): Cutting Edge of xEV System			Chairs: Eiji Kuroda (Japan Automobile Research Institute) & Jon Are Suul (SINTEF Energy Research / Norwegian University of Science and Technology)
			C1.1	20214304	Development of the Third-Generation Wireless In-wheel Motor	Osamu Shimizu The University of Tokyo
			C1.2	20214305	Development of New Electric Vehicle System for small SUV	Makoto Hirai TOYOTA MOTOR CORPORATION
			C1.3	20214306	Cornering Force Maximization with Variable Slip Ratio Control Based on Brush Tire Model	Hiroyuki Fuse The University of Tokyo
			C1.4	20214307	Development of an Electric Vehicle with a High-Power Photovoltaic System	Yosuke Tomita Nissan Motor Co., Ltd.
C1.5	20214308	An Innovative 2W Hybrid Concept A compact non plug-in hybrid platform for augmenting performance and fuel economy of single cylinder engines – ‘DVI’	Ashwin Kaundinya Automotive Research Association of India			

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May 24 (Mon.)	14:25-15:25	Room 3	C2 (Special Session): Connected and Autonomous Technologies on Next Generation xEV			Chairs: Takeshi Kato (Honda R&D Co.Ltd) & Valentin Ivanov (Technische Universität Ilmenau)	
			C2.1	20214309	Advanced Electric Vehicle Components for Long-Distance Daily Trips	Valentin Ivanov	Technische Universität Ilmenau
			C2.2	20214310	A dynamic game-based distributed approach for efficient cooperative traveling at an isolated intersection	Kaizheng Wang	Shanghai Jiao Tong University
			C2.3	20214311	Research Achievements and Future Perspectives of Electric Vehicle and Power Grid Integration	Yutaka Ota	Osaka University
May 24 (Mon.)	16:20-18:00	Room 3	C3 (Special Session): Advanced xEV Motion Control & Dynamics			Chairs: Hiroshi Fujimoto (The University of Tokyo) & Husam Muslim (Japan Automobile Research Institution / University of Tsukuba)	
			C3.1	20214312	Hill Ascent Descent Control for AWD Electric Vehicles	Shoto Arai	SUBARU Corp.
			C3.2	20214313	How Drivers Gender, Age, and Experience Affect Human-Automated Vehicle Interaction during Traffic Congestion on Highways	Husam Muslim	Japan Automobile Research Institution / University of Tsukuba
			C3.3	20214314	System Cost Optimization of e-Drives – Method and Application	Timo Wehlen	ZF Friedrichshafen AG
			C3.4	20214315	Development of New Plug-in Hybrid System for SUV	Makoto Tomita	TOYOTA MOTOR CORPORATION
			C3.5	20214316	Seamless Shifting in 2-Speed eAxle Integrated with Torque Sensor and Multifunctional Shifting Device	Shota Yamada	NSK Ltd.
May 25 (Tue.)	09:30-10:10	Room 1	Plenary Session 4			Moderator: Yukio Yokoi (Takushoku University)	
			PL4.1	20214272	Global Progress of Wireless Charging for Passenger and Commercial Vehicles	David Schatz	WiTricity Corporation
May 25 (Tue.)	10:10-10:50	Room 1	Plenary Session 5			Moderator: Hiroshi Fujimoto (The University of Tokyo)	
			PL5.1	20214273	GaN device as a key technology for realizing carbon neutral society	Hiroshi Amano	Nagoya University
May 25 (Tue.)	10:50-11:30	Room 1	Plenary Session 6			Moderator: Jun-ichi Itoh (Nagaoka University of Technology)	
			PL6.1	20214274	Nissan's Challenges for Sustainable Society	Toshihiro Hirai	Nissan Motor Co., Ltd.
May 25 (Tue.)	12:30-14:10	Room 1	D1 (Special Session): Wireless Power Transfer I			Chairs: Takashi Hikage (Hokkaido University) & Yukio Yokoi (Takushoku University)	
			D1.1	20214317	Geometric View to Class-E Operation of RF Power Inverters	Takashi Ohira	Toyohashi University of Technology
			D1.2	20214318	Power Transmission Characteristics of LCC Compensation Network to Coupling and Load Variation	Kodai Takeda	The University of Tokyo
			D1.3	20214319	Flying-capacitor Linear Amplifier with N-channel MOSFETs for Radiation Noise Reduction of Wireless Power Transfer System	Rintaro Kusui	Nagaoka University of Technology
			D1.4	20214320	Basic Study of Integrated On-board Converter for Dynamic WPT EV	Ryosuke Ota	Tokyo University of Science
			D1.5	20214321	Efficiency Maximization of Wireless Power Transfer Systems with Resonance Frequency Mismatch	Katsuhiro Hata	The University of Tokyo

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May 25 (Tue.)	14:25-16:05	Room 1	D2 (Special Session): Wireless Power Transfer II			Chairs: Katsuhiko Hata (The University of Tokyo) & Takashi Ohira (Toyohashi University of Technology)	
			D2.1	20214322	A Study on Optimization of Wireless Power Transmission Ferrite-less Coils in the 85 kHz Band by Numerical Analysis	Yuto Yamada	Tokyo University of Science
			D2.2	20214323	Development of thin sheet coil for EV-WPT - Proposal of a new type coil unit -	Masato Okabe	Dai Nippon Printing Co., Ltd.
			D2.3	20214324	Coil Performance and Evaluation of Pavement Durability of Dynamic Wireless Power Transfer System using Ferrite-less and Capacitor-less Coil for Road Construction Methods	Takehiro Imura	Tokyo University of Science
			D2.4	20214325	Geometric Coverage Evaluation for Variable Impedance Tuners in View of Poincaré Distance on the Smith Chart	Asako Suzuki	Fujiwaves CO.,LTD.
			D2.5	20214326	Conditions for maximum energy transfer in inductive road-powered electric vehicle applications taking system limitations into account	Giuseppe Guidi	Sintef Energy Research
May 25 (Tue.)	12:30-13:50	Room 2	E1 (Special Session): Energy Storage Devices & Systems I Next-Generation Batteries and Capacitors			Chairs: Chihiro Yada (TOYOTA MOTOR CORPORATION) & Hiroyuki Akashi (Envision AESC Japan Ltd.)	
			E1.1	20214327	Advanced Analytical Techniques for All-solid-state Batteries	Keigo Atobe	NISSAN ARC, Ltd
			E1.2	20214328	Investigation on the thermal behavior of all-solid-state batteries with sulfide electrolytes	Mitsumoto Kawai	LIBTEC
			E1.3	20214329	Li-ion Battery in All Solid State toward High Energy and Power Densities: Focus on Lithium Superionic Conductor as Key Material	Satoshi Hori	Tokyo Institute of Technology
			E1.4	20214330	Development of high-power energy storage devices for future automotive applications	Shuichi Ishimoto	Nippon Chemi-Con Corporation
May 25 (Tue.)	14:25-15:45	Room 2	E2 (Special Session): Energy Storage Devices & Systems II Systems and Applications			Chairs: Kenji Natori (Chiba University) & Noriko Yoshizawa (National Institute of Advanced Industrial Science and Technology (AIST))	
			E2.1	20214331	Residual performance evaluation of Lithium-ion batteries for their secondary use - Fast and reliable methodology based on electrochemical impedance spectroscopy -	Takumi Mori	HIOKI E.E. CORPORATION
			E2.2	20214332	Development of Battery Characteristic State-evaluation Method Using High-speed Pulse Measurement	Noboru Oyama	EnNet Co., Ltd., Lab. 307 at Tokyo metropolitan industrial technology research institute
			E2.3	20214333	New Lithium-ion Battery System for Nissan KICKS e-POWER	Kenji Ohara	Nissan Motor Co., Ltd.
			E2.4	20214334	Overview of Applications of Energy Storage System to Rail Vehicle Traction	Hiroyasu Kobayashi	Waseda University
May 25 (Tue.)	16:20-17:20	Room 2	E3 (Special Session): Energy Storage Devices & Systems III Lithium-ion Battery Technologies			Chairs: Daichi Imamura (Japan Automobile Research Institute) & Kazuhiro Sakuma (Materials Innovation Tsukuba, Inc.)	
			E3.1	20214335	Technology Trend and Future Prospect of Large Li-ion Battery	Hiroyuki Akashi	Envision AESC Japan Ltd.
			E3.2	20214336	Diagnosis of traction batteries in driving mode - Increasing the accuracy of battery state of charge estimation by using a multiple battery concept -	Jonas Maier	Research Institute of Automotive Engineering and Vehicle Engines Stuttgart (FKFS)
			E3.3	20214337	Development of Carbon Nanospheres as Negative Electrode in Lithium Ion Batteries with High Power Performance	Noriko Yoshizawa	National Institute of Advanced Industrial Science and Technology (AIST)

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May 25 (Tue.)	12:30-13:30	Room 3	F1: Safety and Security for E-mobility and Infrastructure			Chairs: Yasuo Matsunaga (Nissan Motor Co., Ltd.) & Takahiro Noyori (AVL JAPAN)			
			F1.1	20214338	Simulation Analysis of Automatic Braking System Performance Based on Improved TTC Model			Yanhui Xing	Jilin University
			F1.2	20214339	Virtual Test Drive Framework Real World to Virtual Road Network			Martin Kehrer	Research Institute of Automotive Engineering and Vehicle Engines Stuttgart (FKFS)
			F1.3	20214340	Functional Safety and Hazard Analysis as per ISO26262 for a Retrofit P3 Hybrid LCV Controller			Swapnil Ghugal	The Automotive Research Association of India
May 25 (Tue.)	14:25-15:45	Room 3	F2 (Special Session): Design, Evaluation and Related Technologies for Vehicles			Chairs: Yoshitaka Asakura (AYE) & Daisuke Gunji (NSK Ltd.)			
			F2.1	20214341	Distributed Local X-in-the-Loop Environment - A Tool for Electric Vehicle Systems Design -			Christoph Lehne	Technische Universität Ilmenau
			F2.2	20214342	Real Time Simulation of Motor Drive System Modeled in FPGA based Hardware-In-Loop Simulator - Dedicated architecture for 200ns simulation time step and 3.5ns PWM resolution -			Noriyasu Matsuno	Myway Plus Corporation
			F2.3	20214343	Powertrain Selection of Electrical Compressor vs Electrical Motor Using Hybrid Electrical Vehicle Modeling Tool (HEVMT)			Bo Yang	Booterr Consulting
			F2.4	20214344	Intelligent Vehicle Controller (iVCON) Platform for xEV			Ravindra Shah	The Automotive Research Association of India
May 25 (Tue.)	16:20-17:40	Room 3	F3 (Special Session): Energy Transmission Systems to Vehicles and Global Warming I			Chairs: Osamu Shimizu (The University of Tokyo) & Kenji Morita (Japan Automobile Research Institute)			
			F3.1	20214345	Development of Middle Speed Dynamic Wireless Power Transfer Simulation Test Bench			Daisuke Gunji	NSK Ltd.
			F3.2	20214346	V2B Vehicle to Building Charging Manager - Concept and Implementation -			Hibiki Saeki	Honda R&D Japan
			F3.3	20214348	Evaluation of a modular system topology for large-scale wireless EV charging in a commercial parking facility			Jon Are Suul	SINTEF Energy Research / Norwegian University of Science and Technology
			F3.4	20214349	Feasibility Study of Onboard PV for Passenger Vehicle Application - Influence of Vehicle Irradiance on Energy Balance of EV Energy Requirement and PV Generation -			Toshio Hirota	Waseda University
May 26 (Wed.)	09:30-10:10	Room 1	Plenary Session 7			Moderator: Yoshitaka Asakura (AYE)			
			PL7.1	20214275	Introduction of Chinese Standards for Electric Vehicle			Guibin Liu	China Automotive Technology and Research Center Co., Ltd. (CATRAC)
May 26 (Wed.)	10:10-10:50	Room 1	Plenary Session 8			Moderator: Kan Akatsu (Yokohama National University)			
			PL8.1	20214276	Novel Stator-Excited Synchronous Machines without Rare-earth Magnets for Electric Vehicles			Zi-Qiang Zhu	University of Sheffield
May 26 (Wed.)	10:50-11:30	Room 1	Plenary Session 9			Moderator: Daichi Imamura (Japan Automobile Research Institute)			
			PL9.1	20214277	Transformation into a Mobility Company			Shigeki Terashi	TOYOTA MOTOR CORPORATION

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May 26 (Wed.)	12:30-13:50	Room 1	G1 (Special Session): Wireless Power Transfer III			Chairs: Ryosuke Ota (Tokyo University of Science) & Keisuke Kusaka (Nagaoka University of Technology)
			G1.1	20214350	UL 2750 for Wireless Power Transfer - Safety and Correlation with SAE J2954 and IEC 61980 -	Joe Bablo UL LLC
			G1.2	20214353	Unveil of High Efficient Transfer Mechanism and Noticeable Characteristic of Resonant Wireless Power Transfer Systems	Atsuo Hatono University Kuala Lumpur
			G1.3	20214352	High-power and Long-distance transmission Using the Electric Field Resonance	Kazyoshi Hada Furukawa Electric Co., Ltd.
			G1.4	20214351	Future Mobility with Wireless Power Technology	Naoki Shinohara Kyoto University
May 26 (Wed.)	14:25-15:45	Room 1	G2 (Special Session): Wireless Power Transfer IV			Chairs: Naoki Shinohara (Kyoto University) & Giuseppe Guidi (Sintef Energy Research)
			G2.1	20214354	Novel Evaluation Method for Leakage Electromagnetic Field Using Coil Scaling Law for Wireless Power Transfer System for Electric Vehicle	Hayato Sumiya DENSO CORPORATION / The University of Tokyo
			G2.2	20214357	Development of Short-Term High Magnetic Field Generator for Biological Evaluation against Wireless Power Transfer Systems for Electrical Vehicles	Kazuki Matsubara Tokyo Metropolitan University
			G2.3	20214355	Standardization of Exposure Assessment Methods of Wireless Power Transfer for Electric Vehicles	Kanako Wake National Institute of Information and Communications Technology
			G2.4	20214356	Active Implantable Medical Device EMI Estimation for EV-Charging WPT System Based on Measurement and 3D Numerical Analysis	Takashi Hikage Hokkaido University
May 26 (Wed.)	12:30-13:30	Room 2	H1 (Special Session): Power Electronics Component and System Technologies			Chairs: Hiromichi Imai (Honda Motor Co., Ltd.) & Satoshi Yasuda (TOYOTA MOTOR CORPORATION)
			H1.1	20214358	Newly developed technologies of Power Control Unit for various electrified vehicles	Toshio Ikeyama TOYOTA MOTOR CORPORATION
			H1.2	20214359	GEN3 Power Control Unit for Small Hybrid Vehicle	Kenichi Takebayashi Hitachi Astemo, Ltd.
			H1.3	20214360	PWM control method to improve the voltage utilization rate of the inverter	Takeshi Kuroda Fuji Electric Co., Ltd.
May 26 (Wed.)	14:25-15:45	Room 2	H2 (Special Session): Power Semiconductor and Packaging Technologies			Chairs: Shigeharu Yamagami (Nissan Motor Co., Ltd.) & Michiaki Hiyoshi (Hyundai Motor Japan R&D Center, Inc.)
			H2.1	20214361	Design of Semiconductor/Insulator Interfaces in SiC Trench MOSFETs to Improve Power Efficiency of Electric/Hybrid Vehicles	Katsuhiko Kutsuki TOYOTA CENTRAL R&D LABS., Inc.
			H2.2	20214362	1.2-kV Double-Sided Direct-Cooling Power Module for EV Traction Inverter	Takeshi Tokuyama Hitachi, Ltd.
			H2.3	20214363	High Performance and Reliable Si Power Devices with double side Cu plate	Tatsuya Ohguro Toshiba Electronic Devices & Storage Corporation
			H2.4	20214364	Effects of crystalline defects on degradation of SiC devices	Masashi Kato Nagoya Institute of Technology

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May 26 (Wed.)	12:30-14:10	Room 3			I1: Energy Transmission Systems to Vehicles and Global Warming II	Chairs: Yutaka Ota (Osaka University) & Nobunori Okui (National Traffic Safety and Environment Laboratory)
			I1.1	20214365	CharIN e.V. – Harmonization of a global EV charging standard from vehicle to grid to high power charging	Jacques Borremans CharIN e.V. Asia.
			I1.2	20214366	Commercial Vehicle Predictive Cruise Control Algorithm Based on Dynamic Programming	Yiran Ding Jilin University
			I1.3	20214367	Online DC-driven Long-distance Heavy-duty Transportation System Based on Electric Highway System	Gaoxin Bi Jilin University
			I1.4	20214368	Rule-Based Energy Management Strategy for Hybrid System of Heavy Commercial Vehicle	Xiaozhi Li Jilin University
			I1.5	20214369	MAHLE Urban Mobility Concept - Design and Validation of a 48 V Urban Mobility Vehicle for the Future -	Mike Bassett MAHLE Powertrain Limited
May 26 (Wed.)	16:00-16:45	Room 1			Keynote Speech	Moderator: Takashi Majima (IHI Inspection & Instrumentation Co., Ltd.)
			KN.1	20214278	A Study of the Role of EVs' Batteries in Achieving a Significant Reduction of CO2 Emissions	Takafumi Anegawa Tokyo Electric Power Company Holdings, Inc.
May 26 (Wed.)	16:45-17:05	Room 1			Awards & Closing Ceremony	