VEH 2026

The 7th International Conference on Vibration and Energy Harvesting Applications

July 3-6, 2026 | Guangzhou, China

Conference Handbook

香港科技大學(廣州)
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANGZHOU)

https://veh.hkust-gz.edu.cn/

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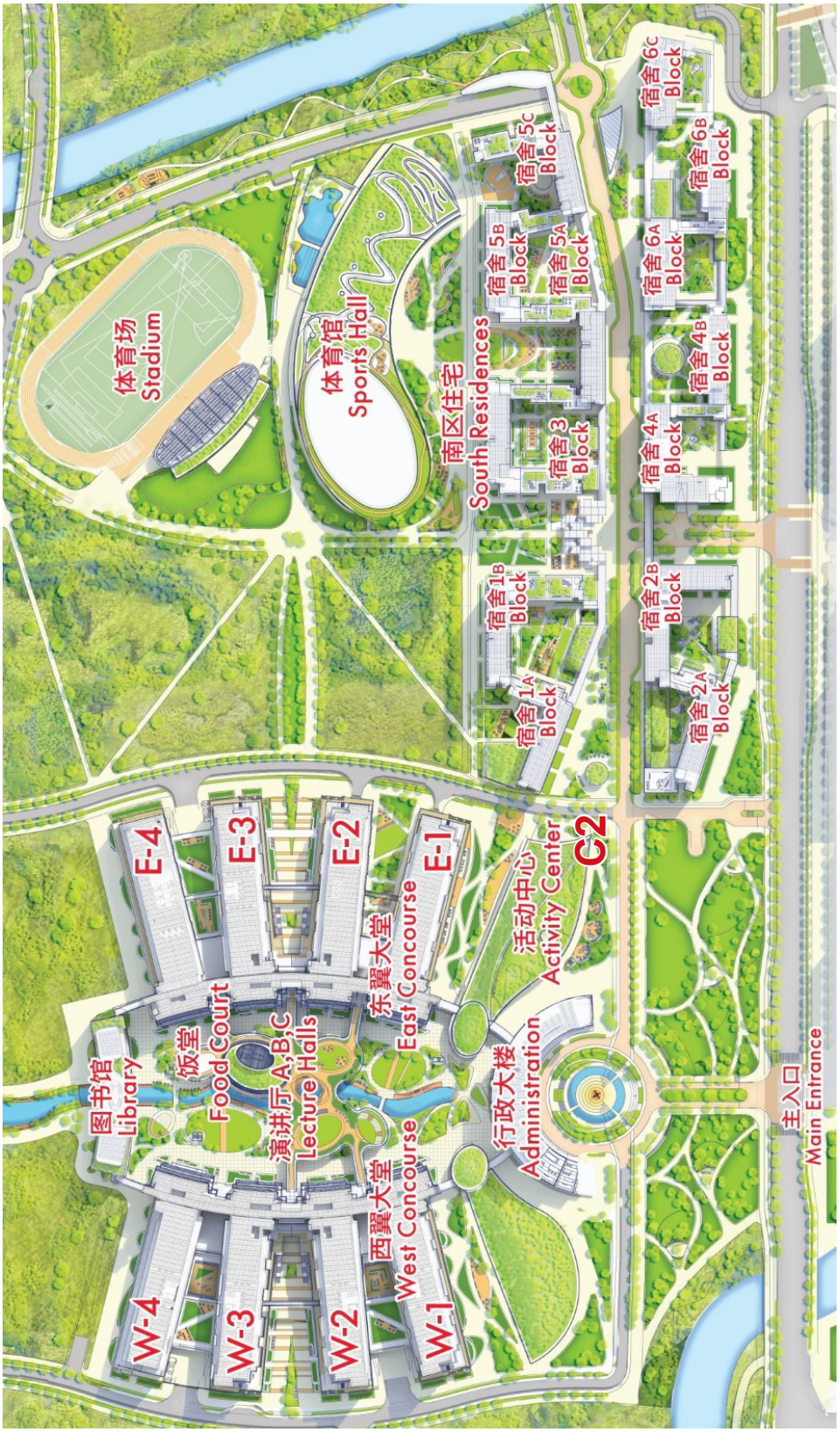
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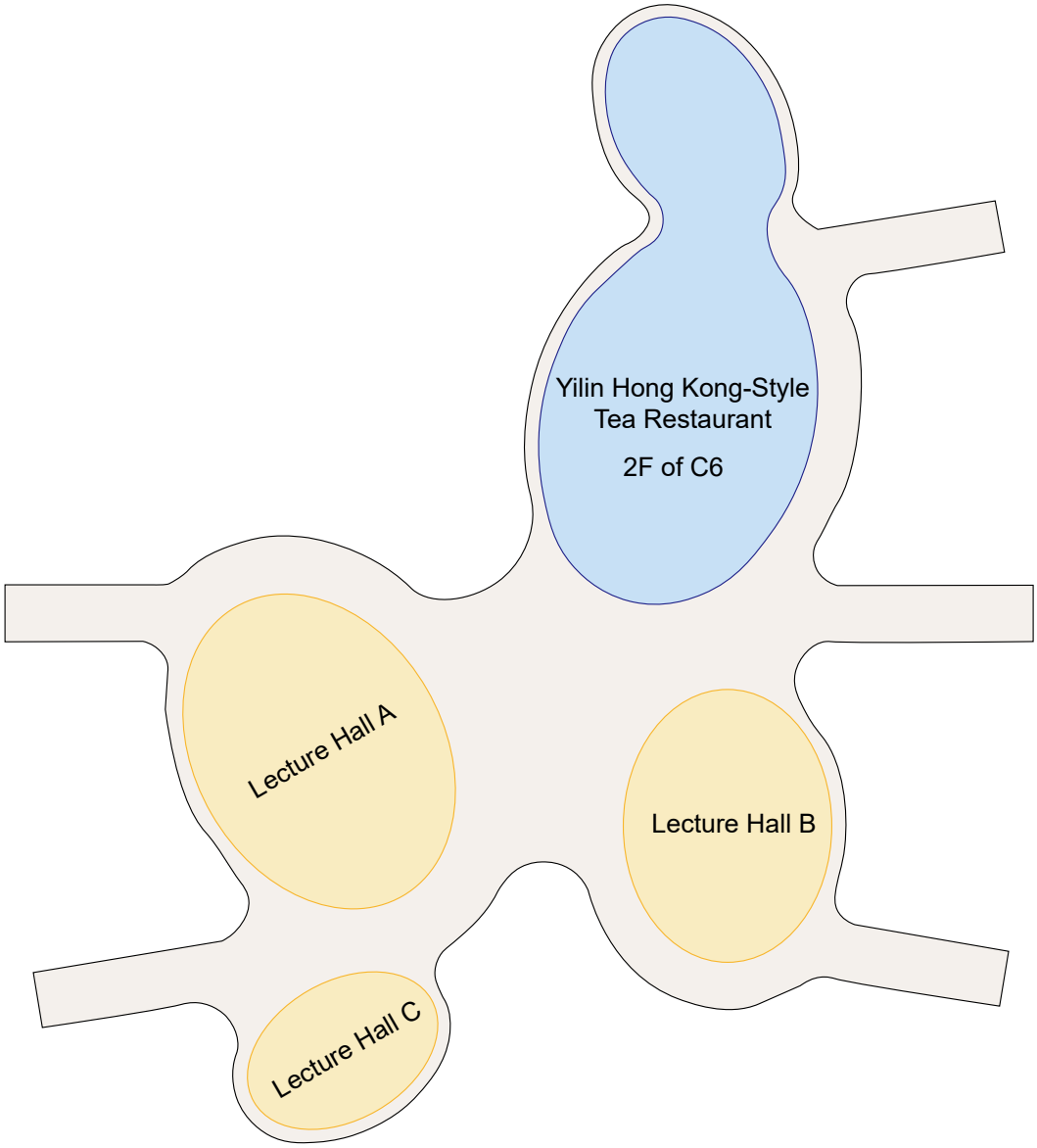
Maps



Venue Direction		
04 July Morning	Lecture Hall A	Plenary lectures
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Venue Direction			
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Scan the QR Code to Access the Campus Maps

WELCOME TO VEH 2026

Address from the Chairmen

Dear Ladies and Gentlemen,

On behalf of the Organizing Committee, it is our great pleasure to warmly welcome you to the 7th International Conference on Vibration and Energy Harvesting Applications (VEH 2026), which will be held from July 3 to 6, 2026, at The Hong Kong University of Science and Technology (Guangzhou), Guangzhou, China.

VEH 2026 aims to provide an international platform for researchers, scholars, engineers, and students from around the world to exchange the latest research progress, technological developments, and emerging applications in the fields of vibration, energy harvesting, self-powered sensing, and related interdisciplinary areas. The conference is expected to stimulate in-depth discussions, promote academic collaboration, and encourage new ideas for future research and industrial applications.

Since its establishment, the international conference on vibration and energy harvesting applications has brought together leading experts and young researchers in vibration-based energy harvesting, smart materials and structures, nonlinear dynamics, self-powered sensing systems, and intelligent applications. In 2026, VEH will continue this tradition by providing a high-level forum for plenary lectures, keynote talks, invited presentations, oral presentations, poster sessions, and academic exchanges.

This year, the conference program has been organized into 24 special sessions, covering a wide range of topics related to vibration and energy harvesting applications. These sessions are designed to highlight recent advances, foster interdisciplinary communication, and provide opportunities for participants to share their latest findings and perspectives.

We sincerely hope that VEH 2026 will provide all participants with an inspiring and memorable experience in Guangzhou. We look forward to meeting you at HKUST(GZ) and to sharing fruitful discussions, new discoveries, and future collaborations during the conference.

Sincerely,

Prof. Yunlong Zi
Chairman
HKUST(GZ)

Prof. Guobiao Hu
Chairman
HKUST(GZ)

About HKUST(GZ)

A cross-disciplinary research university in the Greater Bay Area

The Hong Kong University of Science and Technology (Guangzhou), known as HKUST(GZ), is located in Nansha, Guangzhou. It was established through collaboration between The Hong Kong University of Science and Technology and Guangzhou University and is designed as a forward-looking research university with a strong emphasis on cross-disciplinary education and innovation.

Under the vision of “Unified HKUST, Complementary Campuses”, HKUST(GZ) promotes frontier research, talent cultivation, and knowledge exchange across disciplines. Its academic structure supports integrated development in areas including sustainable energy, intelligent systems, smart manufacturing, data science, artificial intelligence, and the Internet of Things.

As the host venue of VEH 2026, HKUST(GZ) provides an open and vibrant campus environment for international researchers, engineers, students, and industry partners to exchange ideas on vibration, energy harvesting, self-powered sensing, and future intelligent applications.

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Sustainable Energy and Environment Thrust
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SYSTEMS HUB

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School of Information Science and Technology

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ZHENGZHOU UNIVERSITY SCHOOL OF MECHANICAL AND POWER ENGINEERING

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANGZHOU) | CENTER FOR ENGINEERING EXCELLENCE

MHRF
MARINE HYDRODYNAMIC RESEARCH FACILITY
全海洋动力中央实验室

香港科技大学（广州）
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANGZHOU)

智能泛在物联网理论与应用学科创新引智基地
CENTER FOR THEORY AND APPLICATION OF INTELLIGENT UBIQUITOUS INTERNET OF THINGS(111 AIOT)
副校长（研究）
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香港科技大学(广州)
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANGZHOU)

超级能源科技主题实验室
BRILLIANT ENERGY SCIENCE AND TECHNOLOGY LAB

Brilliant Energy Science and Technology Theme-Based Lab (BEST Lab) focuses on the development of next-generation sustainable energy systems with a low carbon footprint. Through interdisciplinary and crossdisciplinary innovation in energy research, the laboratory is committed to becoming a world-class forefront energy research facility. Research topics at the BEST Lab include highly interdisciplinary fields such as renewable and green energy generation, solar energy conversion and utilization, photovoltaic and solar thermal technologies, self-powered devices and systems, nanogenerators, battery safety and intelligence, digital energy, power usage effectiveness of data center, thermal management of power batteries and power electronic devices; bioinspired energy, energy storage and safety, advanced wireless battery charging, electric vehicles, smart green buildings, carbon capture and storage technologies, and more. The laboratory provides our researchers with an extraordinary range of cutting-edge facilities and scientific tools that support in-depth research, drive technological breakthroughs, and improve our competitiveness and quality of life. BEST Lab will lead innovative and interdisciplinary energy research, exploring potential opportunities and key solutions to address climate change issues.

Sponsors

舜创激光测振
sunnyinnova
LASER VIBROMETRY

Zhejiang SunnyInnovation Optical Intelligence Technology Co., Ltd. (SunnyInnovation Tech) was founded in November 2023, originating from the laser Doppler vibrometer R&D team of Sunny Optical Technology.

Back in 2009, the team developed China's first domestically manufactured laser Doppler vibrometer. For over a decade, the team has concentrated on independent research and development, steadily consolidating the technical foundation for the domestic production of high-end instruments.

The company specializes in the research, design and manufacturing of non-contact laser vibration measuring instruments, ranking among the world's leading manufacturers in this industry. It has been recognized as a High-tech Enterprise, a Specialized, Refined, Distinctive and Innovative SME, and a Provincial-level Science & Technology SME.

We have established a comprehensive technical chain spanning core algorithms to system integration. Our products are widely deployed in precision manufacturing, acoustic testing, structural health monitoring, scientific research experiments and other sectors.

SunnyInnovation Tech envisions becoming a trailblazer in the laser vibrometer industry. We are dedicated to technological innovation and continuously improving measurement precision and performance capacity of our products, aiming to achieve new milestones in the global high-end instrument market.

Sponsors

ViPSN Co., Ltd., founded in 2022 as a spin-off from the METAL (Mechatronics and Energy Transformation Laboratory) research group at ShanghaiTech University in Shanghai, China, focuses on developing and promoting battery-free Internet of Things (IoT) systems and applications. Building on METAL's interdisciplinary research in energy harvesting and self-powered IoT technologies, ViPSN offers innovative products such as photovoltaic-powered Bluetooth Low Energy (BLE) tags, finger-press-powered BLE buttons, and footstep-powered BLE floor tiles, which eliminate the need for batteries and are therefore eco-friendly and maintenance-free. The company also provides integrated solutions that connect these battery-free modules with signal gateways and cloud-based graphical user interfaces. Through the ViPSN-X initiative, ViPSN aims to expand the application of sustainable electronics across various industrial sectors, including structural health monitoring and intelligent warehouse management, demonstrating its commitment to technological innovation and environmental sustainability.

Sponsors

A pioneer in scholarly open access publishing, MDPI has supported academic communities since 1996. Based in Basel, Switzerland, MDPI is committed to fostering open scientific exchange in all forms and across all disciplines. The publisher currently supports 472 diverse open access journals, including 463 peer-reviewed journals and 9 conference journals, with the support of more than 295,000 academic experts who share its mission, values, and commitment to providing high-quality services for authors. With additional offices in Beijing, Wuhan, Tianjin and Nanjing in China, Barcelona in Spain, Belgrade and Novi Sad in Serbia, Manchester in the United Kingdom, Tokyo in Japan, Cluj and Bucharest in Romania, Toronto in Canada, Kraków in Poland, Singapore, Bangkok in Thailand, and Seoul in the Republic of Korea, MDPI has published research by more than 330,000 individual authors.

凯视迈
KathMatic

Nanjing KathMatic Technology Co., Ltd. (KathMatic) is located by the beautiful Jiulong Lake in Jiangning, Nanjing. It is a wholly owned subsidiary of Nanjing Mumuxili Technology Co., Ltd. (Mumuxili). Since its establishment in 2014, the brand has been committed to high-precision optical measurement technology and has successively launched three product lines and multiple series of products, including the laser interferometry product line, ultra-high-definition 3D microscopic observation product line, and ultra-high-precision 3D microscopic measurement product line.

SHERATON
Guangzhou Nansha Hotel
广州南沙越秀喜来登酒店

广州南沙越秀喜来登酒店坐落大湾区核心位置南沙，紧邻商圈，交通便利，地铁通达市区，1 小时车程直达东莞、深圳和珠海等城市。酒店客房 291 间，拥有 2000 平方米灵活会务空间，含 1000 平方米的无柱宴会厅与 11 间多功能会议室。

Registration & Information Desks

On-site Registration Desk will be open at the following time:

Time	Date	Location
08:30–18:30	Friday, July 3, 2026	Lecture Hall A
08:30–18:30	Saturday, July 4, 2026	Lecture Hall A
08:30–18:30	Sunday, July 5, 2026	E1 - 1F

Conference Information

CONFERENCE VENUE

The Hong Kong University of Science and Technology (Guangzhou)

No. 1 Duxue Road, Nansha District, Guangzhou, China

https://www.hkust-gz.edu.cn/

CONFERENCE LANGUAGE

The official language is English.

NAME TAGS

Upon arrival at the Conference, participants will receive name tags and conference materials. Please be sure to wear your name tag to all sessions and present it when required for access to pre-booked activities.

COFFEE & LUNCH BREAKS

Coffee, tea, and lunches will be served to delegates according to the breaks indicated in this Programme Book.

Registration & Information Desks

MOBILE PHONES

Participants are kindly requested to keep their mobile phones switched off or muted in session halls.

LIABILITY AND INSURANCE

The Conference Secretariat and organizers cannot accept liability for personal accidents or loss of or damage to private property of participants. Participants are advised not to leave their personal belongings unattended in session halls and throughout the symposium venue.

PHOTOGRAPHY

Please note there will be official photographers at VEH 2026 conference. Please do not take photographs during scientific sessions.

VIDEO PHOTOGRAPHY

Due to legal and privacy regulations, we request that participants refrain from any video recording during sessions. This is also disruptive to fellow participants and we therefore ask you to be considerate.

SMOKING POLICY

The Hong Kong University of Science and Technology (Guangzhou) is a non-smoking campus. Participants are requested to refrain from smoking in all areas.

Here are just a few of the processes we have incorporated at VEH 2026:

- The VEH 2026 programme books are printed on paper with recycled content.
- The use of plastic registration envelopes and plastic name tag holders is reduced.
- Name tags can be deposited to be re-used.

Presentation Information

PRESENTATION INSTRUCTIONS

Plenary: 45 min; Keynote: 30 min; Invited Oral: 20 min; Regular Oral: 15 min.

Each contributed oral presentation is allocated a fixed time slot within its assigned session. Presenters are requested to strictly follow the session schedule and the instructions of the session chairs. Please prepare your presentation carefully so that all participants can get the most benefit from your work.

DATA PRESENTATIONS

If using a PowerPoint or PDF presentation, please bring your file on a USB memory stick and upload it to the session computer in the Speaker Ready Room or session room at least 1 hour before the start of your session.

You may supply your own laptop computer as a back-up. If combining video clips with PowerPoint, please make sure to check the file in the session room before your session, preferably during a coffee or lunch break.

Please note that the symposium computers in the session halls will be supplied with commonly used presentation software. To avoid compatibility problems, presenters are advised to prepare a PDF back-up version of their slides.

IMPORTANT NOTE FOR MACINTOSH USERS

In order to use Macintosh presentations on a PC-compatible computer, please prepare the presentation according to the instructions below before bringing it to the session:

1. Use common fonts, such as Arial, Times New Roman, Verdana, or Calibri. Special fonts may be changed to a default font on a PowerPoint-based PC.

2. Insert pictures as JPG files where possible, and avoid formats that may not be visible on a PowerPoint-based PC.

3. Use common movie formats, such as AVI, MPG, MP4, or WMV, and test all embedded videos in advance.

You may use your own Macintosh laptop computer as a back-up. In such a case, please ensure that it has the required external display adapter and come to check it in the session hall at least 30 minutes before the start of your session.

High-level Programme

Friday, July 3		
09:00 – 12:00	Registration	Lecture Hall A
12:00 – 13:30	Lunch	Core Area
14:00 – 16:00	Poster Session	E1-1F
16:00 – 17:00	Young Researcher Seminar	E1-1F
17:30 – 19:00	Dinner	Core Area
17:30 – 19:30	Technical Committee Meeting	Lecture Hall C

High-level Programme

Saturday, July 4		
07:30 – 08:20	Breakfast	Core Area
08:30 – 08:55	Opening Ceremony	Lecture Hall A
08:55 – 09:00	Photo Taking	Lecture Hall A
09:00 – 10:30	Plenary Lectures	Lecture Hall A
10:30 – 10:45	Coffee Break	
10:45 – 12:15	Plenary Lectures	Lecture Hall A
12:20 – 13:30	Lunch	C2-103
13:30 – 15:30	Keynote Lectures, Track A Keynote Lectures, Track B Keynote Lectures, Track C	Lecture Hall A Lecture Hall C E1-101
15:30 – 15:45	Coffee Break	
15:45 – 17:15	Keynote Lectures, Track A Keynote Lectures, Track B Keynote Lectures, Track C	Lecture Hall A Lecture Hall C E1-101
17:15 – 18:00	Plenary Workshop	Lecture Hall A
18:45 – 21:45	Banquet & Award Ceremony	Sheraton Hotel

High-level Programme

Sunday, July 5		
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08:30 – 10:15	Invited & Oral Presentations	E1-1F
10:15 – 10:30	Coffee Break	
10:30 – 12:15	Invited & Oral Presentations	E1-1F
12:30 – 13:30	Lunch	C2-103
13:45 – 15:45	Invited & Oral Presentations	E1-1F
15:45 – 16:00	Coffee Break	
16:00 – 18:00	Invited & Oral Presentations	E1-1F
18:00 – 19:00	Dinner	Core Area

High-level Programme

Monday, July 6		
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09:00 – 12:00	Lab Tour	Core Area

Special Sessions

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SS01	Extreme Thermal Energy Transport, Conversion and Management	*Jian Zeng, Yanguang Zhou, Yuqiang Zeng, Heng Tang*
SS02	Energy Harvesting and Sensing for Biomedical Applications	*Shiyuan Liu, Ying Hong, Yilong Wang, Biao Wang*
SS03	Rotational Energy Harvesting	*Hailing Fu, Xutao Mei, Shengxi Zhou, Yang Kuang, Haitao Xu, Xiaoqing Ma*
SS04	Advanced Metamaterials for Energy Harvesting and Intelligent Sensing	*Yabin Jin, Yupei Jian, Yuqiang Gao*
SS05	Mechanical Energy Harvesting and Self-powered Sensing	*Minyi Xu, Taili Du, Yan Wang, Pengfei Chen, Hongfa Zhao, Chuanqing Zhu*
SS06	Self-powered Integrated System and Application	*Sixing Xu, Weiqiang Zhang*
SS07	Vibration Energy Harvesting for Next-Generation Smart Transportation and Aerospace Systems	*Yong Qin, Xiuhan Li*
SS08	Electret-related Devices for Self-powered Sensing and Energy Harvesting	*Kai Tao, Fei Wang, Xiaoqing Zhang*
SS09	Artificial Intelligence Enabled Self-Powered Sensing	*Guoqiang Xu, Hao Wu, Xiaoyi Li*
SS10	Thermally Powered Energy Systems for Sustainable Heating, Cooling, and Electricity Generation	*Geng Chen, Youcai Liang, Rui Yang*
SS11	EH-based Self-powered Sensing	*Kangqi Fan, Weiqun Liu, Jiawen Xu, Yipeng Wu, Zehao Hou*
SS12	Nonlinear Phenomena and Coupled Dynamics in Electro-mechanical Systems for Vibration Energy Harvesting	*Yimin Fan, Marco Amabili, Li-Qun Chen*

Special Sessions

Index	Special Session	Session Chair(s)
SS13	Applications of Energy Harvesting in Advancing AIoT	*Peilun Yin, Guobiao Hu, Xiaozhen Du, Zhongjie Li*
SS14	Energy Harvesting for Railway Systems	*Yang Kuang, Shengxi Zhou, Yingli Li, Yilong Wang*
SS15	Flexible Wearable MEMS Sensors	*Bin Yang*
SS16	Nonlinear Dynamics Behaviors in Energy Harvesting System	*Haitao Li, Wenan Jiang, Jianan Pan, Cong Yue, Weiyang Qin*
SS17	Water Energy Harvesting	*Wanghuai Xu*
SS18	Weak Energy Harvesting and Self-Powered Sensing	*Chi Zhang, Guoxu Liu, Jie Cao*
SS19	Ocean Energy and Environment: Generators/ Sensors/Simulators	*Jiaqi Wang, Wenbo Gao*
SS20	Metamaterials for Intelligent Sensing and Structural Health Monitoring	*Zhilu Lai, Songye Zhu, Bao Zhao, Guobiao Hu*
SS21	Flow-induced Vibration Energy Harvesting and Its Applications	*Huliang Dai, Lin Wang*
SS22	Spacecraft Vibration and Energy Harvesting	*Ti Chen, Yanping Song, Jialiang Sun*
SS23	Self-Sustaining Wearable Systems: Materials, Devices and Applications	*Linchuan Zhao, Sheng Liu, Hongxiang Zou*
SS24	Bio-inspired Structure Dynamics and Vibration Isolation	*Bo Yan, Ge Yan, Hongye Ma*

Room Direction

Venue	Special Session	Session Chair(s)	Room Location
Venue #1	SS01: Extreme Thermal Energy Transport, Conversion and Management	*Jian Zeng, Yanguang Zhou, Yuqiang Zeng, Heng Tang*	E1-101, Core Area
Venue #2	SS02: Energy Harvesting and Sensing for Biomedical Applications	*Shiyuan Liu, Ying Hong, Yilong Wang, Biao Wang*	E1-122, Core Area
	SS11: EH-based Self-powered Sensing	*Kangqi Fan, Weiqun Liu, Jiawen Xu, Yipeng Wu, Zehao Hou*	
Venue #3	SS03: Rotational Energy Harvesting	*Hailing Fu, Xutao Mei, Shengxi Zhou, Yang Kuang, Haitao Xu, Xiaoqing Ma*	E1-102, Core Area
	SS06: Self-powered Integrated System and Application	*Sixing Xu, Weiqiang Zhang*	
	SS08: Electret-related Devices for Self-powered Sensing and Energy Harvesting	*Kai Tao, Fei Wang, Xiaoqing Zhang*	
Venue #4	SS04: Advanced Metamaterials for Energy Harvesting and Intelligent Sensing	*Yabin Jin, Yupei Jian, Yuqiang Gao*	E1-147, Core Area
	SS07: Vibration Energy Harvesting for Next-Generation Smart Transportation and Aerospace Systems	*Yong Qin, Xiuhan Li*	
	SS10: Thermally Powered Energy Systems for Sustainable Heating, Cooling, and Electricity Generation	*Geng Chen, Youcai Liang, Rui Yang*	
	SS15: Flexible Wearable MEMS Sensors	*Bin Yang*	
Venue #5	SS05: Mechanical Energy Harvesting and Self-powered Sensing	*Minyi Xu, Taili Du, Yan Wang, Pengfei Chen, Hongfa Zhao, Chuanqing Zhu*	E1-148, Core Area
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	SS20: Metamaterials for Intelligent Sensing and Structural Health Monitoring	*Zhilu Lai, Songye Zhu, Bao Zhao, Guobiao Hu*	

Room Direction

Venue	Special Session	Session Chair(s)	Room Location
Venue #6	SS09: Artificial Intelligence Enabled Self-Powered Sensing	*Guoqiang Xu, Hao Wu, Xiaoyi Li*	E1-134, Core Area
	SS19: Ocean Energy and Environment: Generators/Sensors/Simulators	*Jiaqi Wang, Wenbo Gao*	
	SS21: Flow-induced Vibration Energy Harvesting and Its Applications	*Huliang Dai, Lin Wang*	
	SS23: Self-Sustaining Wearable Systems: Materials, Devices and Applications	*Linchuan Zhao, Sheng Liu, Hongxiang Zou*	
Venue #7	SS12: Nonlinear Phenomena and Coupled Dynamics in Electro-mechanical Systems for Vibration Energy Harvesting	*Yimin Fan, Marco Amabili, Li-Qun Chen*	E1-149, Core Area
	SS16: Nonlinear Dynamics Behaviors in Energy Harvesting System	*Haitao Li, Wenan Jiang, Jianan Pan, Cong Yue, Weiyang Qin*	
	SS18: Weak Energy Harvesting and Self-Powered Sensing	*Chi Zhang, Guoxu Liu, Jie Cao*	
Venue #8	SS14: Energy Harvesting for Railway Systems	*Yang Kuang, Shengxi Zhou, Yingli Li, Yilong Wang*	E1-150, Core Area
	SS17: Water Energy Harvesting	*Wanghuai Xu*	
	SS22: Spacecraft Vibration and Energy Harvesting	*Ti Chen, Yanping Song, Jialiang Sun*	
	SS24: Bio-inspired Structure Dynamics and Vibration Isolation	*Bo Yan, Ge Yan, Hongye Ma*	

Plenary Lectures

Time	Lecture Title	Plenary Speaker	Host
09:00 – 09:45	The tribovoltaic effect	*Zhong Lin Wang*	*Yunlong Zi*
09:45 – 10:30	From Energy Harvesting to Autonomous Monitoring Systems: Challenges, Innovations, and Real-World Applications	*Meiling Zhu*	*Yunlong Zi*
10:30 – 10:45	*Coffee Break*		
10:45 – 11:30	Enabling Self-Powered IoT through Energy Harvesting: Design, Modeling, and Applications	*Yaowen Yang*	*Guobiao Hu*
11:30 – 12:15	Triboelectric Medicine: Shaping the Future of Biomedical Innovation	*Sang-Woo Kim*	*Guobiao Hu*
12:20 – 13:30	*Lunch*		
17:15 – 18:00	The nature of Publishing	*Prateek Dongare*	*Renyun Zhang*

Plenary Speakers

Zhong Lin Wang

Hightower Chair and Regents' Professor, Georgia Tech

Director and Chief Scientist, Beijing Institute of Nanoenergy and Nanosystems, CAS

Presentation Title:

The tribovoltaic effect

Biography:

Dr. Zhong Lin (Z.L.) Wang received his Ph.D in Physics from Arizona State University in 1987. He is the Regents' Professor (Emeritus), Hightower Chair in Materials Science and Engineering, and College of Engineering Distinguished Professor at the Georgia Institute of Technology. He served as a Visiting Lecturer in SUNY (1987-1988), Stony Brook, as a research fellow at the Cavendish Laboratory in Cambridge (England) (1988-1989), Oak Ridge National Laboratory (1989-1993) and at National Institute of Standards and Technology (1993-1995) before joining Georgia Tech in 1995. He is the Hightower Chair in Materials Science and Engineering and Regents' Professor (Emeritus) at Georgia Tech. He is the director of the Beijing Institute of Nanoenergy and Nanosystems. He was also a guest professor at Uppsala University, Sweden (2017- 2020).

Plenary Speakers

Meiling Zhu

Royal Society Industry Fellow

Chair of Mechanical Engineering

University of Exeter, UK

Presentation Title:

From Energy Harvesting to Autonomous Monitoring Systems: Challenges, Innovations, and Real-World Applications

Biography:

Professor Meiling Zhu is a Royal Society Industry Fellow, Chair of Mechanical Engineering, and Head of the Energy Harvesting Research Group at the University of Exeter, UK. She is also the Founder and Director of Encortec Ltd., a deep-tech company commercialising self-powered platform technologies for industrial applications.

Professor Zhu is internationally recognised as a pioneer in energy harvesting and autonomous sensing systems. Over the past two decades, she has led world-leading research advancing the science and engineering of energy harvesting, adaptive power management, self-powered wireless sensors, and intelligent monitoring platforms. Her work has helped establish the foundations for self-powered, maintenance-free sensing systems, enabling the transition from battery-dependent devices to autonomous technologies for infrastructure, transportation, manufacturing, and the Internet of Things.

She has secured and led major research and innovation programmes funded by EPSRC, the Royal Society, Innovate UK, industry, and international partners, generating influential publications, patents, and commercial technologies. Professor Zhu is a Fellow of the Institution of Mechanical Engineers (FIMechE), a Fellow of the Institute of Physics (FInstP), and a Chartered Engineer.

Plenary Speakers

Yaowen Yang

Associate Vice President (Lifelong Learning – Academic), Changjiang Chair Professor, and Professor in School of Civil and Environmental Engineering, Nanyang Technological University

Presentation Title:

Enabling Self-Powered IoT through Energy Harvesting: Design, Modeling, and Applications

Biography:

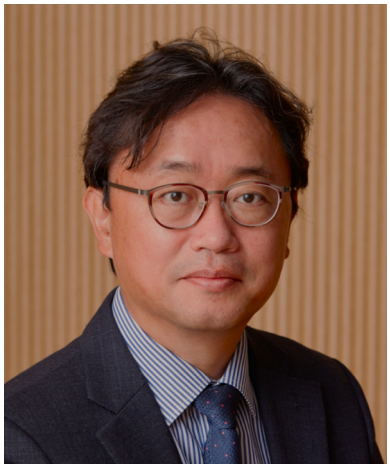
Professor Yaowen Yang is currently a professor in the School of Civil and Environmental Engineering, while also serving as the Associate Vice President (Lifelong Learning - Academic) in the President's Office, Nanyang Technological University (NTU), Singapore. He is also appointed as Changjiang Chair Professor. He stands as a lead researcher in the areas of energy harvesting, structural health and geotechnical monitoring, uncertainty analysis in structural dynamics, and metamaterials. Over the years, Prof. Yang has received more than $15M (Singapore dollar) research grant from funding agencies and industry, and published over 360 journal and conference papers.

Beyond academia, Prof. Yang wears an entrepreneurial hat as well. He established a company aimed at implementing comprehensive solutions for geotechnical, structural, and construction process monitoring, culminating in informed decision-making. For his innovative research strides and entrepreneurial pursuits, Prof. Yang is designated as an iNTUitive Fellow, showcasing his distinguished contributions in translational research.

Plenary Speakers

Sang-Woo Kim

Professor & Yonsei World-Class Fellow, Yonsei University, Seoul, Korea



Presentation Title:

Triboelectric Medicine: Shaping the Future of Biomedical Innovation

Biography:

Dr. Sang-Woo Kim is the YONSEI World-Class Fellow Professor in the Department of Materials Science and Engineering at Yonsei University. He is a Fellow of the Korean Academy of Science and Technology (KAST) and a Member of the National Academy of Engineering of Korea (NAEK). Currently, he is the Director of the Center for Human-oriented Triboelectric Energy Harvesting funded by the National Research Foundation of Korea. His recent research interests are focused on piezoelectric/triboelectric nanogenerators, implantable medical devices, self-powered wearable electronics, and 2D materials. Prof. Kim has a publication record, with over 400 research papers published, including articles in prestigious journals such as Science and Nature (with an H-index of 96). Currently, Dr. Kim holds the positions of Vice President at the Materials Research Society of Korea and Vice President of Korean Sensor Society.

Plenary Speakers

Prateek Dongare

Head of Research Cross-Journal Editorial Team in Springer Nature, Heidelberg, Germany

Presentation Title:

The nature of Publishing

Biography:

Prateek Dongare is a chemist and materials scientist specializing in catalysis and solar energy. He joined Springer Nature in 2018 as an Editor at Communications Chemistry, moving to Nature Communications in 2019, where he became Team Manager and Chief Editor in 2023. There, he built and led the energy materials team and managed a broad portfolio across catalysis, solar fuels, and batteries. In 2024, he founded and leads the Research Cross-Journal Editorial Team, Nature Journals, contributing to editorial tasks at nature journals and nature. His current team covers a large spectrum of expertise from life sciences to physical sciences. He holds a PhD from Memorial University, Canada and completed postdocs in Sweden and the USA. Prateek is passionate about science communications, supporting young professionals and researchers.

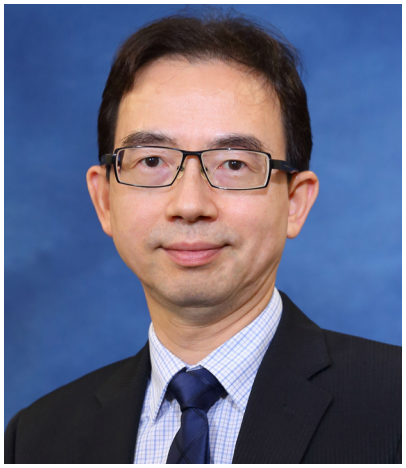
Keynote Lectures: Track A

Time	Track A (Lecture Hall A)	Speaker	Host
13:30 – 14:00	Energy Harvesting from Vibration and Motion	*Wei-Hsin Liao*	*Junrui Liang*
14:00 – 14:30	Next-Generation Wind and Wave Energy	*Daniil Yurchenko*	*Junrui Liang*
14:30 – 15:00	Highly compact inertia-driven TENG for vibration energy harvesting	*Hanjun Ryu*	*Junrui Liang*
15:00 – 15:30	Multi-Directional Multi-Modal Wind Energy Harvesting	*Lihua Tang*	*Junrui Liang*
15:30 – 15:45	Coffee Break		
15:45 – 16:15	Nonlinear stiffness compensation method for vibration isolation	*Wenming Zhang*	*Junlei Wang*
16:15 – 16:45	Harnessing Nonlinearity for Smarter Engineering Systems	*Xingjian Jing*	*Junlei Wang*
16:45 – 17:15	Broadband Vibration Suppression of Metamaterials via Active Feedback Control	*Lifeng Wang*	*Junlei Wang*

Keynote Lectures: Track B

Time	Track B (Lecture Hall C)	Speaker	Host
13:30 – 14:00	Field matching principle for energy efficiency enhancement	*Zuankai Wang*	*Shiyuan Liu*
14:00 – 14:30	Advances in bulk ferroelectrics over the past decade	*Shujun Zhang*	*Shiyuan Liu*
14:30 – 15:00	100 Years of Piezoelectricity: New explorations in Bio-organic Materials and Ultrasound Energy Harvesting	*Zhengbao Yang*	*Shiyuan Liu*
15:00 – 15:30			
15:30 – 15:45	Coffee Break		
15:45–16:15	A new frontier: where vibration control meets energy harvesting	*Songye Zhu*	*Zhilu Lai*
16:15–16:45	Time-varying electric field-activated solid-state devices for energy harvesting and smart sensing	*Renyun Zhang*	*Zhilu Lai*
16:45–17:15	Vibration energy harvesting and synchronization in array metastructures	*Grzegorz Litak*	*Zhilu Lai*

Keynote Speakers: Track A



Wei-Hsin Liao

The Chinese University of Hong Kong

Presentation Title:

Energy Harvesting from Vibration and Motion

July 04, 13:30 – 14:00, Lecture Hall A

Daniil Yurchenko

University of Southampton

Presentation Title:

Next-Generation Wind and Wave Energy

July 04, 14:00 – 14:30, Lecture Hall A

Keynote Speakers: Track B

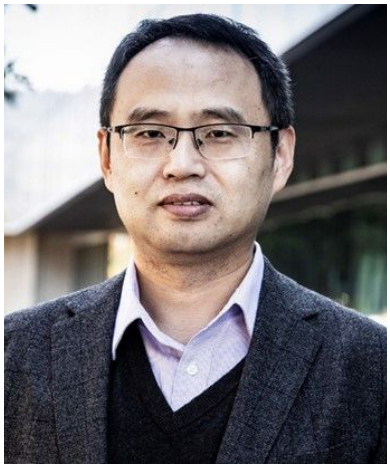
Zuankai Wang

The Hong Kong Polytechnic University

Presentation Title:

Field matching principle for energy efficiency enhancement

July 04, 13:30 – 14:00, Lecture Hall C



Shujun Zhang

City University of Hong Kong

Presentation Title:

Advances in bulk ferroelectrics over the past decade

July 04, 14:00 – 14:30, Lecture Hall C

Keynote Speakers: Track A

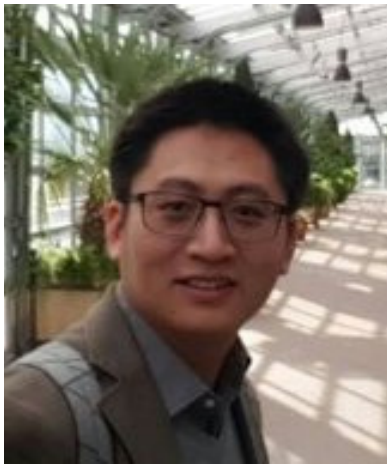
Hanjun Ryu

Chung-Ang University

Presentation Title:

Highly compact inertia-driven TENG for vibration energy harvesting

July 04, 14:30 – 15:00, Lecture Hall A



Lihua Tang

The University of Auckland

Presentation Title:

Multi-Directional Multi-Modal Wind Energy Harvesting

July 04, 15:00 – 15:30, Lecture Hall A

Keynote Speakers: Track B

Zhengbao Yang

The Hong Kong University of Science and Technology

Presentation Title:

100 Years of Piezoelectricity: New explorations in Bio-organic Materials and Ultrasound Energy Harvesting

July 04, 14:30 – 15:00, Lecture Hall C

Songye Zhu

The Hong Kong Polytechnic University

Presentation Title:

A new frontier: where vibration control meets energy harvesting

July 04, 15:45 – 16:15, Lecture Hall C

Keynote Speakers: Track A

Wenming Zhang

Shanghai Jiao Tong University

Presentation Title:

Nonlinear stiffness compensation method for vibration isolation

July 04, 15:45 – 16:15, Lecture Hall A

Xingjian Jing

City University of Hong Kong

Presentation Title:

Harnessing Nonlinearity for Smarter Engineering Systems

July 04, 16:15 – 16:45, Lecture Hall A

Keynote Speakers: Track B

Renyun Zhang

Mid Sweden University

Presentation Title:

Time-varying electric field-activated solid-state devices for energy harvesting and smart sensing

July 04, 16:15 – 16:45, Lecture Hall C

Grzegorz Litak

Lublin University of Technology

Presentation Title:

Vibration energy harvesting and synchronization in array metastructures

July 04, 16:45 – 17:15, Lecture Hall C

Keynote Speakers: Track A

Lifeng Wang

Nanjing University of Aeronautics and Astronautics

Presentation Title:

Broadband Vibration Suppression of Metamaterials via Active Feedback Control

July 04, 16:45 – 17:15, Lecture Hall A

Keynote Speakers

Attention: The following two keynote lectures are scheduled in Venue E1 on July 5.

Yang Chai

The Hong Kong Polytechnic University

Presentation Title:

Optoelectronic Intelligence for Bioinspired In-Sensor Computing in Artificial Vision

July 05, 08:30 – 09:00, E1-122

Zong-Hong Lin

National Taiwan University

Presentation Title:

Triboelectrification at Solid-Liquid Interfaces: Surface Chemistry-Driven Charge Transfer for Self-Powered Nanosensing

July 05, 08:30 – 09:00, E1-134

Keynote Speakers: Track C

Zhigang Li

The Hong Kong University of Science and Technology

Presentation Title:

Vibration-Enhanced-Ion-Rejection-Rate-in-Freeze. Desalination

July 04, 13:30-14:00, E1-101

Christos Markides

Imperial College London

Presentation Title:

Thermomechanical Pathways for Waste and Renewable Heat Conversion and Storage: Advances, Challenges, and Future Perspectives

July 04, 14:00-14:30, E1-101

Keynote Speakers: Track C

Yong Tang

South China University of Technology/Shenzhen University

Presentation Title:

Phase-Change Thermal Control Technology and Its Applications

July 05, 11:10-11:40, E1-101

Venue #1

SS01: Extreme Thermal Energy Transport, Conversion and Management

Chairs: *Jian Zeng, Yanguang Zhou, Yuqiang Zeng, Heng Tang*

Location: E1-101

July 04, 2026

Time	Index	Type	Details
13:30-14:00	**SS01**	*Keynote*	Vibration Enhanced Ion Rejection Rate in Freeze Desalination *Zhigang Li* *The Hong Kong University of Science and Technology*
14:00-14:30	**SS01**	*Keynote*	Thermomechanical Pathways for Waste and Renewable Heat Conversion and Storage: Advances, Challenges, and Future Perspectives *Christos Markides* *Imperial College London*
14:30-14:45	**SS01**	*Regular Oral*	Ultralow-temperature driven heat storage and refrigeration based on hydrogels *Yuanyuan Wang* *The Hong Kong University of Science and Technology*
14:45-15:05	**SS01**	*Invited*	Development of Machine Learning Potentials and Nanoscale Phonon Transport Engineering *Shiyun Xiong* *Guangdong University of Technology*
15:05-15:20	**SS01**	*Regular Oral*	High-capacity Carbon Dioxide Capture from Air with Low Regeneration Temperature Using Thermo-responsive Polyethyleneimine-modified Cellulose-based Adsorbent *Jiaxin Ren* *The Hong Kong University of Science and Technology (Guangzhou)*
15:20-15:35	**SS01**	*Regular Oral*	Probe wavelength-dependent surface acoustic wave signal amplitude of semiconductors in transient grating spectroscopy *Yi He, Ruidan Zhu, Runhao Chen, Shunbin Huang, Liang Guo* *Southern University of Science and Technology*

Venue #1

Time	Index	Type	Details
15:35-15:55	**SS01**	*Invited*	In-situ measurement and optimization on the interface regulation mechanism of thermal transport in graphene/polymer composites *Tingting Miao* *China University of Petroleum-Beijing*
15:55-16:05	*Coffee Break*		
16:05-16:25	**SS01**	*Invited*	Nighttime Thermoradiative Energy Harvesting and Nonlinear Thermal Regulation Enabled by Near-Field Thermal Radiation *Dudong Feng* *Southeast University*
16:25-16:45	**SS01**	*Invited*	Carpentry-inspired mechanical interfaces for thermal transport *Menglong Hao* *Southeast University*
16:45-17:05	**SS01**	*Invited*	Evolution mechanism of cathode microstructure in solid oxide electrolysis cells with long-term performance degradation *Xinhai Xu* *Harbin Institute of Technology*
17:05-17:25	**SS01**	*Invited*	*Atomistic Investigation of Dislocation–Phonon Interactions and Their Impact on Thermal Transport* *Yandong Sun* *Tsinghua University*
17:25-17:45	**SS01**	*Invited*	*Multiscale Modeling and Optimization of Water Management in Anion Exchange Membrane Fuel Cells* *Lin Zeng* *Southern University of Science and Technology*
17:45-18:00	**SS01**	*Regular Oral*	*High-Capacity Synergetic Carbon Removal from Compressed Air Energy Storage* *Peigong Liu* *The Hong Kong University of Science and Technology (Guangzhou)*

Venue #1

SS01: Extreme Thermal Energy Transport, Conversion and Management

Chairs: *Jian Zeng, Yanguang Zhou, Yuqiang Zeng, Heng Tang*

Location: E1-101

July 05, 2026

Time	Index	Type	Details
8:40-8:55	**SS01**	*Regular* *Oral*	*Deciphering Oxygen Vacancy Formation Energy Distribution in Doped Perovskite Oxides for Enhanced Thermochemical CO2 Reduction* *Xi Yuan* *The Hong Kong University of Science and Technology (Guangzhou)*
8:55-9:15	**SS01**	*Invited*	*Mechanical Stress Regulation of Stability and Optoelectronic Properties in Tin Halide Perovskites* *Shengying Yue* *Xi'an Jiaotong University*
9:15-9:35	**SS01**	*Invited*	*Extreme Thermal Transport: Materials Discovery and Physics at the Limits of Temperature, Pressure, and Scale* *Man Li* *University of Science and Technology of China*
9:35-9:55	**SS01**	*Invited*	*Investigation on performance degradation of composite insulation materials under cryogenic moisture uptake* *Ruijiao Miao* *Shanghai Jiao Tong University*
9:55-10:15	**SS01**	*Invited*	热力学亚稳态下水中气体溶解和扩散性能 *Kang Liu* *Wuhan University*
10:15-10:30	*Coffee Break*		
10:30-10:50	**SS01**	*Invited*	*Nanoscale Thermal Transport in Advanced Semiconductor Devices and Interconnects* *Hua Bao* *Shanghai Jiao Tong University*
10:50-11:10	**SS01**	*Invited*	*Tailoring Thermal Transport in (Sc,Yb)AlN Thin Films to the Glassy Limit* *Qiye Zheng* *The Hong Kong University of Science and Technology*

Venue #1

Time	Index	Type	Details
11:10-11:40	**SS01**	*Keynote*	*Phase-Change Thermal Control Technology and Its Applications* *Yong Tang* *Shenzhen University/ South China University of Technology*
11:40-12:00	**SS01**	*Invited*	*Hydrogel overcomes the Leidenfrost barrier at 1000℃* *Zhi Huang* *Wuhan University*
12:00-12:20	**SS01**	*Invited*	*Flexible solid state thermal management materials and devices with high efficiency* *Rujun Ma* *Nankai University*
13:45-14:05	**SS01**	*Invited*	仿生絮状石墨烯微纳多孔结构及其热管理应用 *Shiwei Zhang* *South China University of Technology*
14:05-14:25	**SS01**	*Invited*	*Temperature control of hot spots in heat transfer process* *Kai Chen* *South China University of Technology*
14:25-14:40	**SS01**	*Regular Oral*	*Characterization of Acoustic Modes in Lithium Niobate Based on Transient Grating Spectroscopy Technology* *Chen Runhao, Liang Guo* *Southern University of Science and Technology*
14:40-15:00	**SS01**	*Invited*	*Hybrid mesh structure enables highly efficient liquid film boiling heat transfer* *Gong Chen* *South China University of Technology*
15:00-15:20	**SS01**	*Invited*	*Solvation-based Machine Learning Screening and Inverse Derivation of High-Performance Thermogalvanic Electrolytes* *Chao Fang* *The Hong Kong University of Science and Technology (Guangzhou)*
15:20-15:40	**SS01**	*Invited*	*Fabrication and performance evaluation of a phase-change thermal diode with scaly fins fiber wick* *Heng Tang, Guangzhao Yang* *Shenzhen University*
15:40-16:00	*Coffee Break*		

Venue #2

SS02: Energy Harvesting and Sensing for Biomedical Applications

Chairs: *Shiyuan Liu, Ying Hong, Yilong Wang, Biao Wang*

SS11: EH-based Self-powered Sensing

Chairs: *Kangqi Fan, Weiqun Liu, Jiawen Xu, Yipeng Wu, Zehao Hou*

Location: E1-122

July 05, 2026

Time	Index	Type	Details
08:30–09:00	**SS02**	*Keynote*	Optoelectronic Intelligence for Bioinspired In-Sensor Computing in Artificial Vision *Yang Chai* *The Hong Kong Polytechnic University*
09:00–09:20	**SS02**	*Invited*	Three-dimensional Structured Piezoelectric Ceramics and Their applications in Sensing and Energy Harvesting *Ying Hong* *Sichuan University*
09:20–09:40	**SS02**	*Invited*	Bio-inspired multi-scale interlocked triboelectric tactile sensor for hand gesture recognition and wireless robotic control *Biao Wang* *Sichuan University*
09:40–10:00	**SS02**	*Invited*	Design and Advanced Manufacturing of Flexible Wearable Bioelectronics *Shiyuan Liu* *The Hong Kong University of Science and Technology (Guangzhou)*
10:00–10:15	**SS02**	*Regular Oral*	Liquid-Mediated Vibration Control for Amplified Acoustic Energy Harvesting Through Metallic Packaging *JongGeun Park, Youngwook Chung, Sang-Woo Kim* *Yonsei University*
10:15–10:30	*Coffee Break*		

Venue #2

Time	Index	Type	Details
10:30–10:50	**SS02**	*Invited*	Nonlinear vibration and energy harvesting of a piezoelectric cantilever beam enhanced by a nonlinear boundary oscillator *Yunyue Cong, Liming Chen* *Guangxi University*
10:50–11:10	**SS02**	*Invited*	Multilayer sandwich structures: Dynamic modelling and free vibration *Meng Li* *Southwest Jiaotong University*
11:10–11:30	**SS02**	*Invited*	Wearable Olfaction Interface Systems for VR/AR/MR *Yiming Liu* *Macau University of Science and Technology*
11:30–11:50	**SS02**	*Invited*	Fiber optic-based LSPR application on cytosensing and photothermal treatment *Zewei Luo* *Sichuan University*
11:50–12:05	**SS02**	*Regular Oral*	Durable Ultrasound Energy Harvesting for Implantable Medical Devices Enabled by Acoustic Impedance-Controlled Triboelectric Membranes *Yeong Joo Jo, Young-Jun Kim, Sang-Woo Kim* *Yonsei University*
12:05–12:20	**SS02**	Regular Oral	Study on Axial Vibration Characteristics of Grinding Machine Feed System Considering Interface Contact *Bo Yang, Xingbao Huang, Yunyun Sun* *Wuhan University*
12:30–13:30	*Lunch*		
13:45–14:05	**SS11**	*Invited*	An autonomous entropy-reduction mechanism for modulating and converting ultralow-frequency vibration energy *Kangqi Fan* *Xidian University*
14:05–14:25	**SS11**	*Invited*	A Study on a Spherical Flow-Induced Vibration Energy Harvester with a Reinforced Structure *Mingjie Guan, Jun Chen, Ziqiao Shen* *Xiamen University of Technology*

Venue #2

Time	Index	Type	Details
14:25–14:40	**SS11**	*Regular Oral*	Synergistic Low-Disturbance Sensing and Efficient Energy Capture: A Bird-Beak-Inspired Piezoelectric VIV Harvester for Self-Powered Applications *Ruixin Li, Weiqun Liu* *Southwest Jiaotong University*
14:40–14:55	**SS11**	*Regular Oral*	Enhanced mechanical motion rectifier for inertial vibration energy harvesting by the energy-accumulation-and-rapid-release strategy *Zehao Hou, Kangjia Zhai, Nan Yang, Kangqi Fan, Junyi Cao, Yuanbo Li, Hangjia Dong, Gaoyang Hou* *Xidian University*
14:55–15:10	**SS11**	*Regular Oral*	Multi-Directional Triboelectric Nanogenerators for Self-Powered Sensing *Weiqi Zhang, Jiawen Xu* *Southeast University*
15:10–15:25	**SS11**	*Regular Oral*	A robust hybrid nanogenerator strategy achieved by regenerative motion transmission toward wind energy harvesting and self-powered sensing *Li Zhang, Kangqi Fan* *Xidian University*
15:25–15:40	**SS11**	Regular Oral	A robust maglev hybrid nanogenerator with an airflow-based motion conversion mechanism toward low-frequency mechanical energy harvesting and self-powered sensing *Zhenli Kuang* *Xidian University*
15:45–16:00	*Coffee Break*		
16:00–16:15	**SS11**	*Regular Oral*	Adaptive vibration-rotation integrated modulator for harvesting low-frequency energy toward self-powered vehicle intrusion alarming system *Kangjia Zhai, Zehao Hou, Kangqi Fan* *Xidian University*

Venue #2

Time	Index	Type	Details
16:15–16:30	**SS11**	*Regular Oral*	Research on Lower Limb Motion Energy Harvesting and Condition Monitoring Based on Locked Energy Storage and Reciprocating Ejection Frequency Upconversion Mechanism *Zhaofei Zhu, Hao Zheng* *Shaanxi University of Science & Technology*
16:30–16:45	**SS11**	*Regular Oral*	A high-performance dual-source hybrid harvester utilizing wind-vibration synergy *Haobo Huang* *Xidian University*
16:45–17:00	**SS11**	*Regular Oral*	Low-frequency mechanical energy harvesting by plucking-rotation mechanism *Qinxue Tan* *Chang'an University*

Venue #3

SS03: Rotational Energy Harvesting

Chairs: *Hailing Fu, Xutao Mei, Shengxi Zhou, Yang Kuang, Haitao Xu, Xiaoqing Ma*

SS06: Self-powered Integrated System and Application

Chairs: *Sixing Xu, Weiqiang Zhang*

SS08: Electret-related Devices for Self-powered Sensing and Energy Harvesting

Chairs: *Kai Tao, Fei Wang, Xiaoqing Zhang*

Location: E1-102

July 05, 2026

Time	Index	Type	Details
08:30–08:50	**SS03**	*Invited*	Rotational and translational combined electromagnetic energy harvesting mechanism with pendulum-like structures *Ruqi Sun, Shengxi Zhou, Zhongjie Li, Li Cheng* *Chang'an University*
08:50–09:10	**SS03**	*Invited*	Nonlinear response identification of a parametrically excited bistable magnetic rolling pendulum harvester *Wei Wang* *Zhengzhou University*
09:10–09:30	**SS03**	*Invited*	Adaptive biomechanical energy harvesting and self-powered human motion sensing *Lin-Chuan Zhao, Ze-Wen Chen, Hong-Xiang Zou* *Shanghai Jiao Tong University*
09:30–09:50	**SS03**	*Invited*	Multisource Energy Harvesting for Powering Wireless Sensing System *Lu Wang* *Xi'an Jiaotong University*
09:50–10:10	**SS03**	*Invited*	Nonlinear dynamics and design optimization of wind-induced vibration energy harvesters *Xiaoqing Ma* *Zhengzhou University*

Venue #3

Time	Index	Type	Details
10:15–10:30	*Coffee Break*		
10:30–10:50	**SS03**	*Invited*	Rotational Energy Harvesting: Mechanisms, Conversion Strategies, and Applications *Yu Pan* *Tongji University*
10:50–11:10	**SS03**	*Invited*	Signal enhancement method based on stochastic resonance *Haitao Xu* *Changchun University of Science and Technology*
11:10–11:25	**SS03**	*Regular Oral*	Study on electromagnetic rotational energy harvester based on a dual-layer Halbach array *Xiaolin Kang, Pan Zhang, Wenbin Huang* *Chongqing University*
11:25–11:40	**SS03**	*Regular Oral*	A Compact Dual-Rotor Wrist-Worn Energy Harvester Based on Axial-Flux Topology for Self-Powered Wearable Devices *Meilin Gu, Ziyue Kong, Haopeng Xie, Zixuan Zhang, Fang Deng, Hailing Fu* *Beijing Institute of Technology*
11:40–11:55	**SS03**	*Regular Oral*	A Rotational Energy Harvester Driven by Human Breathing Motion for Wearable Electronics *Gantong Chen, Bohao Duan, Yue Zhu, He Ma, Shengxi Zhou* *Northwestern Polytechnical University*
11:55–12:10	**SS03**	Regular Oral	Gear-Amplified and Pendulum-Enhanced Electromagnetic Energy Harvesting from Human Motion *Yukun Jing, Guansong Shan, Jie Song* *Xi'an Jiaotong-Liverpool University*
12:30–13:30	*Lunch*		
13:45–14:00	**SS03**	*Regular Oral*	Auxetic-assisted flexible triboelectric sensors for human motion monitoring and posture recognition *Sheng Liu, Ming-Hui Liu, Yu-Bin Fu, Wei-Ming Qing, Zi-Yang Yu* *Hunan Institute of Engineering*

Venue #3

Time	Index	Type	Details
14:00–14:15	**SS03**	*Regular Oral*	Dynamic modeling and performance analysis of an asymmetric tri-stable E-grade rotational energy harvester *Wenchao Fu, Yongyong Cao, Jiacheng Ni, Xinghang Wei, Fenghua Zhu* *Lanzhou University of Technology*
14:15–14:30	**SS03**	*Regular Oral*	A Parallel-Resonance-Enhanced Synchronous Magnetic Flux Extraction Circuit for Electromagnetic Energy Harvesters on AC Transmission Lines *Shanghao Gu, Shumiao Xuan, Weihan Xu, Fei Wang* *Southern University of Science and Technology*
14:30–14:45	**SS03**	*Regular Oral*	A Rope-Driven Rotational Hybrid Energy Harvester For Low-Frequency Kinetic Energy Harvesting *Mingxin Li, Shumiao Xuan, Weihan Xu, Fei Wang* *Southern University of Science and Technology*
14:45–15:05	**SS06**	*Invited*	Programmable Mechanical and Dynamic Behaviors of Multi-Stable Origami through Energy Landscape Design *Hesheng Han, Dengqing Cao* *Sun Yat-sen University*
15:05–15:20	**SS06**	*Regular Oral*	A Compact Nature-Inspired Conical Spiral Rectenna for Wireless Power Transfer and Self-powered IoT Sensing *Ruizhe Hou, Xingwang Zhou, Zhuowen Liu, Yeyun Cai, Xiangyang Wang, Fang Deng, Hailing Fu* *Beijing Institute of Technology*
15:20–15:35	**SS06**	*Regular Oral*	Environmental Life Cycle Assessment of Self-powered Wireless Sensing E-sticker (SWISE) Based Devices *Zuoqing Luo, Xin Xia, Yunlong Zi* *The Hong Kong University of Science and Technology (Guangzhou)*
15:45–16:00	*Coffee Break*		

Venue #3

Time	Index	Type	Details
16:00–16:15	**SS06**	*Regular Oral*	Conformal Hydrovoltaic Patches Enabling Stable Power Generation under Intermittent Humidity *Yoojin Park, Xiao Xiao, Sang-Woo Kim, Dong-Hwan Kim* *Yonsei University*
16:15–16:30	**SS06**	*Regular Oral*	An Integrated Triboelectric Neuromodulation Platform via In-body Current Path Engineering *Sol Lee, Donghyeon Kang, Sang-Woo Kim* *Yonsei University*
16:30–16:45	**SS06**	*Regular Oral*	Information-transparent Bioelectronics Enabling Real-time Monitoring of TransientImplants *Yong Hyun Kwon, Xiangchun Meng, Peng Tao, Wai-Yeung Wong, Sang-Woo Kim* *Yonsei University*
16:45–17:00	**SS06**	*Regular Oral*	All-in-one floating capsule for self-powered decentralized water detection and disinfection *Min Jae Park, Dong-Min Lee, Zheng-Yang Huo, Sang-Woo Kim* *Yonsei University*
17:00–17:15	**SS08**	*Regular Oral*	Enhancement of the Droplet Triboelectric Nanogenerator Enabled by a Vertical Cutting Mechanism *Lixin Lu, Guannan Hao* *Qingdao University*
17:15–17:30	**SS08**	*Regular Oral*	Mechanism of charge collapse beyond the back-switching saturation limit in cellular piezoelectrets *Hantao He, Xingchen Ma, Xiaoqing Zhang* *Tongji University*

Venue #4

SS04: Advanced Metamaterials for Energy Harvesting and Intelligent Sensing

Chairs: *Yabin Jin, Yupei Jian, Yuqiang Gao*

SS07: Vibration Energy Harvesting for Next-Generation Smart Transportation and Aerospace Systems

Chairs: *Yong Qin, Xiuhan Li*

SS10: Thermally Powered Energy Systems for Sustainable Heating, Cooling, and Electricity Generation

Chairs: *Geng Chen, Youcai Liang, Rui Yang*

SS15: Flexible Wearable MEMS Sensors

Chairs: *Bin Yang*

Location: E1-147

July 05, 2026

Time	Index	Type	Details
08:30–08:50	**SS04**	*Invited*	Intermittent coupled topological waveguides for broadband high-throughput energy conveying and harvesting *Jiawen Xu, Shiqi Tong, Weiqi Zhang, Ruqiang Yan* *Southeast University*
08:50–09:10	**SS04**	*Invited*	Application of topological phononic crystals in underwater acoustic energy harvesting *Tian-Xue Ma, Xiao-Lei Tang, Miso Kim, Yue-Sheng Wang* *Beijing Jiaotong University*
09:10–09:30	**SS04**	*Invited*	Enhanced Energy Harvesting with Piezoelectric Metamaterial Sandwich Beam Shunted to an SECE Circui *Zhenkun Guo* *University of Science and Technology Beijing*

Venue #4

Time	Index	Type	Details
09:30–09:45	**SS04**	*Regular Oral*	Elastic Metamaterials for Multi-Directional and Multi-Source Vibrations Identification *Yao Wu, Yupei Jian, Lihua Tang* *The University of Auckland*
09:45–10:00	**SS04**	*Regular Oral*	The design of spatial compliant mechanisms with distributed multi-stability based on post-buckled cylindrical compliant beams *Haitong Liang, Guangbo Hao, Jonathan B. Hopkin* *Beijing Forestry University*
10:00–10:15	**SS04**	*Regular Oral*	Gate-controlled Elastic-Wave Transistor Based on Nonlinear Multiple Scattering *Bao Zhao, Yifei Xu, Songye Zhu* *The Hong Kong Polytechnic University*
10:15–10:30	*Coffee Break*		
10:30–10:45	**SS04**	*Regular Oral*	Programmable Non-Hermitian Active Metamaterials with Tunable Bandgaps and Reconfigurable Skin Effects *Yuqiang Gao* *Hefei University of Technology*
10:45–11:00	**SS04**	*Regular Oral*	Inverse Design of Modular Metamaterials for Programmable Stress-Strain Responses *Weihao Tong, Shuai Liu, Ruohan Li, Yuhang Zhang, Kai Yang* *Huazhong University of Science and Technology*
11:00–11:20	**SS07**	*Invited*	Multimechanism Energy Conversion for Efficient Low-Frequency Mechanical Energy Harvesting *Xiuhan Li* *Beijing Jiaotong University*
11:20–11:40	**SS07**	*Invited*	Self-Powered Triboelectric Smart Buoys for Sustainable Marine IoT *Xiya Yang, Wending Zuo, Jinda Lin, Shuling Li, Xue Gong* *Jinan University*
11:40–11:55	**SS07**	*Regular Oral*	A Frequency-Up-Conversion Electromagnetic Energy Harvester for Long-Term Smart Transportation Infrastructure Monitoring *Xinhui Mao, Chentao Zhang, Kai Tao* *Northwestern Polytechnical University*

Venue #4

Time	Index	Type	Details
11:55–12:10	**SS07**	*Regular Oral*	A Durable Triboelectric–Electromagnetic Nanogenerator with Non-Contact Magnetic Transmission for Rail Transit Wind Energy Harvesting *Xiangqian Lu* *Beijing Jiaotong University*
12:30–13:30	*Lunch*		
13:45–14:05	**SS15**	*Invited*	Piezoelectric and electromagnetic coupled energy harvesting for wearable backpack systems *Lipeng He* *Changchun University of Technology*
14:05–14:25	**SS15**	*Invited*	Self-Powered E-Skins for Human-Machine Interactions and Intelligent Robotics *Qiongfeng Shi* *Southeast University*
14:25–14:45	**SS15**	*Invited*	Vibration control and piezoelectric energy harvesting of lightweight subwavelength detect mode acoustic metamaterials *Yufeng Zhang, Guanghui Xia* *Anhui Jianzhu University*
14:45–15:05	**SS15**	*Invited*	A double-well potential expansion mechanism for omni-directional broadband mems bi-stable energy harvester *Kai Wang, Ran Zhang, Xuanyu Huang, Dengyin Zhang* *Nanjing University of Posts and Telecommunications*
15:05–15:25	**SS15**	*Invited*	Cellulose composite aerogel triboelectric sensor for self-powered wearable electronics *Peihong Wang* *Anhui University*
15:25–15:45	**SS15**	*Invited*	A Self-Powered Sensor Based on MXene/N-CNT/Carbon Black for Computer Control via Smart Gloves *Lingfei Qi, Yiyan Zhang, Hao Li, Jinyan Feng, Ze Lei, Ruilin Shi, Mansour Abdelrahman* *Guizhou University*

Venue #4

Time	Index	Type	Details
15:45–16:00	*Coffee Break*		
16:00–16:15	**SS15**	*Regular Oral*	On the use of a downstream spoiler to tune power generation behaviors of piezoelectric wind energy harvesters *Zhonghua Zhang, Junwu Kan, Jin Wang, Shuyun Wang, Mengsong Zhu, Weilin Liao* *Zhejiang Normal University*
16:15–16:30	**SS15**	*Regular Oral*	Electromagnetic-piezoelectric hybrid vibration energy harvesting and its application in low-power application *Yufeng Su, Zhiyong Pang, Yihang Li* *Zhengzhou University*
16:30–16:45	**SS10**	*Regular Oral*	Development of a Novel Thermoacoustically-Driven Honeycomb-Structured Triboelectric Nanogenerator for Wireless Sensing *Yue Zhang, Yawei Wang, Guobiao Hu, Lihua Tang, Geng Chen* *Southeast University*
16:45–17:00	**SS10**	*Regular Oral*	A Supercritical Thermoacoustic Engine with Copper Foam Heat Exchangers and an Extendable Configuration *Anqi Fang, Zhan-Chao Hu* *Sun Yat-sen University*
17:00–17:15	**SS10**	*Regular Oral*	High-capacity and Affordable Direct Air Capture via Integration with Compressed Air Energy Storage *Peigong Liu, Jian Zeng* *The Hong Kong University of Science and Technology (Guangzhou)*

Venue #5

SS05: Mechanical Energy Harvesting and Self-powered Sensing

Chairs: *Minyi Xu, Taili Du, Yan Wang, Pengfei Chen, Hongfa Zhao, Chuanqing Zhu*

SS13: Applications of Energy Harvesting in Advancing AIoT

Chairs: Peilun Yin, Guobiao Hu, Xiaozhen Du, Zhongjie Li

SS20: Metamaterials for Intelligent Sensing and Structural Health Monitoring

Chairs: *Zhilu Lai, Songye Zhu, Bao Zhao, Guobiao Hu*

Location: E1-148

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Time	Index	Type	Details
08:30–08:50	**SS13**	*Invited*	Triboelectric-Piezoelectric Hybrid Wind Energy Harvesting Mechanism Using Flag-Dragging Cantilever Beams *Xiaozhen Du* *Shandong University of Science and Technology*
08:50–09:05	**SS13**	*Regular Oral*	Venturi-Induced Triboelectric Nanogenerator for Industrial Exhaust Airflow Energy Harvesting and Self-Powered Environmental Monitoring *Fei Zhang* *Beijing Institute of Nanoenergy and Nanosystems*
09:05–09:20	**SS13**	*Regular Oral*	Harnessing Human Motion Energy by a Rolling-Swing Electromagnetic Energy Harvester with Counter-Rotations *Peilun Yin* *Shanghai University*
09:20–09:35	**SS20**	*Regular Oral*	Thermal stability design for flexural wave manipulation and vibration energy harvesting performance of metamaterial plates *Qian Geng, Xing Zhou, Mengyang Wang, Xiongwei Yang, Zhushan Shao, Yueming Li* *Xi'an University of Architecture and Technology*
09:35–09:50	**SS20**	*Regular Oral*	Mechanical in-sensor computing: A programmable meta-sensor for structural damage classification without external electronic power *Tingpeng Zhang, Guobiao Hu, Zhilu Lai* *The Hong Kong University of Science and Technology (Guangzhou)*

Venue #5

Time	Index	Type	Details
09:50–10:05	**SS20**	*Regular Oral*	Multi-parameter Inversion of Bolted Connections Using PFA Piezoelectric Fiber Smart Bolt Gaskets and Mamba State Space Models *Guoliang Li, Lian Zhou, Xinyang Ren, Xingchen Ma, Xiaoqing Zhang* *Tongji University*
10:15–10:30	*Coffee Break*		
10:30–10:45	**SS20**	*Regular Oral*	Design and Parameter Optimization of a Tubular Auxetic Piezoelectric Vibration Energy Harvester *Jin-Yang Li, Zhiyu Xia, Mingyang Ma* *Dalian University of Technology*
10:45–11:00	**SS20**	*Regular Oral*	On the degenerate resonance mechanism for extreme Rayleigh wave conversion *Yifei Xu, Bao Zhao, Songye Zhu* *The Hong Kong Polytechnic University*
11:00–11:15	**SS20**	*Regular Oral*	Vibration Suppression Characteristics of Compression–Torsion Metamaterials and Their Application in Robotic Manipulators *Yupei Jian* *Southwest Jiaotong University*
11:15–11:30	**SS05**	*Regular Oral*	Wearable pendulum-based triboelectric-electromagnetic hybrid generator for human motion energy harvesting and recognition *Yipeng Meng, Tianyuan Xiong, Xueting Zhang, Zhenlong Xu, Yingxuan Li, Pei Huang, Wanheng Ye, Qingkai He, Puhan Yang, Shenyu Sun, Chengping Deng, Shiping Li, Zhangyi Shen* *Hangzhou Dianzi University*
11:30–11:45	**SS05**	*Regular Oral*	Design and Performance Research of Wearable-oriented Flexible Sensing and Self-powered Integrated Devices *Jiahao Zhang, Xingyu Pan, Yangyang Wang, Guangqing Wang* *Zhejiang Gongshang University*
11:45–12:00	**SS05**	*Regular Oral*	Energy management circuit based on mechanical switching system towards improved energy conversion efficiency for road energy harvesting *Rui Zhong, Chung Ket Thein, Dunant Halim, John Xu* *University of Nottingham Ningbo China*
12:00–12:15	**SS05**	*Regular Oral*	Inter-well Transition Mechanism and Power Enhancement of a Magnetically Coupled Dual-beam Harvester under Random and Vortex-Induced Excitations *Liying Wu, Shun Weng, Hongping Zhu, Lanbin Zhang, Huliang Dai* *Huazhong University of Science and Technology*

Venue #5

Time	Index	Type	Details
12:15–12:30	**SS05**	*Regular Oral*	Strategies and Mechanisms for Maximizing Triboelectric/Piezoelectric Energy Harvesting *Ru Guo, Yunlong Zi* *Central South University*
12:30–13:30	*Lunch*		
13:45–14:00	**SS05**	*Regular Oral*	A Self-Powered Wireless Human–Machine Interaction System Enabled by TENG-Driven Pointed-Electrode Breakdown Discharge *Yihang Gan, Yunlong Zi* *The Hong Kong University of Science and Technology (Guangzhou)*
14:00–14:15	**SS05**	*Regular Oral*	A self-powered magnetic energy harvester with high output power on transmission lines *Jinhong Dai* *The Hong Kong University of Science and Technology (Guangzhou)*
14:15–14:30	**SS05**	*Regular Oral*	Self-powered wireless rapid oil quality sensing system based on triboelectric-discharge effect *Fengyi Chen* *The Hong Kong University of Science and Technology (Guangzhou)*
14:30–14:45	**SS05**	*Regular Oral*	Submicron Pillars Surface Triboelectric Acoustic Sensor for High-Sensitivity Wearable Throat Vibration Monitoring and Speech Recognition *Donglin Hu* *The Hong Kong University of Science and Technology (Guangzhou)*
14:45–15:00	**SS05**	*Regular Oral*	A Circular-Track Rolling Triboelectric Nanogenerator for Omnidirectional Wave Energy Harvesting *Ziyue Xi, Shiqi Zhao, Xu Zhou, Minyi Xu, Hao Wang* *Dalian Maritime University*
15:00–15:15	**SS05**	*Regular Oral*	Topology-to-Performance Design of Mechanical Transformers for Strongly Coupled PZT-Stack Energy Harvesting *Chunxi Huang, Xiangfeng Gu, Yang Kuang* *Central South University*
15:15–15:30	**SS05**	*Regular Oral*	Vibration reduction and energy harvesting of a pendulum with a (radially-placed) ball-contact dielectric elastomer generator *Li Zhao* *Zhejiang Normal University*

Venue #5

Time	Index	Type	Details
15:30–15:45	**SS05**	*Regular Oral*	A Stretchable Fiber Triboelectric Sensor for Monitoring in Large-Deformation Systems *Hengxu Du, Mengwei Wu, Yuzhuo Tian, Yaning Chen, Rongming Zhang, Chunyu Zhang, Yimeng Du* *Dalian Maritime University*
15:45–16:00	*Coffee Break*		
16:00–16:15	**SS05**	*Regular Oral*	The design and dynamics of a broadband piezoelectric energy harvester based on modal densification are investigated. *Xinxin Pang, Wenke Chen, Hai Zhang, Luyao Yuan, Weihao Ma* *Lanzhou University of Technology*
16:15–16:30	**SS05**	*Regular Oral*	An Enhanced Underwater Piezoelectric Energy Harvester with Y-shaped Attachments for Low-speed Water Flow *Jun Chen, Tianxiang Zhang, Yucen Jin, Weifeng Wang, Mingjie Guan* *Xiamen University of Technology*
16:30–16:45	**SS05**	*Regular Oral*	Tunable Ternary-Synergistic Aerogels with Multifunctional Sites and Hierarchical Porosity for High-Performance Capturing and Triboelectric Sensing of Iodine *Qiang Zhang* *Anhui University*
16:45–17:00	**SS05**	*Regular Oral*	Self-Powered Wireless Sensing Integrated System Based on Mechanical Energy Harvesting *Jianhua Zeng, Youchao Qi* *Guilin University of Electronic Technology*
17:00–17:15	**SS05**	*Regular Oral*	High performance and stackable Trampoline like-Triboelectric Vibration Energy Harvester for in-situ Powering Sensor Node with Data Wirelessly Transmitted over 1000-m *Hongyong Yu, Hengxu Du, Ziyue Xi, Minyi Xu* *Dalian Maritime University*

Venue #6

SS09: Artificial Intelligence Enabled Self-Powered Sensing

Chairs: *Guoqiang Xu, Hao Wu, Xiaoyi Li*

SS19: Ocean Energy and Environment: Generators/Sensors/Simulators

Chairs: *Jiaqi Wang, Wenbo Gao*

SS21: Flow-induced Vibration Energy Harvesting and Its Applications

Chairs: *Huliang Dai, Lin Wang*

SS23: Self-Sustaining Wearable Systems: Materials, Devices and Applications

Chairs: *Linchuan Zhao, Sheng Liu, Hongxiang Zou*

Location: E1-134

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Time	Index	Type	Details
08:30–09:00	**SS23**	*Keynote*	Triboelectrification at Solid-Liquid Interfaces: Surface Chemistry-Driven Charge Transfer for Self-Powered Nanosensing *Zong-Hong Lin* *National Taiwan University*
09:00–09:15	**SS23**	*Regular Oral*	Dynamic modeling and experimental investigation of a snap-through triboelectric nanogenerator for low-speed wind energy harvesting *Quan Bai, Weiye Ai* *Hunan Institute of Engineering*
09:15–09:30	**SS23**	*Regular Oral*	A Wearable Lower-Limb Electromechanical System for Integrated Energy Harvesting and Assistance Based on Unidirectional Decoupling *Shucheng Li, Zhemin Wang, Junhua Zhao* *Jiangnan University*
09:30–09:45	**SS23**	*Regular Oral*	Revolutionizing Health Monitoring with Fully Breathable Smart Wearable Technology *Youchao Qi* *The Hong Kong Polytechnic University*

Venue #6

Time	Index	Type	Details
09:45–10:00	**SS23**	*Regular Oral*	Design and Characteristics of Flexible Integrated Sensing and Self-Powering Device Based on PVDF/ZnO *Jiahao Zhang, Xingyu Pan, Yangyang Wang, Guangqing Wang* *Zhejiang Gongshang University*
10:00–10:15	**SS23**	Regular Oral	Vibration-Wave Coupled Dynamics of Piezoelectric Wrinkle Structures for Energy Harvesting *Xiuyuan Li, Kaiming Hu, Wenming Zhang* *Shanghai Jiao Tong University*
10:15–10:30	*Coffee Break*		
10:30–10:50	**SS09**	*Invited*	Gel-based triboelectric nanogenerator for self-powered intelligent sensing in harsh environment *Xiaoyi Li* *Ocean University of China*
10:50–11:05	**SS09**	*Regular Oral*	A CNN-LSTM Framework for Dynamic Response Prediction of Nonlinear Piezoelectric Energy Harvesters *Yangyang Wang, Xingyu Pan, Jiahao Zhang, Guangqing Wang* *Zhejiang Gongshang University*
11:05–11:20	**SS09**	*Regular Oral*	Bimodal Tactile Sensor Array with Human-Skin-Like Graphesthesia Sensation *Shaoshuai He, Yunlong Zi* *The Hong Kong University of Science and Technology (Guangzhou)*
11:20–11:35	**SS09**	*Regular Oral*	Degradable Triboelectric Nanogenerator for Intelligent Self-Powered Sensing and Seed Growth Promotion *Na Xue, Xiaoyi Li* *Ocean University of China*
12:30–13:30	*Lunch*		
13:45–14:05	**SS19**	*Invited*	Self-Powered Synchronous Dual-Channel Water Quality Classification by a novel Mechano-Electro-Opto-Coupling Approach *Jiaqi Wang, Zixian Lai* *Sun Yat-Sen University*

Venue #6

Time	Index	Type	Details
14:05–14:20	**SS19**	*Regular Oral*	Multifunctional Biomimetic Lateral Line Sensing System Based on Triboelectric and Piezoelectric Effects for Multi-Scenario Water Flow Velocity-Pressure Perception *Songchuan Zheng, Yunlong Zi* *The Hong Kong University of Science and Technology (Guangzhou)*
14:20–14:35	**SS19**	*Regular Oral*	Towards Self-Powered Buoy: A Magnet Driven Hybrid Wave Energy Harvester with Regulated Output *Yiru Wang* *The Hong Kong University of Science and Technology (Guangzhou)*
14:35–14:50	**SS19**	*Regular Oral*	High-Performance Cathodic Protection Self-Powered by Triboelectric-Electromagnetic Hybrid Nanogenerator *Zhijun Wang* *The Hong Kong University of Science and Technology (Guangzhou)*
14:50–15:05	**SS19**	*Regular Oral*	Self-Powered Water Quality Optical Inspection as Mechanically Triggered by Time-Controlled Instantaneous Discharging *Zixian Lai, Jiaqi Wang* *Sun Yat-sen University & Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai)*
15:05–15:20	**SS19**	*Regular Oral*	A Capsule-Structured Rolling-Ball Triboelectric Nanogenerator for Self-Powered Wind Sensing with Remote Dual-Mode Optical Readout *Zhijian Li, Jiaqi Wang* *Sun Yat-sen University & Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai)*
15:20–15:40	**SS21**	*Invited*	Wind velocity driven mode transition based piezoelectric energy harvesting utilizing fork-shaped configuration *Lili Dong, Fayu Guo, Wan Sun* *Jiangsu University*
15:45–16:00	*Coffee Break*		

Venue #6

Time	Index	Type	Details
16:00–16:15	**SS21**	*Regular Oral*	A broadband low inertia ratio pendulum-type vortex-induced vibration energy harvester *Mengyu Fan, Yimin Fan, Mu-Qing Niu, Li-Qun Chen* *Harbin Institute of Technology, Shenzhen*
16:15–16:30	**SS21**	*Regular Oral*	An internally impacting hybrid piezo-dielectric harvester for vortex-induced vibrations *Jianwei Zhang, Shiju E* *Zhejiang Normal University*
16:30–16:45	**SS21**	*Regular Oral*	Power Generation Performance of a Galloping Piezoelectric Energy Harvester with a Symmetrically Rear-Chamfered Square Cylinder *Xinru Jin, Yuanmin Xiong, Hongyan Wang* *Qiqihar University*
16:45–17:00	**SS21**	*Regular Oral*	Effects of spacing and damping on energy harvesting in a cylinder–plate–cylinder system with coupled wake-interference and induced vibrations *Maojin Gong, Bassam Dally* *King Abdullah University of Science and Technology (KAUST)*
17:00–17:15	**SS21**	*Regular Oral*	A Flow Induced Motion Based Wake Analysis Framework for Floating Wind Turbines Using Fully Coupled Platform Dynamics *Jing Chen, Binrong Wen, Xinliang Tian, Shuai Li, Huilin Guo, Xin Li* *Shanghai Jiao Tong University*

Venue #7

SS12: Nonlinear Phenomena and Coupled Dynamics in Electro-mechanical Systems for Vibration Energy Harvesting

Chairs: *Yimin Fan, Marco Amabili, Li-Qun Chen*

SS16: Nonlinear Dynamics Behaviors in Energy Harvesting System

Chairs: *Haitao Li, Wenan Jiang, Jianan Pan, Cong Yue, Weiyang Qin*

SS18: Weak Energy Harvesting and Self-Powered Sensing

Chairs: *Chi Zhang, Guoxu Liu, Jie Cao*

Location: E1-149

July 05, 2026

Time	Index	Type	Details
08:30–08:50	**SS18**	*Invited*	RF oscillator-based self-powered instantaneous wireless sensing system for environmental monitoring and wearable applications *Jinkai Chen, Menghao Xi, Jikui Luo* *Hangzhou Dianzi University*
08:50–09:10	**SS12**	*Invited*	Twist moire acoustic metasurface *Tianzhi Yang* *Northeastern University*
09:10–09:30	**SS12**	*Invited*	Design of a Roadside Energy Harvesting Device Based on Auxetic Speed Bump Excitation *Hongxiang Zou, Qikun Chen* *Hunan Institute of Engineering*
09:30–09:50	**SS12**	*Invited*	Cross-scale dynamics of micro-nano electromechanical systems and its sensing applications *Kai-Ming Hu* *Shanghai Jiao Tong University*

Venue #7

Time	Index	Type	Details
09:50–10:05	**SS12**	*Regular Oral*	Performance enhancements of parametrically excited energy harvesters *Yimin Fan, Li-Qun Chen* *Harbin Institute of Technology (Shenzhen)*
10:15–10:30	*Coffee Break*		
10:30–10:45	**SS12**	*Regular Oral*	A Spatially Orthogonal Coupled Multimode Piezoelectric Energy Harvester *Hai-Tao Yang, Yimin Fan, Mu-Qing Niu, Li-Qun Chen* *Harbin Institute of Technology (Shenzhen)*
10:45–11:00	**SS12**	*Regular Oral*	Nonlinear dynamics of a bistable magnetic rolling pendulum harvester with bilateral stoppers under multi-directional excitation *Enna Zhang, Wei Wang* *Zhengzhou University*
11:00–11:15	**SS12**	*Regular Oral*	Design and Analysis of Hybrid-Conversion Parallel Nonlinear Energy Sinks for Integrated Vibration Mitigation and Energy Harvesting *Muxuan Guo, Shitong Fang, Lihua Tang, Wei-Hsin Liao* *The University of Auckland*
11:15–11:30	**SS12**	*Regular Oral*	A piezoelectric energy harvester indirectly excited via magnetic coupling under wind and base vibration *Jialin Zhang, Xuhui Zhang, Jianan Pan, Jingyuan Yang, Chenbao Zhang, Bo Yun, Si Lu* *Xi'an University of Science and Technology*
11:30–11:45	**SS12**	*Regular Oral*	Hummingbird hawkmoth-inspired piezoelectric vibration energy harvester *Xingyu Pan, Yangyang Wang, Jiahao Zhang, Guangqing Wang* *Zhejiang Gongshang University*
11:45–12:00	**SS12**	Regular Oral	Study on the Characteristics of an Auto-Parametric Pendulum Resonant Piezoelectric Energy Harvester *Zhui Tian, Yongdong Cheng* *Shaanxi University of Science & Technology*
12:00–12:15	**SS12**	*Regular Oral*	Design and Analysis of a Folded-Back Magnetically Coupled Piezoelectric Energy Harvester *Hai Zhang, Wenke Chen, Xinxin Pang, Luyao Yuan, Weihao Ma* *Lanzhou University of Technology*

Venue #7

Time	Index	Type	Details
12:30–13:30	*Lunch*		
13:45–14:05	**SS16**	*Invited*	Energy transfer mechanism and vibration reduction performance of hysteretic multistable nonlinear energy sink *Hongxiang Hu, Zhongwen Zhang, Chee-Kiong Soh* *Southeast University*
14:05–14:20	**SS16**	*Regular Oral*	Design and characteristic analysis of environmental energy harvester driven by dynamic inertial force *Qi Liu, Weiyang Qin, Yongfeng Yang, Zhiyong Zhou* *Nanyang Normal University*
14:20–14:35	**SS16**	*Regular Oral*	An improved galloping-based wind generator with a bio-inspired Y-shaped attachment for low-speed wind energy harvesting *Zhong-Cai Zhang, Haitao Li, Meng Qi* *North University of China*
14:35–14:50	**SS16**	*Regular Oral*	Exploring the potential benefits of a peanut-shaped auxetic galloping energy harvesting system *Meng Qi, Haitao Li* *North University of China*
14:50–15:05	**SS16**	*Regular Oral*	Decomposition chaos in bi-stable energy harvesters in terms of unstable periodic orbits *Xukun Su, Zhihui Lai* *Shenzhen University*
15:05–15:20	**SS16**	*Regular Oral*	Nonlinear dynamics of a beam-spring magnetically coupled bistable piezoelectric energy harvester *Zihao Yang, Wei Wang* *Zhengzhou University*
15:20–15:35	**SS16**	*Regular Oral*	Deep-learning enabled inverse design method for piezoelectric energy harvesters *Chen Xi, Chunbo Lan* *Nanjing University of Aeronautics and Astronautics*

Venue #7

Time	Index	Type	Details
15:45–16:00	*Coffee Break*		
16:00–16:15	**SS16**	*Regular Oral*	Vibration energy harvesting by hybrid electromagnetic-piezoelectric structure with dynamic buckling bistability *Jinwen Wang, Jinwei Li, Jianan Pan, Weiyang Qin* *Northwestern Polytechnical University*
16:15–16:30	**SS16**	*Regular Oral*	Investigation on Efficiency Characteristics of Magnetically Coupled Bistable Vibration Energy Harvesters *Qiubo Jiang* *Chongqing University of Science and Technology*
16:30–16:45	**SS16**	*Regular Oral*	Dynamic analysis and experimental validation of a hybrid piezoelectric–electromagnetic harvester for multi-directional vibration energy harvesting *Jinwei Li, Weiyang Qin, Mengjie Shang, Jinwen Wang* *Northwestern Polytechnical University*
16:45–17:00	**SS16**	*Regular Oral*	Upstream bluff body rotation induces nonlinear behavior for enhancing tandem bluff body wind-induced vibration piezoelectric energy harvesting *Mengjie Shang, Weiyang Qin* *Northwestern Polytechnical University*
17:00–17:15	**SS16**	*Regular Oral*	A Voltage-driven Multistable Dielectric Elastomer Generator *Jianbo Tan, Shiju E, Jianwei Zhang* *Zhejiang Normal University*
17:15–17:30	**SS16**	*Regular Oral*	Enhanced random vibration energy harvesting under low-level excitation via an elastically supported tri-stable piezoelectric harvester *Wenzhuo Guo, Shuailing Sun, Tingcong Ye, Yu Cai, Zhenyang Tan, Xiaoyu Chen, Ningning Wang* *Hangzhou Dianzi University*
17:30–17:45	**SS16**	*Regular Oral*	Research on the Characteristics and Parameter Influence of a Y-shaped Inverted Beam Energy Harvester with Double Fixed Magnets *Wangzheng Deng, Weiyang Qin* *Kashi University*

Venue #8

SS14: Energy Harvesting for Railway Systems

Chairs: *Yang Kuang, Shengxi Zhou, Yingli Li, Yilong Wang*

SS17: Water Energy Harvesting

Chairs: *Wanghuai Xu*

SS22: Spacecraft Vibration and Energy Harvesting

Chairs: *Ti Chen, Yanping Song, Jialiang Sun*

SS24: Bio-inspired Structure Dynamics and Vibration Isolation

Chairs: *Bo Yan, Ge Yan, Hongye Ma*

Location: E1-150

July 05, 2026

Time	Index	Type	Details
08:30–08:50	**SS14**	*Invited*	Self-contained wireless monitoring of ballastless track slabs in high-speed railway *Mingyuan Gao, Ping Wang* *Southwest University*
08:50–09:10	**SS14**	*Invited*	Low-Profile Quasi-Zero-Stiffness Structure for Simultaneous Vibration Isolation and Piezoelectric Energy Harvesting *Yilong Wang, Yuepeng Feng* *Harbin Institute of Technology*
09:10–09:30	**SS14**	*Invited*	An Integrated Framework for Piezoelectric Energy Harvesting from Bridge Vibrations: Dynamics, Circuits, and Broadband Array Design *Zhiwei Zhang, Yifei Deng, Hongjun Xiang, Lihua Tang* *Beijing Forestry University*
09:30–09:50	**SS14**	*Invited*	A sustainable and enhanced-performance vibration energy harvester for application on railway bridge: Design, modeling, and analysis *Huirong Zhang, Shengxi Zhou* *Northwestern Polytechnical University*

Venue #8

Time	Index	Type	Details
09:50–10:10	**SS24**	*Invited*	Deep Learning-Assisted Surrogate Optimization for Metamaterials with Coupled Structural Parameters and Diverse Performance Requirements *Kai Yang, Yuhang Zhang* *Huazhong University of Science and Technology*
10:15–10:30	*Coffee Break*		
10:30–10:45	**SS14**	*Regular Oral*	Theoretical, numerical, and experimental analysis of a broadband and high-capability graded E-shaped piezoelectric energy harvester array under various vibrations *Pingping Liu, Hongjun Xiang, Zhiwei Zhang, Tao Wang, Daniil Yurchenko* *Beijing Jiaotong University*
10:45–11:00	**SS14**	*Regular Oral*	Random vibration analysis of galloping piezoelectric energy harvester in colored-noise turbulence inflow *Jingyan Wang, Hongjun Xiang, Chuqi Wu, Hao Jing* *Beijing Jiaotong University*
11:00–11:15	**SS14**	*Regular Oral*	A Bridge-Free Dual-Branch Interface Circuit for Piezoelectric Energy Harvesting under Low-Level Vibrations *Chuqi Wu, Hongjun Xiang, Jingyan Wang* *Beijing Jiaotong University*
11:15–11:30	**SS14**	*Regular Oral*	Near-Wall Galloping Piezoelectric Energy Harvesting in Railway Tunnels: Modeling and Preliminary Experimental Validation *Hao Jing, Hongjun Xiang* *Beijing Jiaotong University*
11:30–11:50	**SS17**	*Invited*	Femtosecond Laser Fabrication of Integrated Smart Devices for Hydrovoltaic Power Generation and Solar Regulation *Chao Chen, Long Zhang, Jianhan Wang* *Hefei University of Technology*
11:50–12:10	**SS17**	Invited	Regulation of Kinetic Photovoltage at Silicon Water Interfaces for Water Energy Harvesting *Jidong Li* *Nanjing University of Aeronautics and Astronautics*

Venue #8

Time	Index	Type	Details
12:10–12:30	**SS17**	*Invited*	Research on Band Gap Optimization of Locally Resonant Acoustic Metamaterials Based on Machine Learning *Jun Yin, Guanghui Xia* *Anhui Jianzhu University*
12:30–13:30	*Lunch*		
13:45–14:05	**SS17**	*Invited*	Controlled Droplet Dynamics for Energy Harvesting and Sensing *Huanxi Zheng* *Dalian University of Technology*
14:05–14:25	**SS17**	*Invited*	Structural Design and Electrical Optimization of Cement-based Solid/Liquid triboelectric Nanogenerators for Marine Infrastructure Protection *Xiantong Yan, Zhangxiu Liu* *Shenzhen University*
14:25–14:40	**SS17**	*Regular Oral*	Impact-release enhanced piezoelectric wave energy harvester for self-powered water quality monitoring *Renwen Liu, Han Zhou, Wentao Yu, Kongshan Li, Xin Xu, Chengliang Pan* *Hefei University of Technology*
14:40–14:55	**SS17**	*Regular Oral*	A Wireless Droplet Nanogenerator and Self-powered Sensor *Dong Wan, Yunlong Zi* *The Hong Kong University of Science and Technology (Guangzhou)*
14:55–15:10	**SS17**	*Regular Oral*	Modeling droplet-driven piezoelectric harvesters using the SPH method *Guannan Hao* *Qingdao University*

Venue #8

Time	Index	Type	Details
15:10–15:25	**SS22**	*Regular Oral*	Tethered payload deployment/ retrieval mechanism with clutch function *Dianbing Yi, Ti Chen* *Nanjing University of Aeronautics and Astronautics*
15:25–15:40	**SS22**	*Regular Oral*	Collision detection and motion planning of Rubik's snake-inspired modular reconfigurable robots *Xinyi Mo, Yuxuan Yuan, Kexin Cheng* *Nanjing University of Aeronautics and Astronautics*
15:45–16:00	*Coffee Break*		
16:00–16:15	**SS24**	*Regular Oral*	Compact Adipocyte-like Connection Structure with Heavy-load ability for battery pack vibration isolation *Tian-Yu Zhao, Ge Yan, Wen-Hao Qi, Fan-Chi Zeng* *Shanghai Jiao Tong University*
16:15–16:30	**SS24**	*Regular Oral*	Stepless Load-Adjustable Magnetic Platform for Low-Frequency Vibration Isolation *Fanchi Zeng, Tianyu Zhao, Wenhao Qi, Ge Yan* *Shanghai Jiao Tong University*
16:30–16:45	**SS24**	*Regular Oral*	A Tri-Magnet and Fixed-Guided Beam Quasi-Zero-Stiffness Isolator for Variable-Payload Broadband Isolation *Kangkang Guo, Junhai He, Lihua Tang, Shuqian Cao, Peihan Ren* *Harbin University of Science and Technology*

Poster Session

Index	Title	First Author	Affiliation
1	Porosity-Engineered BCZT Films for Ultrasound-Powered Bioelectronics	*Zifan Li*	*The Hong Kong University of Science and Technology (Guangzhou)*
2	Novel 3-3 piezoelectric composite with TPMS framework	*Yuxin Chen*	*The Hong Kong University of Science and Technology (Guangzhou)*
3	Additive manufacturing of PZT based on porous hydrogel for ultrasonic transducers	*Ruihua Liu*	*Sichuan University*
4	A Fully Self-Powered Digital Wearable System for the Auxiliary Treatment of Plantar Fasciitis	*Biao Wang*	*Sichuan University*
5	Design and Performance Analysis of a Piezoelectric–Electromagnetic Hybrid Wind Energy Harvester Integrated into Railway Wind Barriers	*Yanzi Fu*	*Beijing Jiaotong University*
6	Piezoelectric-Electromagnetic Couplinged Wireless Energy-Data Transer System for Implanted Medical Devices	*Guoxu Wang*	*Beijing Institute of Technology*
7	Efficient harvesting of intermittent kinetic energy input via a mechanical-electrical integrated switching system	*Rui Zhong*	*University of Nottingham Ningbo China*
8	Modelling and performance analysis of a rotational energy harvester with complex piezoelectric beam	*Lei Zhang*	*Jiuquan Iron and Steel (Group) Co., Ltd*
9	Non-Contact Magnetic Frequency Up-Conversion for Low-Speed Wind Energy Harvesting and Self-Powered Sensing	*Yihao Li*	*The University of Auckland*

Poster Session

Index	Title	First Author	Affiliation
10	Mixed H2/H∞ state feedback-based control of simultaneous vibration suppression and energy harvesting in vehicle suspension systems	*Zhongsheng Chen*	*Shandong Xiehe University*
11	Modeling and Analysis of a Novel Multistable Piezoelectric Energy Harvester with Synergistic Geometric and Magnetic Nonlinearities	*Wenke Chen*	*Lanzhou University of Technology*
12	A piezoelectric energy harvester with a dual-stage amplification mechanism for efficient vibration energy conversion	*Yifei Deng*	*Beijing Forestry University*
13	Bandwidth Broadening Characteristics of a Folded Double-Layer Piezoelectric Beam with Flexible Stoppers	*Zhihua Lei*	*Soochow University*
14	A Cam-Booster-Based Hybrid Wave Energy Harvester with Frequency Up-Conversion for Ultra-Low-Frequency Wave Energy Harvesting	*Wang Xiao*	*Soochow University*
15	Study on energy harvesting performance of flexible piezoelectric film under wake-induced vibration	*Derong Duan*	*University of Jinan*
16	Wearable impact-type frequency up-conversion piezoelectric energy harvester based on V-shaped cantilever beam	*Han Zhou*	*Hefei University of Technology*
17	Battery-free AC Power Estimation via Loosely Coupled Current Transformer and Wireless Transmission Intermittency	*Jieying Wei*	*ShanghaiTech University*
18	A Battery-free Thermoelectric Tag for Information Encoder and Temperature Difference Estimation via Intermittent Optical Blinking	*Yaohua Feng*	*ShanghaiTech University*

Topic

Vibration and Energy Harvesting: Theory, Technologies, and Applications

Dear Colleagues,

This Topic seeks to compile a collection of scientific contributions presented at VEH 2026—The 7th International Conference on Vibration and Energy Harvesting Applications, which will be held from 3 to 6 July 2026 in Guangzhou, China.

Vibration energy harvesting technology is an interdisciplinary field and has garnered significant attention from both academia and industry toward green and renewable energy and self-powered systems over the past decade. VEH 2026 aims to provide an international platform for researchers from all over the world to exchange ideas and advance the development of related technologies. We welcome all innovative research studies pertaining to vibration analysis, energy harvesting, their applications, and results on mechanical design, optimization, dynamics, power management circuits and systems, MEMS technology, nanotechnology, new materials, self-powered IoT applications, and other related areas.

Eligible papers include, but are not limited to, extended versions of accepted conference papers in VEH 2026. Submissions from those not associated with this conference but that address themes focusing on related topics are also welcome.

Topic Editors

Dr. Yunlong Zi
The Hong Kong University of Science and Technology (Guangzhou)
Dr. Guobiao Hu
The Hong Kong University of Science and Technology (Guangzhou)
Dr. Junrui Liang
ShanghaiTech University
Dr. Junlei Wang
Zhengzhou University

Deadline

Abstract Submission: 31 March 2027

Manuscript Submission: 30 June 2027

Participating Journals

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Vibration

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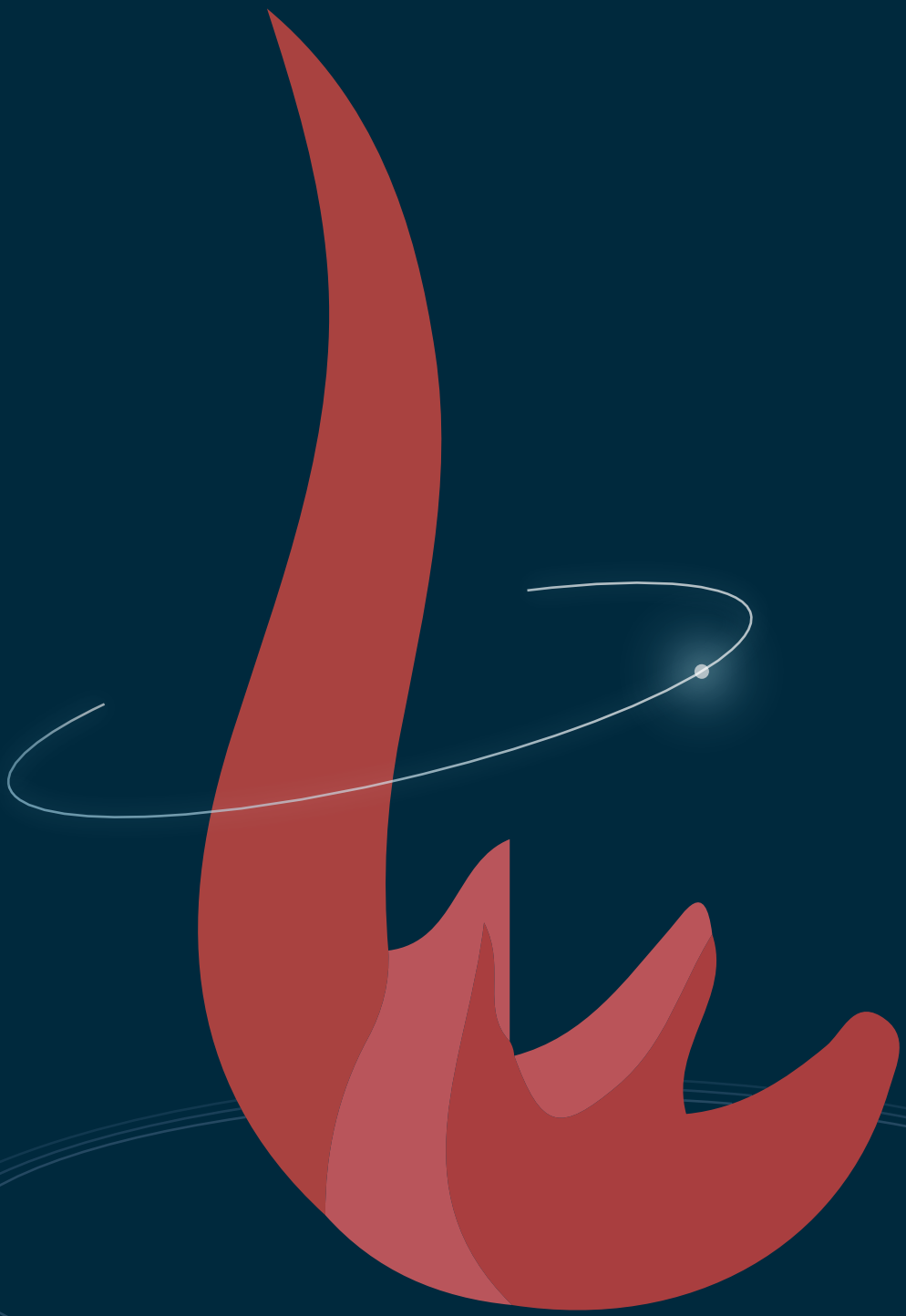
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
topic@mdpi.com

mdpi.com/topics

Notebook

The 7th International Conference on Vibration and Energy Harvesting Applications



香港科技大學(廣州)
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANGZHOU)

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