

Technical Sessions
(TS-[Room][Session No.]-[Talk No.])

	September 28 (Monday)			September 29 (Tuesday)			September 30 (Wednesday)	
	Hall (Room A)	Seminar Room (Room B)		Hall (Room A)	Seminar Room (Room B)		Hall (Room A)	Seminar Room (Room B)
10:00	Opening Session at Hall (Room A)		TS-A2-1	TS-B2-1	TS-A4-1	TS-B4-1		
10:10								
10:20								
10:30	TS-A1-1	TS-B1-1	TS-A2-2	TS-B2-2	TS-A4-2	TS-B4-2		
10:40								
10:50								
11:00	TS-A1-2	TS-B1-2	TS-A2-3	TS-B2-3	TS-A4-3	TS-B4-3		
11:10								
11:20								
11:30	TS-A1-3	TS-B1-3			TS-A4-4	TS-B4-4		
11:40								
11:50								
12:00	Lunch		Lunch		Lunch			
12:10	60min		90min		60min			
12:20								
12:30								
12:40								
12:50								
13:00	Keynote - Prof. Jens Kirchner		Keynote - Prof. Masayuki Hirata		TS-A5-1	TS-B5-1		
13:10	<i>Molecular Communication and the</i>		<i>Functional Reconstruction Using</i>					
13:20	<i>Internet of Bio-Nano-Things</i>		<i>Wireless Implantable Brain-machine</i>		TS-A5-2	TS-B5-2		
13:30			<i>Interfaces with ICT</i>					
13:40								
13:50								
14:00	at Hall (Room A)		at Hall (Room A)		TS-A5-3	TS-B5-3		
14:10								
14:20								
14:30	Break		Break		TS-A5-4			
14:40								
14:50	Special Session -		TS-A3-1 Invited		Break			
15:00	<i>Dependable Wireless BAN New</i>							
15:10	<i>Standard</i>							
15:20	<i>IEEE802.15.6-2026 and BAN</i>		TS-A3-2	TS-B3-1	TS-A6-1	TS-B6-1		
15:30	<i>Applications</i>							
15:40	Session Organizer: Prof. Ryuji Kohno							
15:50			TS-A3-3	TS-B3-2	TS-A6-2	TS-B6-2		
16:00	at Hall (Room A)							
16:10								
16:20			TS-A3-4	TS-B3-3	TS-A6-3	TS-B6-3		
16:30								
16:40								
16:50					Closing Session			
17:00					30 min			
17:10								
17:20								
17:30								
17:40								
17:50								
18:00	Welcome Reception		Banquete					
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ISMICT 2026 Technical Program								
September 28th (Monday)								
Day	Time Slot	Session Name	Timeslot Code	Paper ID	Paper Title	Authors	Room	
Technical Session A1								
28th (Monday)	10:30 – 11:00	Technical Session A1	TS-A1-1	1571315467	Floor-Vibration-Based Vertical Jump Height Estimation Through a Smartphone Sensor	Puttipong Leakkaw (Thailand National Sports University, Samut Sakhon Campus, Thailand)	Hall (Room A)	
28th (Monday)	11:00 – 11:30	Technical Session A1	TS-A1-2	1571316776	A Study on Blood Pressure Estimation Using an Optical Pulse Wave Sensor	Shugo Matsuzawa, Takahiro Ito and Hirokazu Tanaka (Hiroshima City University, Japan)	Hall (Room A)	
28th (Monday)	11:30 – 12:00	Technical Session A1	TS-A1-3	1571315250	Experimental Evaluation of WLAN CSI-Based Device-Free Indoor Localization	Mairu Sakamoto (Nagoya Institute of Technology, Japan); Jaakko Hyry (Osaka Metropolitan University, Japan & Graduate School of Informatics, Japan); Yujiro Kushiyaama (Osaka Metropolitan University, Japan); Takumi Kobayashi (Osaka Metropolitan University, Japan & YRP International Alliance Institute, Japan); Manato Fujimoto, Shingo Ata and Daisuke Anzai (Osaka Metropolitan University, Japan)	Hall (Room A)	
Technical Session B1								
28th (Monday)	10:30 – 11:00	Technical Session B1	TS-B1-1	1571316542	A Lightweight Cloud-Assisted Wearable Framework for Continuous Arrhythmia Monitoring Using Beat-Interval Statistical Features	Stefano Caputo and Giacomo Spoti (University of Florence, Italy); Sara Jayousi (PIN University of Florence, Italy); Sara Guarducci (University of Florence, Italy); Blesson Ezra, Scarlett Shaw, Roman Rocha and Paul O'Brien (Elarus, United Kingdom (Great Britain)); Lorenzo Mucchi (University of Florence, Italy)	Seminar Room (Room B)	
28th (Monday)	11:00 – 11:30	Technical Session B1	TS-B1-2	1571314183	Postural Control Assessment During Daily Activities Using Wearable Sensor Insoles in Incomplete Spinal Cord Injury: A Proof-of-Concept Study	Sara Guarducci and Giulia Panconi (University of Florence, Italy); Sara Jayousi (PIN University of Florence, Italy); Stefano Caputo, Riccardo Bravi and Lorenzo Mucchi (University of Florence, Italy)	Seminar Room (Room B)	
28th (Monday)	11:30 – 12:00	Technical Session B1	TS-B1-3	1571315977	Explainable Estimation of Clinical Pathway Branching Factors from Multi-Institutional Electronic Medical Records	Miwa Sugitani, Ryosuke Matsuo, Tomoyoshi Yamazaki, Kenji Araki and Masato Oguchi (Ochanomizu University, Japan); Yokota Haruo (Josai University, Japan); Hieu Hanh Le (Ochanomizu University, Japan)	Seminar Room (Room B)	
Keynote Session 1								
28th (Monday)	13:00 – 14:30	Keynote Session 1	KS-1	Molecular Communication and the Internet of Bio-Nano-Things			Prof. Dr. Jens Kirchner	Hall (Room A)
Special Organized Session - Dependable Wireless BAN New Standard IEEE802.15.6-2026 and BAN Applications								
28th (Monday)	14:50 – 15:15	Special Organized Session - Dependable Wireless BAN New Standard IEEE802.15.6-2026 and BAN Applications	OS-1-1	1571316832	PHY and MAC Technologies and Applications of Dependable BAN Standard IEEE802.15.6-2026 and BAN/6G/AI Platform	Ryuji Kohno (YRP International Alliance Institute, Japan & Yokohama National University, Japan); Marco Hernandez (University of Oulu, Finland); Daisuke Anzai (Osaka Metropolitan University, Japan); Takumi Kobayashi (Osaka Metropolitan University, Japan & YRP International Alliance Institute, Japan); Seong-Soon Joo (KPST, Korea (South)); Kento Takabayashi (Toyo University, Japan)	Hall (Room A)	
28th (Monday)	14:15 – 15:40	Special Organized Session - Dependable Wireless BAN New Standard IEEE802.15.6-2026 and BAN Applications	OS-1-2	1571314630	Research and Development of In-Vehicle Wire Harness-less Systems Based on UWB Radio Technology	Makoto Okuhara (DENSO TEN Ltd., Japan); Hiroaki Yoshitake and Tetsuya Nomura (DENSO TEN Ltd., Japan)	Hall (Room A)	
28th (Monday)	15:40 – 16:05	Special Organized Session - Dependable Wireless BAN New Standard IEEE802.15.6-2026 and BAN Applications	OS-1-3	1571314683	North Fast Asleep Project: Visualizing the Sleep and Mental Health of 1,000 Sapporo Citizens Using a Virtual Vital Sign Sensor "MIRUWS M4"	Shigenobu Minami; Masafumi Tamura; Toshio Ikeda; Takuji Suzuki (MIRUWS Co. Ltd., Japan)	Hall (Room A)	
28th (Monday)	16:05 – 16:30	Special Organized Session - Dependable Wireless BAN New Standard IEEE802.15.6-2026 and BAN Applications	OS-1-4	1571318272	Development and Potential Application of a BAN Insole for Rehabilitation Support and Daily-Life Monitoring	Yumi Mori (Seijo University, Japan); Yuzo Imabori (Leimac Ltd., Japan); Hisae Hayashi (Aichi Shukutoku University, Japan); Kotaro Yamasue (Yokohama City University, Japan); Ryuji Kohno (YRP International Alliance Institute, Japan & Yokohama National University, Japan)	Hall (Room A)	
28th (Monday)	16:30 – 16:55	Special Organized Session - Dependable Wireless BAN New Standard IEEE802.15.6-2026 and BAN Applications	OS1-1-5	1571317806	Prediction of Sleep Stage during Naps by Unconstrained Piezoelectric Sensor SUIZINE	Masato Kanegae; Yoshihiko Mizukami; Ichiro Kimura; Yuji Tateizumi; Kyuchi Nizeki (Healthsensing Co., Japan); Ryuji Kohno (YRP International Alliance Institute, Japan & Yokohama National University, Japan)	Hall (Room A)	

September 29th (Tuesday)								
Day	Time Slot	Session Name	Timeslot Code	Paper ID	Paper Title	Authors	Room	
Technical Session A2								
29th (Tuesday)	10:00 – 10:30	Technical Session A2	TS-A2-1	1571316380	Coupler-Skin Interfacial Buffer Effects on SAR-Limited Received Power in Capacitive Coupling WPT for Implantable Devices	Miyu Kodama and Dairoku Muramatsu (The University of Electro-Communications, Japan)	Hall (Room A)	
29th (Tuesday)	10:30 – 11:00	Technical Session A2	TS-A2-2	1571316394	Backscatter Communication for ICM Using Combined Split-Ring Resonator and On-Body Ring	Yukino Sasaki and Dairoku Muramatsu (The University of Electro-Communications, Japan)	Hall (Room A)	
29th (Tuesday)	11:00 – 11:30	Technical Session A2	TS-A2-3	1571316480	ICNIRP-Compliant Wearable Galvanic-Coupling Hardware for Safe Human Body Communication	Giacomo Borghini and Stefano Caputo (University of Florence, Italy); Anna Marucci (University of Pavia, Italy & Policlinico San Matteo, Pavia, Italy); Lorenzo Mucchi (University of Florence, Italy); Pietro Savazzi and Anna Vizzello (University of Pavia, Italy)	Hall (Room A)	
Technical Session B2								
29th (Tuesday)	10:00 – 10:30	Technical Session B2	TS-B2-1	1571315260	Three-dimensional Accuracy on Magnetic Field-Based In-Body Localization with Multiple Directions	Yuki Matsuhira (Nagoya Institute of Technology, Japan); Jaakko Hyry (Osaka Metropolitan University, Japan & Graduate School of Informatics, Japan); Takumi Kobayashi (Osaka Metropolitan University, Japan & YRP International Alliance Institute, Japan); Daisuke Anzai (Osaka Metropolitan University, Japan)	Seminar Room (Room B)	
29th (Tuesday)	10:30 – 11:00	Technical Session B2	TS-B2-2	1571312782	An Investigation of Effective Feature Sets for Machine Learning-Based Implantable Device Localization	Takumi Kawamura and Takii Egusa (Osaka Metropolitan University, Japan); Takumi Kobayashi (Osaka Metropolitan University, Japan & YRP International Alliance Institute, Japan); Jaakko Hyry (Osaka Metropolitan University, Japan & Graduate School of Informatics, Japan); Yujiro Kushiyama, Shingo Ata, Daisuke Anzai and Manato Fujimoto (Osaka Metropolitan University, Japan)	Seminar Room (Room B)	
29th (Tuesday)	11:00 – 11:30	Technical Session B2	TS-B2-3	1571316220	Evaluation of Heart Rate and LF/HF Ratio Calculated from PPG-Derived IBIs Using ECG-Derived IBIs as a Reference	Atsuo Nagai, Shinya Yanagita and Takahiko Yamamoto (Tokyo University of Science, Japan)	Seminar Room (Room B)	
Keynote Session 1								
29th (Tuesday)	13:00 – 14:30	Keynote Session 1	KS-2	Functional Reconstruction Using Wireless Implantable Brain-machine Interfaces with ICT			Prof. Masayuki Hirata	Hall (Room A)
Technical Session A3								
29th (Tuesday)	14:50 – 15:20	Technical Session A3	TS-A3-1	1571321153	Population-Level and Individual-Level Intelligence: A Hybrid Framework for Wearable ICT in Health and Safety Management	Ken Kiyono and Syarifah Nabilah Syed Taha (The University of Osaka, Japan)	Hall (Room A)	
29th (Tuesday)	15:20 – 15:50	Technical Session A3	TS-A3-2	1571321154	A Reliability Benchmark and Personal Profile for Nocturnal Glucose and Heart-Rate Monitoring Beyond Time-in-Range	Li Li (The University of Osaka & IntaSect Communications, Inc., Japan); Syarifah Nabilah Syed Taha (The University of Osaka, Japan); Yoshiyuki Nishinaka (Intasect Communications, Inc., Japan); Yufeng Tan (Intasect communications Inc, Japan); Ken Kiyono (The University of Osaka, Japan)	Hall (Room A)	
29th (Tuesday)	15:50 – 16:20	Technical Session A3	TS-A3-3	1571321222	Population-Based Real-World Evidence on Occupational Health Risks Using Wearable Devices	Kyosuke Kato and Ken Kiyono (The University of Osaka, Japan)	Hall (Room A)	
29th (Tuesday)	16:20 – 16:50	Technical Session A3	TS-A3-4	1571315666	Motion Artifact Removal in Wearable Biomedical Sensors Using Fast Independent Component Analysis and Adaptive Filtering	Aoi Nohiro and Tadao Nakagawa (Tottori University, Japan)	Hall (Room A)	
Technical Session B3								
29th (Tuesday)	15:20 – 15:50	Technical Session B3	TS-B3-1	1571315329	Evaluation of Propagation and Communication Characteristics for Implantable Devices in Millimeter-Wave and FR3 Bands	Shota Koyama (Nagoya Institute of Technology, Japan); Jaakko Hyry (Osaka Metropolitan University, Japan & Graduate School of Informatics, Japan); Yujiro Kushiya (Osaka Metropolitan University, Japan); Takumi Kobayashi (Osaka Metropolitan University, Japan & YRP International Alliance Institute, Japan); Daisuke Anzai (Osaka Metropolitan University, Japan)	Seminar Room (Room B)	
29th (Tuesday)	15:50 – 16:20	Technical Session B3	TS-B3-2	1571315247	A Simplified Estimation Method of Local 10g Averaged SAR for Multiple IoT Devices in Three-Dimensional Space	Hayato Furuya (Nagoya Institute of Technology, Japan); Yujiro Kushiyama (Osaka Metropolitan University, Japan); Yuto Shimizu and Tomoaki Nagaoka (National Institute of Information and Communications Technology, Japan); Daisuke Anzai (Osaka Metropolitan University, Japan)	Seminar Room (Room B)	
29th (Tuesday)	16:20 – 16:50	Technical Session B3	TS-B3-3	1571316931	Harmonic-Based LTspice-COMSOL Coupling for Implantable Wireless Power Transfer	Giovanni Nunzio Scirocco, Elisabetta Marini and Maurizio Magarini (Politecnico di Milano, Italy)	Seminar Room (Room B)	

September 30th (Wednesday)							
Day	Time Slot	Session Name	Timeslot Code	Paper ID	Paper Title	Authors	Room
Technical Session A4							
30th (Wednesday)	10:00 – 10:30	Technical Session A4	TS-A4-1	1571315298	A Study on Privacy-Preserving 3D Human Pose Estimation for Health Monitoring Using a Compact mm-Wave Sensor and Point Cloud Upsampling	Sora Nagayama and Takeshi Toda (Nihon University, Japan)	Hall (Room A)
30th (Wednesday)	10:30 – 11:00	Technical Session A4	TS-A4-2	1571315425	A Study of Non-Contact Heart Rate Estimation with CNN-Based Deep Learning for A Low-Power 60 GHz MIMO-FMCW Sensor under Low SNR Conditions	Yuto Imada and Takeshi Toda (Nihon University, Japan)	Hall (Room A)
30th (Wednesday)	11:00 – 11:30	Technical Session A4	TS-A4-3	1571315121	A Study of Non-Contact Heart Rate Estimation Using 2D-ResNet with Range Profile Matrix Input from a 60-GHz Pulse Radar Sensor	Taiyo Takahashi and Takeshi Toda (Nihon University, Japan)	Hall (Room A)
30th (Wednesday)	11:30 – 12:00	Technical Session A4	TS-A4-4	1571315428	A Study on Non-Contact Blood Pressure Estimation from mm-Wave Sensor Signals Using CycleGAN Based PPG-Like Waveform Generation	Takahiro Ishimoto and Takeshi Toda (Nihon University, Japan)	Hall (Room A)
Technical Session B4							
30th (Wednesday)	10:00 – 10:30	Technical Session B4	TS-B4-1	1571311438	Deep Learning-Based Vascular Region Estimation from Ultrasound Images	Kai Ishida (Shonan Institute of Technology, Japan)	Seminar Room (Room B)
30th (Wednesday)	10:30 – 11:00	Technical Session B4	TS-B4-2	1571302852	Transfer Learning-Based Renal Ultrasound Classification Towards CAKUT Screening: A Preliminary Study Using ResNet-50	Alif Ahmed, Hasan Md Mehedi and Eisuke Hanada (Saga University, Japan)	Seminar Room (Room B)
30th (Wednesday)	11:00 – 11:30	Technical Session B4	TS-B4-3	1571299293	A Real-Time Mobile Health Alert System for Emergency Response and Location-Based Rescue Coordination	Rahman Mohammad Abdur and Eisuke Hanada (Saga University, Japan)	Seminar Room (Room B)
30th (Wednesday)	11:30 – 12:00	Technical Session B4	TS-B4-4	1571307310	Traffic-Aware Routing and Real-Time Clinical Synchronisation for Mobile Emergency Medical Services in Resource-Constrained Environments	Das Bishal, Hasan Md Mehedi and Eisuke Hanada (Saga University, Japan)	Seminar Room (Room B)
Technical Session A5							
30th (Wednesday)	13:00 – 13:30	Technical Session A5	TS-A5-1	1571312759	Integration of SmartBAN and Beyond-5G Radio Access Based on 3GPP Personal IoT Networks	Konstantin Mikhaylov, Marco Hernandez, Matti Hämmäläinen and Jari Iinatti (University of Oulu, Finland)	Hall (Room A)
30th (Wednesday)	13:30 – 14:00	Technical Session A5	TS-A5-2	1571314060	Towards Resilience: Slice-Driven Orchestration of Mobile IoT in 6G-Edge-Continuum	Muhammad Zeeshan, Hafiz Faheem Shahid and Erkki Harjula (University of Oulu, Finland)	Hall (Room A)
30th (Wednesday)	14:00 – 14:30	Technical Session A5	TS-A5-3	1571315301	On Specification of the Requirements for the Radio Oscillator in SmartBAN	Konstantin Mikhaylov and Matti Hämmäläinen (University of Oulu, Finland); Takahiro Ito and Hirokazu Tanaka (Hiroshima City University, Japan); Jari Iinatti (University of Oulu, Finland)	Hall (Room A)
30th (Wednesday)	14:30 – 15:00	Technical Session A5	TS-A5-4	1571317409	Is Non-Contact Optical Wireless Power Delivery Through Tissue Feasible for Implantable Medical Devices?	Syfaul Fuada (University of Oulu, Finland & Universitas Pendidikan Indonesia, Indonesia); Mariella Särestöniemi (University of Oulu & Research Unit of Health Sciences and Technology and Center for Wireless Communication, Finland); Matti Hämmäläinen and Marcos Kätz (University of Oulu, Finland)	Hall (Room A)
Technical Session B5							
30th (Wednesday)	13:00 – 13:30	Technical Session B5	TS-B5-1	1571316796	Security Evaluation of Wireless Cardiac Implants under Multilayer DoS Attacks	Bhupender Malhan (Indian Institute of Technology Kharagpur, India); Anisha Mitra (Indian Institute of Technology, Kharagpur, India); Amrita Bose and Dipanwita Roy Chowdhury (Indian Institute of Technology Kharagpur, India)	Seminar Room (Room B)
30th (Wednesday)	13:30 – 14:00	Technical Session B5	TS-B5-2	1571312167	Measurement of Antennas for ITE Devices Under Actual Usage Conditions	Reo Shimajiri (Kanazawa Institute of Technology, Japan); Ryoa Kishi (Yokowo Co., Ltd., Japan); Toru Fukasawa (Kanazawa Institute of Technology, Japan)	Seminar Room (Room B)
30th (Wednesday)	14:00 – 14:30	Technical Session B5	TS-B5-3	1571317767	Feasibility of a Body Area Network System Integrating Plantar Pressure and Lower-Limb Muscle Activity for Gait Monitoring	Hisae Hayashi (Aichi Shukutoku University, Japan); Takumi Kobayashi (Osaka Metropolitan University, Japan & YRP International Alliance Institute, Japan); Naruaki Kiyota (Nagoya Kyouritsu Hospital, Japan); Yuzo Imabori (Leimac Ltd., Japan); Ryuji Kohno (YRP International Alliance Institute, Japan & Yokohama National University, Japan)	Seminar Room (Room B)
Technical Session A6							
30th (Wednesday)	15:20 – 15:50	Technical Session A6	TS-A6-1	1571306796	Real-Time RFID Tracking Simulation for Hospital Resource Management: A 3D Unity Implementation with Dynamic Surge Response and VR Readiness	Hasan Md Mehedi and Eisuke Hanada (Saga University, Japan)	Hall (Room A)
30th (Wednesday)	15:50 – 16:20	Technical Session A6	TS-A6-2	1571299594	A Web Accessibility Evaluation Tool That Takes into Account the Needs of Persons with Cataracts or Colour Vision Deficiency	Yudai Sugano (Ad-Sol Nissin Corporation, Japan); Eisuke Hanada (Saga University, Japan)	Hall (Room A)
30th (Wednesday)	16:20 – 16:50	Technical Session A6	TS-A6-3	1571316188	LiteAiNet: An Explainable Lightweight Knowledge Distillation Framework for Alzheimer's Disease Detection from Brain MRI	Tithee Chakma Mama and Eisuke Hanada (Saga University, Japan)	Hall (Room A)
Technical Session B6							
30th (Wednesday)	15:20 – 15:50	Technical Session B6	TS-B6-1	1571316047	Planar-Shaped Magnetic Field Synthesis Using Phased Arrays for Implantable Device Localization	Yuto Kishimoto (Nagoya Institute of Technology, Japan); Keita Saku (National Cerebral and Cardiovascular Center, Japan); Daisuke Anzai (Osaka Metropolitan University, Japan)	Seminar Room (Room B)
30th (Wednesday)	15:50 – 16:20	Technical Session B6	TS-B6-2	1571316616	Estimation of Lung Function Parameters Using Regression Models Based on Internal Pressure of Fukumodoshii Party Blowers	Kazuto Yamada, Tetsuo Tsujioka, Tomohito Takubo, Hitoshi Watanabe, Hisayo Yokoyama and Haruka Kawabata (Osaka Metropolitan University, Japan); Yoshihiro Yamashina (Aino University, Japan)	Seminar Room (Room B)
30th (Wednesday)	16:20 – 16:50	Technical Session B6	TS-B6-3	1571319692	Evaluation of Standardized Terminology Usage for IMDRF Convertibility in Japanese Ventilator Malfunction Reports	Kiyotaka Fujii (Kitasato University, Japan); Kazumasa Kishimoto (Kyoto University Hospital, Japan); Kai Ishida (Shonan Institute of Technology, Japan); Masami Fujii and Satoshi Kohira (Kitasato University, Japan)	Seminar Room (Room B)