

July 2 (Sun.)											
Time	Room A (Ramada Ballroom 1, 2F)	Room B (Ramada Ballroom 2, 2F)	Room C (Ramada Ballroom 3, 2F)	Room D (Ramada Ballroom 4, 2F)	Room E (Tamma Hall, 8F)	Room F (Halla Hall, 8F)	Room G (Ora Hall, 8F)	Room H (Mara, 2F)	Room I (Udo, 2F)	Room J (Biyang, 2F)	Convention Lobby (2F)
09:30-13:00	NTC AdCom Meeting (Ara Hall)										
13:00-14:00	NTC AdCom Lunch										
14:00-16:00	Registration (Convention Lobby)										
16:00-18:00	NTC AdCom Meeting (Ara Hall)										
July 3 (Mon.)											
Time	Room A (Ramada Ballroom 1, 2F)	Room B (Ramada Ballroom 2, 2F)	Room C (Ramada Ballroom 3, 2F)	Room D (Ramada Ballroom 4, 2F)	Room E (Tamma Hall, 8F)	Room F (Halla Hall, 8F)	Room G (Ora Hall, 8F)	Room H (Mara, 2F)	Room I (Udo, 2F)	Room J (Biyang, 2F)	Convention Lobby (2F)
08:00-08:20	Opening Ceremony (Ramada Ballroom 1, 2F)										
08:20-09:05	[Plenary Talk 1] Photonics at Sub-wave Length Scale Zhang, Xiang (Univ. of Hong Kong, China)										
09:05-09:50	[Plenary Talk 2] Designed Nanoscale Materials through DNA-Programmable Assembly Gang, Oleg (Columbia Univ., USA)										
09:50-10:10	Coffee Break										
10:10-10:40	[MoDT1] Keynote Session: Lombardi, Fabrizio Northeastern Univ., USA	[MoDT2] Keynote Session: Zhu, Yong NC State Univ., USA	[MoDT3] Keynote Session: Hu, Weida Shanghai Inst. of Tech. Phys., China	[MoDT4] Keynote Session: Lee, Gawon Chungnam Univ., Korea							
10:40-12:40	[MoET1] Invited Session: Low Temp. Physics Modeling for Classical & Quantum Devices 1	[MoET2] Invited Session: Nanotechnology for Soft Electronics 1	[MoET3] Invited Session: Nanoscale Photodetectors & Intelligent Perceptions 1	[MoET4] Invited Session: 2D Nanomaterials & Their Innovative Nano-electronics	[MoET5] Invited Session: Materials and Devices for Biomedical Applications	[MoET6] Invited Session: Nano-biomaterials & Nano- biosensors in Biomedical Appl.	[MoET7] Oral Session: "Best Paper Competition Session"				
12:40-14:00	Lunch										
14:00-16:00	[MoGT1] Invited Session: Low Temp. Physics Modeling for Classical & Quantum Devices 2	[MoGT2] Invited Session: Nanotechnology for Soft Electronics 2	[MoGT3] Invited Session: Nanoscale Photodetectors & Intelligent Perceptions 2	[MoGT4] Invited Session: Nano/Micro Approaches for Biomedical Engineering	[MoGT5] Invited Session: Latest Advances in Magnetic Nanotechnology 1	[MoGT6] Invited Session: Cutting-Edge of Phonon & Electron Control for Nano-Device	[MoGT7] Invited Session: Nano Devices & Their Applications 1				
16:00-16:20	Coffee Break										
16:20-17:20	[MoIT1] Oral Session: Quantum, Neuronorphic & Unconventional Computing 1	[MoIT2] Invited Session: Nanoscale Sensing for Biological & Biomedical Appl.	[MoIT3] Oral Session: Nano-optics, Nanophotonics & Nano-optoelectronics 1	[MoIT4] Oral Session: Nanorobotics & Nanomaterials Manufacturing	[MoIT5] Oral Session: Nanobiomedicine 1	[MoIT6] Oral Session: Spintronics 1	[MoIT7] Invited Session: Nano Devices & Their Applications 2	[MoIT8] Oral Session: Nano-metrology & Characterization	[MoIT9] Oral Session: Nanomaterials 1	[MoIT10] Oral Session: Modeling & Simulation 1	[MoIT11] Poster Session: Poster Session 1
17:20-18:20	[MoJT1] Oral Session: Quantum, Neuronorphic & Unconventional Computing 2	[MoJT2] Oral Session: Nanoelectronics 1	[MoJT3] Oral Session: Nanosensors & Nanoactuators 1	[MoJT4] Oral Session: Nanofabrication 1	[MoJT5] Oral Session: Nano-energy, Environment & Safety 1	[MoJT6] Oral Session: Nano-acoustic Devices, Processes & Materials 1	[MoJT7] Oral Session: AI for Nanotechnology	[MoJT8] Oral Session: Nanomaterials 2	[MoJT9] Oral Session: Nanomaterials 3		
18:30-20:00	Welcome Reception (Ramada Ballroom 1, 2F)										
July 4 (Tue.)											
Time	Room A (Ramada Ballroom 1, 2F)	Room B (Ramada Ballroom 2, 2F)	Room C (Ramada Ballroom 3, 2F)	Room D (Ramada Ballroom 4, 2F)	Room E (Tamma Hall, 8F)	Room F (Halla Hall, 8F)	Room G (Ora Hall, 8F)	Room H (Mara, 2F)	Room I (Udo, 2F)	Room J (Biyang, 2F)	Convention Lobby (2F)
08:30-09:15	[Plenary Talk 3] Intracellular Manipulation & Measurement: Science & Applications Sun, Yu (Univ. of Toronto, Canada)										
09:15-09:35	Coffee Break										
09:35-10:05	[TuDT1] Keynote Session: Jarivwala, Deep Univ. of Pennsylvania, USA	[TuDT2] Keynote Session: Samukawa, Seiji NYMCT Univ., Taiwan	[TuDT3] Keynote Session: Xu, Sheng Univ. of California at San Diego, USA	[TuDT4] Keynote Session: Ye, Winnie Carleton Univ., Canada							
10:05-11:45	[TuET1] Invited Session: Workshop on Nanotechnology for Computing 1	[TuET2] Invited Session: Nanotechnology for Soft Electronics 3	[TuET3] Invited Session: Nano-bio-microfluidic Platforms in Clinical & Biomedical Applications	[TuET4] Invited Session: Recent Advances in Micro-NanoRobotics	[TuET5] Invited Session: Spintronic Phenomena in Topological & 2D Materials	[TuET6] Invited Session: First Principles Modeling & Simulation of Plasma Processes 1					
11:50-13:00	Lunch										
13:00-13:45	[Plenary Talk 4] Van Der Waals Integration Beyond 2D Materials: Boundless Opportunities at Bondless Boundaries Duan, Xiangfeng (Univ. of California at Los Angeles, USA)										
14:00-16:00	[TuGT1] Invited Session: Workshop on Nanotechnology for Computing 2	[TuGT2] Invited Session: Nanotechnology for Soft Electronics 4	[TuGT3] Invited Session: Nanoscale Photodetectors & Intelligent Perceptions 3	[TuGT4] Invited Session: Advanced Nanofabrication Technologies	[TuGT5] Invited Session: Latest Advances in Magnetic Nanotechnology 2	[TuGT6] Invited Session: First Principles Modeling & Simulation of Plasma Processes 2					
16:00-16:20	Coffee Break										
16:20-17:20	[TuIT1] Invited Session: Workshop on Nanotechnology for Computing 3	[TuIT2] Oral Session: Nanoelectronics 2	[TuIT3] Oral Session: Nano-optics, Nanophotonics & Nano-optoelectronics 2	[TuIT4] Oral Session: Nanosensors & Nanoactuators 2	[TuIT5] Oral Session: Nanobiomedicine 2	[TuIT6] Oral Session: Spintronics 2	[TuIT7] Oral Session: Modeling & Simulation 2	[TuIT8] Oral Session: Nanomaterials 4	[TuIT9] Oral Session: Nanomaterials 5	[TuIT10] Oral Session: Nanomaterials 6	[TuIT11] Poster Session: Poster Session 2
17:20-18:20		[TuJT2] Oral Session: Nanoelectronics 3	[TuJT3] Oral Session: Nano-optics, Nanophotonics & Nano-optoelectronics 3	[TuJT4] Oral Session: Nanofabrication 2	[TuJT5] Oral Session: Nano-energy, Environment & Safety 2	[TuJT6] Oral Session: Nano-acoustic Devices, Processes & Materials 2	[TuJT7] Oral Session: Modeling & Simulation 3	[TuJT8] Oral Session: Nanomaterials 7	[TuJT9] Oral Session: Nanomaterials 8	[TuJT10] Oral Session: Nanomaterials 9	
19:00-21:30	Banquet (Ramada Ballroom 1 ~ 4, 2F)										
July 5 (Wed.)											
Time	Room E (Tamma Hall, 8F)	Room F (Ora Hall, 8F)	Room K (Ara Hall, 8F)	Room H (Mara, 2F)	Room I (Udo, 2F)	Room J (Biyang, 2F)					
08:30-09:15	[Plenary Talk 5] CMOS-Compatible Microscale & Nanoband Edge Electrodes for Electrochemical Sensing Applications Underwood, Ian (Univ. of Edinburgh, UK)										
09:15-09:45	[WeDT1] Keynote Session: Jackman, Richard B. Univ. College of London, UK	[WeDT2] Keynote Session: Keynote Talk 10: Xi, Ning Univ. of Hong Kong, China	[WeDT3] Keynote Session: Novosad, Valentine Argonne National Lab., USA	[WeDT4] Keynote Session: Lee, Moonjoo POSTECH, Korea							
09:45-10:05	Coffee Break										
10:05-11:45	[WeET1] Invited Session: New Directions & Challenges for Computing with Nanotechnology	[WeET2] Invited Session: Nanogenerators & Piezotronics	[WeET3] Invited Session: Nanomaterials Based Smart Wearables	[WeET4] Invited Session: IEEE NTC Women in Nanotechnology & Diversity Equity Inclusion (WINDEI): Interview & Panel Discussion with Leaders							
11:50-13:00	Lunch										
13:00-15:00	[WeGT1] Invited Session: Nano Energy & Self-powered Systems	[WeGT2] Invited Session: 2D & Nanomaterials	[WeGT3] Oral Session: Nanosensors & Nanoactuators 3	[WeGT4] Oral Session: Nanoelectronics 4							
15:00-16:00	[WeIT1] Oral Session: Nano-optics, Nanophotonics & Nano-optoelectronics 4	[WeIT2] Oral Session: Nanofabrication 3	[WeIT3] Oral Session: Nano-Energy, Environment & Safety 3	[WeIT4] Oral Session: Nanoelectronics 5	[WeIT5] Oral Session: Nanobiomedicine 3	[WeIT6] Oral Session: Modeling & Simulation 4					

# THE 23<sup>RD</sup> IEEE INTERNATIONAL CONFERENCE ON NANOTECHNOLOGY (IEEE-NANO 2023)

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