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## Welcome to 2023 IoT Forum

Excel in the IoT World at the 2023 IoT Forum: The Ultimate Blend of Business & Academia. Prepare for the event of the year – the 2023 IoT Forum, an exceptional collaboration that harmoniously unites business and academia in the Internet of Things domain. Experience the remarkable fusion of the prestigious Latin America and Brazilian Congress on IoT (LABCIoT) and the esteemed Symposium on the Internet of Things (SIoT) as they join forces for the second time in an extraordinary and concurrent event.

Join the action from October 25<sup>th</sup> to 27<sup>th</sup>, 2023, at the International Diffusion Center of the University of São Paulo in the vibrant and enchanting city of São Paulo, Brazil. Delve into the city's rich cultural atmosphere and the bustling center of Brazil's industrial and scientific endeavors.

**2023 LABCIoT:** Propel your IoT business expertise by connecting with industry trailblazers, visionaries, and entrepreneurs in high-impact sessions that shape the future of IoT. Embrace new opportunities, discover innovative approaches, and stay ahead in the constantly evolving IoT landscape.

**2023 SIoT:** Navigate the forefront of IoT research through stimulating discussions led by renowned scholars and researchers. Gain invaluable insights from top researchers and scholars as they unveil the latest advancements in IoT technology. The 2023 SIoT is supported by FBlIoT, SBMicro, SBA, SBC, SBIAgro, SBiT, and EDS/IEEE.

The 2023 IoT Forum, delivered in a cutting-edge hybrid format, provides the ideal platform for networking, collaboration, and knowledge exchange across the entire IoT ecosystem. Unleash the true potential of IoT through this unparalleled blend of business and academia, forging the path to a more connected and efficient future.

Seize the opportunity to be part of this extraordinary event – submit your scientific contributions to 2023 SIoT, secure your spot, and immerse yourself in the wonders of São Paulo as you explore the future of IoT!

## 2023 Symposium on IoT - October 25<sup>th</sup> to 27<sup>th</sup>, 2023

### PAPERS

ID	TITLE	AUTHORS
6	A Voice-assisted Approach for Vehicular Data Querying From Automotive IoT-based Databases	Andrade, Matheus; Wanderley, Esther; Azevedo, Mariana; Medeiros, Thais; Silva, Marianne; Silva, Ivanovitch; Costa, Daniel G
7	A Framework for Efficient Communication in IoT Applications in the Automotive Industry with OBD-II Edge	Medeiros, Morsinaldo; Azevedo, Mariana; Amaral, Miguel; Viegas, Carlos; Silva, Marianne; Silva, Ivanovitch; Costa, Daniel G
9	Internet of Energy Applications for the Brazilian Energy System	GOMES, Augusto; SANYA, Max; Embaló, Sumaé ; MENSAH, Johnson; Silva dos Santos, Ivan; BANDIRI, Sabi Yari Moise
11	Self-Adaptation in IoT Systems for Smart Cities	Nogueira, Bruno C; Motta, Rebeca; Delicato, Flávia; Batista, Thais
13	Hardware-Based Acceleration of an Approximate 2D DCT for a System-on-Chip	A. Coutinho, Vítor; Sipkoi, Gabor; Zuppardo Rufino, Cristóvão; de Oliveira Neto, José R
15	Artificial Noise for In-Home PLC Networks Under the Presence of PLC and Wireless Eavesdroppers	Filomeno, Mateus L; Moraes Campos, Gustavo; Camponogara, Ândrei; Sartorello, Pedro; RIBEIRO, MOISES V
16	A Frequency Division Modulation for CSS-based Communication Systems: An Initial Discussion	Moreira, Túlio F.; Filomeno, Mateus L; Martins, Wallace; RIBEIRO, MOISES V
19	A low cost open-source energy monitoring and control system for smart homes	Revoredo, Téo C; Azambuja, Heitor
20	Using Fog Computing for Bike-Sharing Systems	de Castro, Vítor Marques; Kleinschmidt, João Henrique
21	IoT Technology in Industrial Application (IIoT) -Used in monitoring of control valves	Monteiro, Waldomiro J.; Garcia, Claudio
25	Internet of Things: An Architecture to Online Monitoring Environmental Parameters	Melo, Thallyson; Tronco, Tania Regina; Dantas, Renato Falcão ; de Avila, Luis F.
27	Optimizing RF Energy Harvesting Systems for IoT Applications using Reinforcement Learning	Costa Lima, Lícia Sales; Doria, Renan Trevisoli; Suyama, Ricardo; Casella, Ivan; Doria, Rodrigo T; Capovilla, Carlos E
28	UFCity: A software architecture to create data ecosystem in smart cities	Pereira, Danne Makleyston; Brayner, Angelo
31	Development of an IoT-based Structural Parameter Monitoring System	Martins, Addressa C; Costa Monobi, Felipe Minoru; Roberto, Julia M; de Lyra, Pedro HC; Souza, Gustavo F
33	EDRaft: An Energy-Aware Consensus Algorithm for Low-Power IoT Devices	Barros, Glauber M. Silva; Aquino, Gibeon; Lopes, Paulo H Q; Oliveira, Felipe
35	IoT and big data analytics: under-rail maintenance management at Vitória – Minas Railway	Gogliano Sobrinho, Osvaldo; Mariani Bernucci, Liedi Legi; Corrêa, Pedro Pizzigatti; dos Santos Motta, Rosangela; Machicao, Jeaneth; Samuel Junqueira, Angelo; Dias de Queiroz, Wellington; Giriboni de Mello e Silva, Thales Cesar; Cassaro, Luciano; Oliveira, Luciano
39	Wireless IoT System for Detection of Fruit Maturation by Color and Ethylene Gas	Reis, Luiz; Souza, Ingrid; Silva, Jorge; Carvalho, Celso B; Da SilVa Júnior, Waldir; Bessa, Andrey; Amoedo, Diego; Mattos, Edma
40	Human resources training project in wireless communication technologies and IoT	da Silva Junior, Waldir; Carvalho, Celso B; Amoedo, Diego Alves; Valleria, Edma
41	Passive Analog Blocking Filter for Narrowband PLC Systems	Cantarino, Wesley mateus; emídio monteiro, Vinícius; Costa, Luis Guilherme Silva; RIBEIRO, MOISES V
42	An Augmented Capacitive Coupling Circuit for Boosting PLC Systems in IoT Domains	Costa, Luis Guilherme Silva; Rocha, Thiago C; Gonçalves, Gustavo; Cantarino, Wesley mateus; Ribeiro, Gabriel; RIBEIRO, MOISES V
45	Evaluating Conveyor Belt Health With Signal Processing Applied to Inertial Sensing	Matos, Saulo; Coletti, Otávio; Ugucioni Filho, Fernando ; Carvalho, Ricardo; Pinto, Thomas ; de Barros, Luiz; Ranieri, Caetano M; Eduardo, Bruno; Ueyama, Jó; Pessin, Gustavo
47	Openthread network density evaluation: Quantitative analyses	Mihaeljans, Martins; Skrastins, Andris
51	Livestock Management from the Air with RFID and Cooperating Drones	Cavalcanti, Millena; Endler, Markus; Lamenza, Thiago
55	Using Experimentation to Assess Security Requirements in IoT Software Systems	de Souza, Bruno Pedraça; de Paiva, Bruno Dantas; Travassos, Guilherme
57	Leveraging IoT and TinyML for Smart Battery Management in Electric Bicycles	Flores, Thomas Kevin Sales; Andrade, Matheus; Medeiros, Morsinaldo; Amaral, Miguel; Silva, Marianne; Silva, Ivanovitch
58	Assessment of the Impact of Hybrid Post-Quantum Cryptography on the Performance of the MQTT Communication Protocol	Aguiar Rampazzo, Felipe José; Amaral Henriques, Marco Aurelio

### POSTERS

ID	TITLE	AUTHORS
18	IIoT and the Cloud: A Mapping of Industrial Data Collection and Transmission Methods	Aguiar Díaz, Sergio A; Peña Reyes, Lázaro L; Garcia, Claudio
22	Oscillators in the 3.5 GHz band for Brazilian 5G systems	Tavares, Hugo; Mota, Vitor Luiz Gomes; Weber, Mauricio; Barucke, Cláudia; Magri, Vanessa
23	Bandpass Filter Design at 900MHz using Coupled Microstrip lines on FR4 substrate	Tavares, Vítor; Pereira, Jacqueline; Xavier, Odair; Mota, Vitor Luiz Gomes; Fernandes, Victor; Magri, Vanessa
24	Energy Optimization for D2D Communications in IoT Scenarios: Emphasizing Quality	Luiz, Daniel F.; Carvalho, Celso B
30	A real-time assessment of thermal comfort indexes in a Cyber-Physical System	Resende, Ranulfo Acir Oliveira; Pestana, Antonio; Ribeiro, Rafael Ifanger; Ramos, Josué J G
37	Analyzing Design-Prototype Discrepancies in Microstrip Patch Antennas for IoT Applications	Fonseca, Cláudia M. Santos; ADETONAH, CHRYSLÈNE; Cantarino, Wesley mateus; Monteiro, Vinícius; Costa, Luis Guilherme Silva; RIBEIRO, MOISES V; Schroeder, Marco ; Ramos, Glaucio L
46	Quality Control and Fault Detection with Statistics and Machine Learning: A Data-Driven Business Model	Huguenin, Lucas; Colombini, Angelo; Oliveira, Carlos
59	Evaluation of MQTT Protocol on ESP32 for LiDAR Sensors with Real-Time Measurements	Nacif, Lucas; Oliveira, Everthon Souza; Carvalho, Túlio O

**2023 Symposium on IoT – October 25th to 27th, 2023**

October 25 <sup>th</sup>			
TIME	SESSION	DETAILS	CHAIR
8:30 - 9:15	IoT Forum - Opening Session	Gabriel (FBloT) – Moisés (General Chair) – MCTI – Demi (NIC.br) – Marcelo (Inova USP) – Claudio (LABCIoT) – Sociedades: SBC, SBMicro, SbrT, SBA, SBIAgro	Opening Session Chair: Gabriel Marão
9:15 - 10:05	Plenary Speech – Generative and Discriminative AI Models for Next Generation Networked Cyber-Physical Systems	Speaker: Andrea M. Tonello	Keynote Speaker Chair: Marcelo Zuffo
	Coffee Break		
10:25 - 12:05	Technical Session S1: AI in IoT		Chair: Celso Carvalho
	S1 – ID 6	A Voice-assisted Approach for Vehicular Data Querying From Automotive IoT-based Databases	
	S1 – ID 35	IoT and big data analytics: under-rail maintenance management at Vitória – Minas Railway	
	S1 – ID 39	Wireless IoT System for Detection of Fruit Maturation by Color and Ethylene Gas	
	S1 – ID 27	Optimizing RF Energy Harvesting Systems for IoT Applications using Reinforcement Learning	
	Lunch		
14:00 - 14:50	Plenary Speech – IoT, a Retrospective on the Past Expectations Towards a Sustainable Roadmap	Speaker: Alessandro Bassi	Keynote Speaker Chair: Gabriel Marão
14:50 - 16:05	Technical Session S2: IoT Applications		Chair: Flávia Delicato
	S2 – ID 45	Evaluating Conveyor Belt Health With Signal Processing Applied to Inertial Sensing	
	S2 – ID 51	Livestock Management from the Air with RFID and Cooperating Drones	
	S2 – ID 55	Using Experimentation to Assess Security Requirements in IoT Software Systems	
	Coffee Break		
16:25 - 16:45	Poster Session		
16:45 - 17:35	Invited Talk – When blockchain meets IoT	Jó Uyeama – ICMC/ USP	
17:35 - 18:15	Invited Talk – IoT and Society	Prof. Edison Spina – CEST/ USP	
18:20 - 19:20	WELCOME RECEPTION		

October 26 <sup>th</sup>			
TIME	SESSION	DETAILS	CHAIR
9:00 - 9:50	Plenary Speech – Open 6G: Toward a Reference Architecture for Secure AI-Driven NextG Open RAN Systems	Speaker: Tommaso Melodia	Keynote Speaker Chair: Claudio Violato
	Coffee Break		
10:10 - 12:15	Technical Session S3: IoT in Communications		Chair: Bruno Sanche
	S3 – ID 15	Artificial Noise for In-Home PLC Networks Under the Presence of PLC and Wireless Eavesdroppers	
	S3 – ID 16	A Frequency Division Modulation for CSS-based Communication Systems: An Initial Discussion	
	S3 – ID 40	Human resources training project in wireless communication technologies and IoT	
	S3 – ID 41	Passive Analog Blocking Filter for Narrowband PLC Systems	
	S3 – ID 42	An Augmented Capacitive Coupling Circuit for Boosting PLC Systems in IoT Domains	
	Lunch		
14:00 - 14:50	Plenary Speech – IoT in the Era of the Continuum Computing: Challenges and Opportunities	Speaker: Antonio Skarmeta	Keynote Speaker Chair: José Augusto Monteiro
14:50 - 16:25	Technical Session S4: IoT using Edge, Fog and Cloud		Chair: Rebeca Motta
	S4 – ID 7	A Framework for Efficient Communication in IoT Applications in the Automotive Industry with OBD-II Edge	
	S4 – ID 20	Using Fog computing for Bike-Sharing Systems	
	Coffee Break		
	S4 – ID 31	Development of an IoT-based Structural Parameter Monitoring System	
16:25 - 18:05	Technical Session S5: Performance Improvement		Chair: Ivan Casella
	S5 – ID 13	Hardware-Based Acceleration of an Approximate 2D DCT for a System-on-Chip	
	S5 – ID 33	EDRaft: An Energy-Aware Consensus Algorithm for Low-Power IoT Devices	
	S5 – ID 47	Openthread network density evaluation: Quantitative analyses	
	S5 – ID 58	Assessment of the Impact of Hybrid Post-Quantum Cryptography on the Performance of the MQTT Communication Protocol	
19:30 - 22:30	CONFERENCE DINNER		

October 27 <sup>th</sup>			
TIME	SESSION	DETAILS	CHAIR
9:00 - 9:50	Plenary Speech – Challenges and Directions to Break Silos in Smart Cities Applications Development	Speaker: Thais Batista	Keynote Speaker Chair: Flavia Delicato
	Coffee Break		
10:10 - 11:50	Technical Session S6: IoT for Smart Cities and Industry		Chair: Renata Marè
	S6 – ID 11	Self-Adaptation in IoT Systems for Smart Cities	
	S6 – ID 25	Internet of Things: An Architecture to Real-Time Monitoring Environmental Parameters	
	S6 – ID 28	UFCity: A software architecture to create data ecosystem in smart cities	
	S6 – ID 21	IoT Technology in Industrial Application (IIoT) -Used in monitoring of control valves	
	Lunch		
13:30 - 14:20	Plenary Speech – Towards an Energy Efficient Spiking Internet of Things	Speaker: Adrian M. Ionescu	Keynote Speaker Chair: Jacobus Swart
14:20 - 15:35	Technical Session S7: IoT and Energy		Chair: Mateus Filomeno
	S7 – ID 9	Internet of Energy Applications for the Brazilian Energy System	
	S7 – ID 19	A low cost open-source energy monitoring and control system for smart homes	
	S7 – ID 57	Leveraging IoT and TinyML for Smart Battery Management in Electric Bicycles	
	Coffee Break		
17:40 - 18:20	IoT Forum - Closing Session	Board of Fórum Brasileiro IoT, SBMicro, ...	

**2023 Latin American and Brazilian Congress on IoT – October 25th to 27th, 2023**

<b>October 25<sup>th</sup></b>			
Schedule	MODULE	GUESTS	COORDINATOR
8:30 - 9:15	IoT Forum - Opening Session	Gabriel (FBIoT) – Moisés (General Chair) – MCTI – Demi (NIC.br) – Marcelo (Inova USP) – Claudio (LABIoT) – Representações das Sociedades: SBC,SBMicro,SbrT,SBA,SBIAgro	Gabriel Marão
9:15 - 10:05	Plenary Speech – Generative and Discriminative AI Models for Next Generation Networked Cyber-Physical Systems	Andrea M. Tonello	Keynote Chair: Marcelo Zuffo
	Coffee Break		
10:25 - 11:15	Panorama Internacional de IoT	Alessandro Bassi - IoTItaly	Gabriel Marão
11:15 - 12:05	Planos do Governo Federal em IoT	Henrique de Oliveira Miguel - MCTI	Gabriel Marão
	Lunch		
14:00 - 14:50	Plenary Speech – IoT, a Retrospective on the Past Expectations Towards a Sustainable Roadmap	Alessandro Bassi	Keynote Chair : Gabriel Marão
14:50 - 15:50	Educação – Novas competências necessárias	José Ricardo da Silva - SENAI Carlos Eduardo Ribeiro - Centro Paula Souza Fernando Di Gianni - Centro Paula Souza	Almério Melquíades de Araújo
	Coffee Break		
16:20 - 17:20	Aspectos de segurança informática e física em sistemas que usam IoT	Rodrigo Neves - Bosch Luis Gustavo Nardin – LIMOS, France Káthia Oliveira – LAMIH, France	Afonso Ferreira
17:20 - 18:20	Dispositivos para Sistemas IoT	Luiz Montrezol Junior - SENAI Augusto Ruy Machado - LSITEC - USP Leonardo Fonseca Neto - Italtel	Marcos Sakamoto
18:20 - 19:20	<b>WELCOME RECEPTION</b>		

<b>October 26<sup>th</sup></b>			
Schedule	MODULE	GUESTS	COORDINATOR
9:00 - 9:50	Plenary Speech – Open 6G: Toward a Reference Architecture for Secure AI-Driven NextG Open RAN Systems	Tommaso Melodia	Keynote Chair : Claudio Violato
	Coffee Break		
10:10 - 11:10	Casos de Uso de IoT na Indústria	Helena Dutra - CAIO INDUSCAR Threicy Rodrigues da Cova - ZARAPLAST Cap. David Marques - PMSP	Fernando Claro
11:10 - 12:10	Casos de Uso de IoT em Cidades	Edison de Oliveira Vianna Jr. - CET SP Rogério Rodrigues Amarante - Pref. Campinas	Robson Arantes
	Lunch		
14:00 - 14:50	Plenary Speech – IoT in the Era of the Continuum Computing: Challenges and Opportunities	Antonio Skarmeta	Keynote Chair : José A. Suruagy Monteiro
14:50 - 15:50	Casos de Uso de IoT no Agronegócio	Norberto Alves Ferreira - CPQD Anselmo del Toro Arce - Solinftec Marcelo Vieira - Greenbug	Alberto Paradisi
	Coffee Break		
16:10 - 17:10	Inteligência Artificial em Sistemas IoT	Nizam Omar Renata Martins dos Anjos - SIDI Diogo Lino - Petrobras Fabio Gagliardi Cozman - USP Maisa Duarte - Bradesco	Herberto Macoto Yamamuro
17:10 - 18:10	Empreendedorismo	Juliano Oliveira - HWIT Diego Siqueira - Quanticum Juliana Chini - Arable	Hélio Graciosa
19:30 - 22:30	<b>CONFERENCE DINNER</b>		

<b>October 27<sup>th</sup></b>			
Schedule	MODULE	GUESTS	COORDINATOR
9:00 - 9:50	Plenary Speech – Challenges and Directions to Break Silos in Smart Cities Applications Development	Thais Batista	Keynote Chair: Flávia Delicato
	Coffee Break		
10:10 - 11:10	Desafios e casos de uso de IIoT na Petrobras	André Kuramoto - Petrobras Refino Diogo L. Passos Machado - Petrobras Eduardo Tude - TELECO	Diogo Lino Passos Machado
11:10 - 12:10	IoT em Redes Privativas	Renato Carlos Coutinho - TIM Leandro Rebouças - Telefônica Eduardo Polidoro de Souza - Claro	Paulo Portocarrero
	Lunch		
13:30 - 14:20	Plenary Speech – Towards an Energy Efficient Spiking Internet of Things	Adrian M. Ionescu	Keynote Chair : Jacobus Swart
14:20 - 15:20	IoT: Negócio para Operadoras Competitivas?	Luiz Henrique Barbosa da Silva - TelComp Dustin Pozzetti - KPMG	Luiz Henrique Barbosa da Silva
	Coffee Break		
15:40 - 16:40	Aplicações de IoT na Saúde	Anderson de Almeida Pereira - Anvisa Marco Antonio Gutierrez - Incor/FMUSP Alexandre D. P. Chiavegatto Filho - USP Fac. Saúde Pública	Flavio Grynszpan
16:40 - 17:40	Aplicações de IoT na Aviação	TBD - Azul	Vidal Zapparoli Melo
17:40 - 18:20	IoT Forum - Closing Session	Diretoria Fórum Brasileiro IoT, SBMicro, Jacobus Swart, Claudio, Moisés, Cecília Castro Cesar, ...	

Legend

2023 IoT Forum (2023 SIoT + 2023 LABCIoT)

2023 LABCIoT

2023 SIoT

2023 IoT Forum – General Program

October 25 <sup>th</sup>		October 26 <sup>th</sup>		October 27 <sup>th</sup>	
Start	Start	Start	Start	Start	Start
08:30					
	IoT Forum - Opening Session				
09:15	Plenary Speech – Generative and Discriminative AI Models for Next Generation Networked Cyber-Physical Systems <i>Andrea M. Tonello</i>		09:00	Plenary Speech – Open 6G: Toward a Reference Architecture for Secure AI-Driven NextG Open RAN Systems <i>Tommaso Melodia</i>	
			09:50	Coffee Break	
10:05	Coffee Break		10:10	Coffee Break	
10:25	Panorama Internacional de IoT	10:25	Casos de Uso de IoT na Indústria	10:10	S3 – ID 15
		10:50		10:35	S3 – ID 16
11:15	Planos do Governo Federal em IoT	11:15	Casos de Uso de IoT em Cidades	11:00	S3 – ID 40
		11:40		11:25	S3 – ID 41
		11:50		S3 – ID 42	
12:05	Lunch			12:10	Lunch
14:00	Plenary Speech – IoT, a Retrospective on the Past Expectations Towards a Sustainable Roadmap <i>Alessandro Bassi</i>		14:00	Plenary Speech – IoT in the Era of the Continuum Computing: Challenges and Opportunities <i>Antonio Skarmeta</i>	
14:50	Educação – Novas competências necessárias	14:50	Casos de Uso de IoT no Agronegócio	14:50	S4 – ID 7
		15:15		15:15	S4 – ID 20
		15:40		15:40	Coffee Break
15:50	Coffee Break		15:50	Coffee Break	
16:20	Aspectos de segurança informática e física em sistemas que usam IoT	16:25	Inteligência Artificial em Sistemas IoT	16:00	S4 – ID 31
		16:45		16:25	S5 – ID 13
17:20	Dispositivos para Sistemas IoT	17:35		16:50	S5 – ID 33
			17:10	17:15	S5 – ID 47
18:20	Welcome Reception		17:40	S5 – ID 58	
			18:10	18:05	
			19:30	Conference Dinner	
				10:10	S6 – ID 11
				10:35	S6 – ID 25
				11:00	S6 – ID 28
				11:25	S6 – ID 21
				11:50	Lunch
				12:10	Lunch
				13:30	Plenary Speech – Towards an Energy Efficient Spiking Internet of Things <i>Adrian M. Ionescu</i>
				14:20	IoT: Negócio para Operadoras Competitivas?
				14:20	S7 – ID 9
				14:45	S7 – ID 19
				15:10	S7 – ID 57
				15:20	Coffee Break
				15:35	Coffee Break
				15:40	Aplicações de IoT na Saúde
				16:40	Aplicações de IoT na Aviação
				17:40	IoT Forum - Closing Session
				18:20	

## Important Dates - SlOT

Deadline extension:

- Paper submission: August 1<sup>st</sup>, 2023 | August 16<sup>th</sup>, 2023 | August 25<sup>th</sup>, 2023
- Author notification: September 15<sup>th</sup>, 2023 | September 25<sup>th</sup>, 2023 | September 29<sup>th</sup>, 2023
- Camera-Ready deadline: October 2<sup>nd</sup>, 2023 | October 10<sup>th</sup>, 2023 | October 12<sup>th</sup>, 2023

## Keynote Speakers



**Andrea M. Tonello**  
University of Klagenfurt, Austria



**Antonio F. Skarmeta**  
University of Murcia, Spain



**Tommaso Melodia**  
William Lincoln Smith Professor at  
Northeastern University, USA



**Alessandro Bassi**  
Eurescom GmbH



**Thais Batista**  
Universidade Federal do Rio Grande  
do Norte, Brazil



**Adrian M. Ionescu**  
Ecole Polytechnique Federale de  
Lausanne (EPFL), Switzerland

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