IEEE SMART CITY USA 2026

Conference Program & Technical Sessions

Saturday, November 21, 2026 | Virtual Conference
All times Central Standard Time (CST / UTC-6)

Conference-wide agenda

Time (CST)	Program
9:00–9:20 AM	Opening ceremony and conference welcome
9:20–9:40 AM	Keynote 1 - Dr. Luciano Alessandro Ipsaro Palesi
9:40–10:00 AM	Keynote 2 - Dr. Shantanu Kumar
10:00–10:20 AM	Keynote 3 - Dr. Neelu Nagpal
10:20–10:30 AM	Transition to breakout rooms
10:30 AM–12:30 PM	Technical Session Block 1 - seven parallel rooms
12:30–1:00 PM	Lunch / return to main meeting
1:00–1:20 PM	Invited Speaker - Ravichandu Baratam
1:20–1:30 PM	Transition to breakout rooms
1:30–3:30 PM	Technical Session Block 2 - seven parallel rooms
3:30–3:40 PM	Closing ceremony and vote of thanks

Seven parallel breakout rooms

Room	Technical session	Session chair
Room 1	Smart Infrastructure & Public Services	Swathi Kottali
Room 2	Smart Energy & Sustainability	Karthik Chandrasekaran
Room 3	Smart Mobility & Transportation	Jatin Rao
Room 4	AI, Cloud & Data Platforms	Sravanthi Konduju
Room 5	Trustworthy AI & Cybersecurity	Nitin Shah
Room 6	Data Spaces & Digital Twins	Phanindra Sagiraju
Room 7	IoT, Sensors & Edge Intelligence	Jonathan Bheri

Presentation titles are grouped by related subject matter; the seven room themes may differ from the original proposal-submission topic tracks.

IEEE SMART CITY USA 2026

TECHNICAL SESSION 1

10:30 AM – 12:30 PM

SEVEN PARALLEL BREAKOUT ROOMS

Rooms 1–7

Saturday, November 21, 2026

Central Standard Time (CST)

Room 1 - Smart Infrastructure & Public Services

Morning Technical Session | Saturday, November 21, 2026 | 10:30 AM–12:30 PM CST

Technical session	Smart Infrastructure & Public Services
Session chair	Swathi Kottali
Zoom venue	Breakout Room 1 (main conference Zoom meeting)
Session time	10:30 AM–12:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1336732	Mitigating Civic Cognitive Debt: Pre-AI Guardrails for Smart City Infrastructure	Devika Toprani
1335801	From Pilot to Public Service: A Practical Test for Scaling Smart-City Technology	Gayathri Kolandaisami
1329776	From Smart Cities to Wise Communities: Technology That Leaves No One Behind	Raquel Castro Madureira
1346186	Physical AI for Safe and Intelligent Smart City Construction	Shyam Laheri Chunduri
1346864	From Capital Projects to Smart Cities: AI-Driven Predictive Governance for Public Infrastructure	Venkata Suresh Babu Kamma
1341068	AI-Governed Digital Experience Platforms for Trusted Smart City Services	Sham Sunder Reddy Dadi

Talk sequence is listed for navigation; individual speaking times are managed by the session chair. Only registered presenters are named.

Each talk: 15-minute presentation followed by 5-minute Q&A. Attendees may select their preferred breakout room within the same Zoom meeting.

Room 2 - Smart Energy & Sustainability

Morning Technical Session | Saturday, November 21, 2026 | 10:30 AM–12:30 PM CST

Technical session	Smart Energy & Sustainability
Session chair	Karthik Chandrasekaran
Zoom venue	Breakout Room 2 (main conference Zoom meeting)
Session time	10:30 AM–12:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1332361	India's Grid Modernisation: A Full-Stack Roadmap	Sumit Mahato
1336440	Data without Visibility: Building Synchronized Operational Awareness for the Gulf of Guinea	Siyanbola Ajiboye
1349827	Beyond Smart Cities: AI, Sustainability and the Rise of Fifth-Generation Cities	Haidy Shehata
1347837	Where you train and deploy your AI model matters: The Water and Carbon Cost of Sovereign AI	Muntaser Syed
1353765	Modernizing Legacy Systems for Resilient and Compliant Smart Cities	Iswarya Srinivasan

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Room 3 - Smart Mobility & Transportation

Morning Technical Session | Saturday, November 21, 2026 | 10:30 AM–12:30 PM CST

Technical session	Smart Mobility & Transportation
Session chair	Jatin Rao
Zoom venue	Breakout Room 3 (main conference Zoom meeting)
Session time	10:30 AM–12:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1332126	How Local Stores Can Power Smart Cities: Using Neighborhood Shops to Cut Traffic and Pollution	Uttam Kumar
1334707	Automating the Last Mile: How 3PL Robotics Investment Is Reshaping Urban Logistics	Ashvin Kulkarni
1343032	SpotFinder: A MBSE Approach to Predictive, AI-Driven Smart Parking for University Campuses	Evans Yiadom Boakye
1350684	Evidence-Aware Vision Pipelines for Smart Infrastructure	Sujan Kumar Botla
1351566	Smart EV Infrastructure for Sustainable and Resilient Cities	Venkateswarlu Mullangi

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Room 4 - AI, Cloud & Data Platforms

Morning Technical Session | Saturday, November 21, 2026 | 10:30 AM–12:30 PM CST

Technical session	AI, Cloud & Data Platforms
Session chair	Sravanthi Konduju
Zoom venue	Breakout Room 4 (main conference Zoom meeting)
Session time	10:30 AM–12:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1340464	Trustworthy Autonomy for AI Data Centers	Indra Kumar Mondal
1340234	Building Resilient Data Platforms for AI-Driven Infrastructure: Lessons from Regulated Enterprises	Selvamurugan Ramamoorthy
1332087	Testing Before Failure: Building Resilient Event-Driven Platforms for Smart-City Services	Bhaskar Manchuri
1346222	Beyond GPUs: Building Reliable AI Infrastructure for Smart Cities	Arun Anbumani
1333546	Multi-Agent AI Orchestration for Resilient Supply Chains: Enterprise Lessons at Scale	Naveen Kumar Kotha
1334525	From AI Models to Real-World Impact: Building an AI-Powered Community Intelligence Platform	Keerthana Gadde

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Room 5 - Trustworthy AI & Cybersecurity

Morning Technical Session | Saturday, November 21, 2026 | 10:30 AM–12:30 PM CST

Technical session	Trustworthy AI & Cybersecurity
Session chair	Nitin Shah
Zoom venue	Breakout Room 5 (main conference Zoom meeting)
Session time	10:30 AM–12:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1350382	Governing the Machine in the Loop: Guardrails for AI-Written Code in City-Scale Systems Where a Bug	Ashutosh Pal
1328757	The Smart City AI Control Plane: Governing Autonomous Agents Across Digital Infrastructure	Nithesh Gudipuri
1336621	Reducing Cloud Identity Debt Across Smart City and Critical Infrastructure Systems	Sarath Gadde
1349439	Your Agent Can Act Now: Zero-Trust Patterns for Autonomous AI in Smart Cities	Yesha Patel Nithesh Gudipuri
1357786	Zero Trust for AI-Enabled Smart-City Services: Securing Identities, Data and Automated Actions	Vikram Pande
1339584	Governing Agentic AI for Financial Crime Detection in Smart City Platforms	Pratikkumar Bhupendrabhai Patel

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Each talk: 15-minute presentation followed by 5-minute Q&A. Attendees may select their preferred breakout room within the same Zoom meeting.

Room 6 - Data Spaces & Digital Twins

Morning Technical Session | Saturday, November 21, 2026 | 10:30 AM–12:30 PM CST

Technical session	Data Spaces & Digital Twins
Session chair	Phanindra Sagiraju
Zoom venue	Breakout Room 6 (main conference Zoom meeting)
Session time	10:30 AM–12:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1338534	Smart City Data to Intelligent Decisions: An Enterprise Architecture for AI-Driven Urban Platforms	DR Gaurav Kumar Gupta
1348864	Right Data, Right Asset, Right Time: Engineering Trustworthy Smart-City AI Pipelines	Vaidehi Sinha
1339281	Agentic AI for Smart City Operations: Permissions, Evaluations and Human Control	Sagar Rao
1348893	Trusted AI Starts with Trusted Data: Governing AI in Smart Cities	Varija Singh
1357783	Fusing Fragmented City Data into One Trustworthy Signal: Lessons from 13 U.S. Metros	Toyosi Bami
1337973	From Digital Twins to Trusted Decision Loops: Engineering AI-Enabled Smart City Operations	Tarun Reddy Nukala

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Room 7 - IoT, Sensors & Edge Intelligence

Morning Technical Session | Saturday, November 21, 2026 | 10:30 AM–12:30 PM CST

Technical session	IoT, Sensors & Edge Intelligence
Session chair	Jonathan Bheri
Zoom venue	Breakout Room 7 (main conference Zoom meeting)
Session time	10:30 AM–12:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1344354	Cleartext at the Edge: A Neptune R900 Case Study in RF Telemetry Exposure	Rick Ramirez
1345730	The Weakest Link in the Smartest City	Vijay Anantha Murthy
1353511	From Smart Homes to Safe Homes: Using IoT and Edge AI to Prevent Pediatric High-Rise Falls	Nikita Menon
1356804	Trustworthy LiDAR Sensing for Smart Cities: Data Integrity in Urban Tree Assessment	Shahed Enamul Quadir
1339545	Reliable High-Performance SoCs for Resilient Smart Infrastructure	Sagar Mallik

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TECHNICAL SESSION 2

1:30 PM – 3:30 PM

SEVEN PARALLEL BREAKOUT ROOMS

Rooms 1–7

Saturday, November 21, 2026

Central Standard Time (CST)

Room 1 - Smart Infrastructure & Public Services

Afternoon Technical Session | Saturday, November 21, 2026 | 1:30–3:30 PM CST

Technical session	Smart Infrastructure & Public Services
Session chair	Swathi Kottali
Zoom venue	Breakout Room 1 (main conference Zoom meeting)
Session time	1:30–3:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1343600	Beyond Technology: Empowering Women and Young Professionals to Lead the Future of Smart Cities	Neha Prakash Madhushree Kumari
1345134	Scalable Review and Certification Platforms for Smart City Digital Services	Rajendar Reddy Sama
1347910	AI Agents for Cities: Closing the Public-Service Access Gap	Krishna Tyagi
1350319	Turning Complex Ideas Into Messages People Understand, Trust, and	Kevin Williams
1343286	From Field Events to Project Controls: Making Infrastructure Costs Visible Before Month-End	Rishabh Dave
1344825	Scaling Multilingual Accessibility for Inclusive Smart-City Services	Anandkumar Viswanathan

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Room 2 - Smart Energy & Sustainability

Afternoon Technical Session | Saturday, November 21, 2026 | 1:30–3:30 PM CST

Technical session	Smart Energy & Sustainability
Session chair	Karthik Chandrasekaran
Zoom venue	Breakout Room 2 (main conference Zoom meeting)
Session time	1:30–3:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1357027	Securing AI-Driven Smart City Platforms: Enterprise Architecture, Cybersecurity & Responsible AI	Jitendra Rout
1336413	Failover Toward the Sun: When Your Resilience Architecture Learns to Care About Carbon	Parameswaran V Vaidyanathan
1357409	AI as City Infrastructure: Managing the Energy and Climate Trade-offs	Balasaheb Wani
1355322	Power Restored, Services Still Down: A Dependency-Aware Recovery Workshop for Smart Cities	Mridul Agrawal
1357559	Resilient or Optimized? A Closer Look at Tradeoffs in Climate-Ready Smart Cities	Devisharan Mishra Balasaheb Wani
1353571	When the Grid and Cell Networks Fail Together: Lessons from Wartime Kyiv for Smart Cities	Pavlo Chernikov

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Room 3 - Smart Mobility & Transportation

Afternoon Technical Session | Saturday, November 21, 2026 | 1:30–3:30 PM CST

Technical session	Smart Mobility & Transportation
Session chair	Jatin Rao
Zoom venue	Breakout Room 3 (main conference Zoom meeting)
Session time	1:30–3:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1353586	AI-Powered Epic-Rideshare Integration for Smarter Healthcare Access	Sai Sharan Reddy Mittapelly
1340432	Connected Mobility at Scale: Device and eSIM Readiness for Reliable Networks	Umang Joshi
1343634	Digital Twins for Predicting Cascading Urban Freight and Transportation Disruptions	Manikandan Chandran
1344437	When the Map Is Wrong: Multimodal AI for Real-Time Road Closure Mapping	Nidhi Sridhar
1346093	From AI to Autonomy: Building Intelligent Robotic Systems for Smart Cities	Pravin Kumar Muralidaran
1346108	Can You Trust the AI That Just Flagged Your Traffic Camera Feed?	Pravin Nagare

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Room 4 - AI, Cloud & Data Platforms

Afternoon Technical Session | Saturday, November 21, 2026 | 1:30–3:30 PM CST

Technical session	AI, Cloud & Data Platforms
Session chair	Sravanthi Konduju
Zoom venue	Breakout Room 4 (main conference Zoom meeting)
Session time	1:30–3:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1334712	From Retail Data to Intelligent Software Platforms: Backend Engineering for Real-Time Analytics	Srikavya Pajjuru
1349576	Building Scalable Azure Data Pipelines AI Agents using PySpark, Delta & Databricks	Harish kumar Kanukuntla
1343802	Resilient Digital Payments for Smart Cities with Retry and Idempotency Design	Shatrughna Upadhyay
1344587	2,000+ Agent Runs a Month in Production: Architecture, Failures, and the MCP Layer	Ignácio Correia
1347986	AI-Driven Payment Security for Resilient and Inclusive Smart City Ecosystems	Arpit Mittal
1351971	How It’s Made – The Building of an AI Data Center	Tadeh Hakopian

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Room 5 - Trustworthy AI & Cybersecurity

Afternoon Technical Session | Saturday, November 21, 2026 | 1:30–3:30 PM CST

Technical session	Trustworthy AI & Cybersecurity
Session chair	Nitin Shah
Zoom venue	Breakout Room 5 (main conference Zoom meeting)
Session time	1:30–3:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1357847	Trustworthy AI Agents for Smart City Operations: When the Customer never opted in	Sangeetha Durairaju
1330576	Trustworthy AI for Smart Cities: A Practical Governance Framework for High-Stakes Urban Systems	Saurabh Kakkar
1340423	Ethical AI for Inclusive Smart Cities: Responsible Mobile Finance at Urban Scale	Sutheesh Sukumaran
1333203	From Pilot to Production: Governance, Resilience, and Cost Control for Civic AI Infrastructure	Hardeep Singh Tiwana
1333405	Who Governs the Agents? A Standards-Based Framework for Autonomous AI in City Systems	Vasanth Rajendran
1333479	Can You Trust an AI to Run Your City? A Playbook from the Chip Fab's That Already Do	Ajay Kumar Govindaram

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Room 6 - Data Spaces & Digital Twins

Afternoon Technical Session | Saturday, November 21, 2026 | 1:30–3:30 PM CST

Technical session	Data Spaces & Digital Twins
Session chair	Phanindra Sagiraju
Zoom venue	Breakout Room 6 (main conference Zoom meeting)
Session time	1:30–3:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1339125	Zero Trust Identity for Smart Cities: Securing Citizens, APIs, IoT, and Legacy Infrastructure	Damodhara Reddy Palavali
1339597	Predictive Risk Modeling for Critical Systems: A Cross-Domain Engineering Case Study	Saideep Nakka
1355398	Building Trustworthy AI-Driven Smart Cities: A Framework for Real-Time Data and Governance	Aditya Ranjan
1357878	Measuring Urban Mental Wellbeing Risk with the Data Your City Already Has	Tzirath Perez
1345044	One Platform, Many Departments: Scaling AI Agents Across City Services	Ashish Shubham
1354536	Beyond Data Silos: Building AI-Ready Smart Cities with Governed Feature Repositories	Lipsa Senapati

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Room 7 - IoT, Sensors & Edge Intelligence

Afternoon Technical Session | Saturday, November 21, 2026 | 1:30–3:30 PM CST

Technical session	IoT, Sensors & Edge Intelligence
Session chair	Jonathan Bheri
Zoom venue	Breakout Room 7 (main conference Zoom meeting)
Session time	1:30–3:30 PM CST

Presentations in this session

Proposal ID	Presentation title	Registered presenter(s)
1334991	Modular Orchestration Architectures for Scalable Spatial Data Processing in Mixed Reality	Ajinkya Dhaigude
1340463	Edge AI and BLE for Low-Power, Secure, and Scalable Smart City IoT Systems	Bhushan Gopala Reddy
1342619	Resilient Edge AI for Smart Environments: Designing Perception Systems That Degrade Gracefully	Nishant Revur
1343661	Edge AI for Smart Cities: Private, Verifiable On-Device Intelligence	RanjithKumar Ragavan
1344213	Fraud Mitigation in Enterprise Voice Replication System	Ashish Sadana
1357703	Sub-Watt Edge Silicon: Deploying Ultra-Low-Power hardware for Resilient Urban Vision Systems	Ishaan Gupta

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