Join us for a session on

Smart Cities Athens Greece

October 12, 2023, 7 am PDT

Live Stream Seattle Washington

What makes Athens one of the top smart cities on the globe? What are they doing that other cities are not?

Join us for our IEEE CN Smart Cities session on Athens Greece. Find out why this ancient city is one of the Smartest on the Globe. Smart transportation, smart connectivity, smart health, smart education, smart water, and smart buildings. "**Athens is a pioneer in the national effort for digital transformation**. In less than three years we have created a municipality of high technology and zero bureaucracy, responding effectively and directly to one of the greatest demands of our citizens," said Mayor Kostas Bakoyannis.

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IEEE

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Panagiotis Demestichas of University of Piraeus

Transforming Cities through Coordinated Investments into Applications and Advanced Technologies.

Cities need coordinated investments into advanced solutions to transform their operation and optimize their "livability". To positively impact the lives of many citizens investments are needed in key areas. Air quality and environment protection at large. The breathing of polluted air is a key problem for city inhabitants, and the cause of many health issues. Measuring at a fine-grained level of detail, analyzing / predicting the impact, issuing warnings. The use of water and energy resources needs to be optimized. Water quality needs to be rigidly monitored, while energy needs should be served and be served through renewable sources, to the highest extent possible. Transportation infrastructure needs to be monitored, in terms of structural health and traffic they carry to enable subsequent optimizations. Finally, the citizen health, especially that of special groups and of the elderly needs to be constantly monitored, by the respective specialized personnel and, of course, be accessible by the "close" / "next-of-kin" ones. The talk is going to discuss such applications, benefits, and underpinning technologies / challenges, and on the way that the aggregation leads to a comprehensive and highly effective result.

Prof. Panagiotis Demestichas is a Professor at the University of Piraeus, Department of Digital Systems, School of ICT, Greece. Currently, he focuses on the development of systems for WINGS ICT Solutions (www.wings-ict-solutions.eu) and its spin-out, ditto (https://ditto-gr.eu/) and Incelligent (www.incelligent.net). WINGS focuses on advanced solutions, leveraging on IoT / 5G / AI / AR, for the environment (air quality, protection), for utilities and infrastructures (water, energy, gas, transportation, construction), for production and manufacturing (aquaculture, agriculture and food safety, logistics and industry 4.0), service sectors (health, defense). Incelligent focuses on products for telecommunication infrastructures, banking and sectors of a digital government. Panagiotis conducts research interests include B5G / 6G, cloud to extreme-edge continuum, IoT solutions, big data management, artificial intelligence, orchestration / diagnostics / intent-oriented mechanisms. He holds a Diploma and a Ph.D. degree in Electrical Engineering from the National Technical University of Athens (NTUA). He holds patents, has published numerous articles and research papers, and is a member of the Association for Computing Machinery (ACM) and a Senior Member of IEEE.

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