InterSCity: A Scalable Microservice-based Open Source Platform for Smart Cities
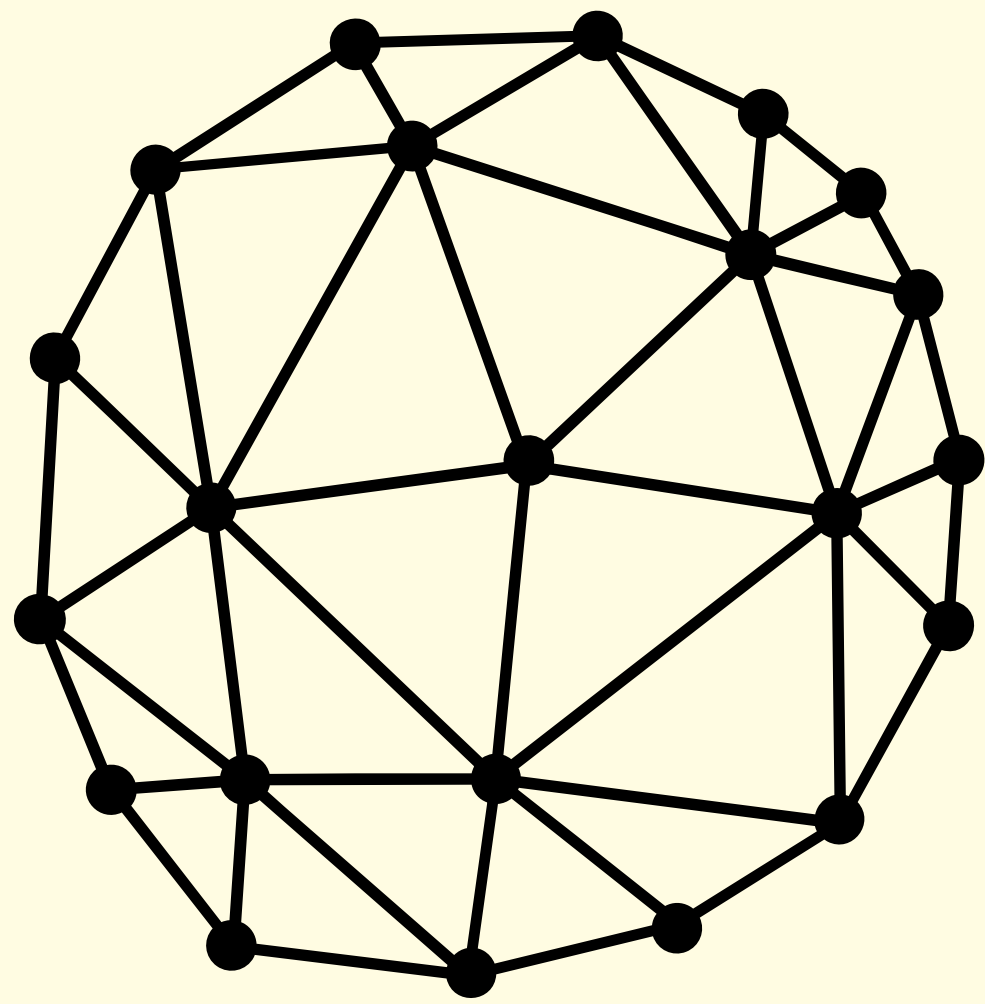
The InterSCity logo

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Context

- Large cities have problems related to mobility, pollution, health, energy, housing, among others
- Smart cities emerge as a potential solution that aims at:
  - Using city resources efficiently
  - Providing quality services for citizens
  - Tackling urban problems

The InterSCity Platform

- An open-source, microservice-based project to enable novel smart city research, development, and deployment initiatives
- It provides a set of high-level cloud-based services that mediate the communication between the applications and the city devices:
  - Manage heterogeneous city resources
  - Integrate with IoT Systems
  - Big Data storage and processing
  - Context-aware resource discovery

InterSCity Architecture

Future plans

- We expect the InterSCity platform to be useful for various research projects dealing with smart cities.
- The project involves several important research institutions in Brazil and should produce
  - Papers
  - Theses
  - Working software

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