Hierarchical Taxonomy of AI in Urban Studies Research

Subject Clusters → Research Trends → Megatrends → Root

Subject Clusters	Research Trends	Megatrends	Root

Subject Clusters

- Urban Infrastructure & Technology (272)
- Smart Infrastructure (192)
- Smart City Infrastructure (63)
- Urban Infrastructure (36)
- Urban Intelligence & Analytics (95)
- Urban Analytics (34)
- Remote Sensing & Image Analysis (14)
- Mobility & Transportation (110)
- Urban Mobility (77)
- Transportation and Mobility (70)
- Traffic Management (52)
- Urban Planning & Land Use (73)
- Urban Planning (62)
- Safety and Governance (52)
- Urban Governance & Society (45)
- Security & Safety (45)
- Urban Living & Quality of Life (37)
- Smart Grid (36)
- Urban Services (30)

- Urban Environment & Sustainability (442)
- Environment & Sustainability (65)
- Environmental Quality (33)
- Air Quality (81)
- Carbon Emissions (28)
- Air Quality & Emissions (18)
- Urban Climate and Environment (48)
- Climate and Microclimate (44)
- Heat Island (31)
- Urban Heat & Climate (29)
- Infrastructure and Utilities (44)
- Green Infrastructure (18)
- Green Spaces (16)
- Water Quality (11)
- Energy Management (29)
- Smart Grid & Energy (22)
- Building Energy (14)
- Smart Grid (12)
- Urban Planning & Land Use (70)
- Urban Infrastructure & Technology (56)
- Mobility & Transportation (42)

- Transportation & Mobility (129)
- Public Transit (10)
- Public Transit & Shared Mobility (6)
- Bike Sharing (5)
- Intelligent Transportation Systems (63)
- Traffic Management (15)
- Traffic & Congestion (14)
- Traffic Safety (13)
- Urban Mobility (70)
- Mobility & Transportation (53)
- Walkability (8)
- Mobility & Accessibility (7)
- Traffic Prediction (9)
- Parking (7)
- Autonomous Vehicles (5)
- EV Infrastructure (4)

- Urban Planning & Land Use (133)
- Urban Planning (56)
- Land Use and Housing (28)
- Urban Expansion (24)
- Urban Growth & Sprawl (38)
- Urban Growth (17)
- Land Cover (14)
- Urban Sprawl (5)
- Climate & Environmental Analysis (39)
- Remote Sensing & Image Analysis (17)
- Environmental Management & Planning (10)
- Urban Form (8)
- Streetscape & Aesthetics (7)
- Urban Design (6)
- Urban Morphology (4)

- Health & Quality of Life (34)
- Health & Well-being (13)
- Public Health (8)
- Urban Health (7)
- Environmental Management & Planning (44)
- Urban Governance & Society (43)
- Governance & Society (17)
- Urban Living & Quality of Life (22)
- Urban Environment & Sustainability (19)
- Green Spaces (12)
- Walkability (9)
- Social and Community (7)
- Streetscape Analysis (7)
- Urban Vitality (6)
- Mental Health (6)

- Disaster Management (35)
- Flood Risk (7)
- Flood Management (6)
- Landslide Risk (2)
- Urban Safety & Resilience (54)
- Security & Safety (42)
- Urban Safety & Security (15)
- Cybersecurity (9)
- Crime Prevention (6)
- Fire Detection (6)
- Surveillance (4)
- Emergency Management (2)

Research Trends

- Smart Urban Infrastructure
- Urban Intelligence & Data Analytics
- Smart Mobility Systems
- Urban Planning & Governance
- Smart Services & Security
- Urban Environment & Ecology
- Air Quality & Emissions
- Urban Climate & Heat
- Green & Blue Infrastructure
- Energy Management
- Urban Planning for Sustainability
- Public & Shared Transportation
- Intelligent Transportation Systems
- Urban Mobility Patterns
- Autonomous & Connected Vehicles
- Land Use Planning
- Urban Growth Dynamics
- Environmental Planning
- Urban Form & Design
- Health & Well-being
- Urban Governance & Policy
- Quality of Life & Livability
- Social Dynamics
- Disaster Management
- Urban Safety & Security
- Emergency Response

Megatrends

- Digital & Smart Cities (n=2,052)
- Climate & Environment (n=1,646)
- Mobility & Transportation (n=539)
- Urban Development (n=506)
- Social Equity & QoL (n=470)
- Resilience & Safety (n=228)

Root

AI in Urban Studies (N=5,441)

Legend:
- Digital & Smart Cities (37.7%)
- Climate & Environment (30.3%)
- Mobility & Transport. (9.9%)
- Urban Development (9.3%)
- Social Equity & QoL (8.6%)
- Resilience & Safety (4.2%)