



UNIVERSITY
OF TRENTO - Italy

IEEE Second International Smart Cities Conference (ISC2 2016)

Improving the citizens quality of life
12-15 September 2016 | Trento - Italy



Papers schedule

Smart City Lab – Chair: Victor M. Larios

G.1 - Tue 13.09.2016 - 11:45-13:15 Room B104

paper #	type	title	authors
1570270146	full	Smart City Platforms on Multitier Software-Defined Infrastructure Cloud Computing	Hadi Bannazadeh; Ali Tizghadam; Alberto Leon-Garcia
1570277714	short	Towards Two-Tier Citizen Sensing	Julio Borges; Matthias Budde; Oleg Peters; Till Riedel; Michael Beigl
1570278999	full	Improving Public Safety at Fingertips: A Smart City Experience	Marcel Mendonça; Bruno Moreira; Jazon Coelho; Nelio Cacho; Frederico Lopes; Everton Cavalcante; Adelson Dias; José Lucas Ribeiro; Emiliano Loiola; Daniela Estaregue; Brunna Moura
1570281338	full	Living Labs for Smart Cities A use case in Guadalajara City to foster innovation and develop citizen-centered solutions	Victor M. Larios; Leopoldo Gomez; Olga Mora; Rocio Maciel; Natalia Villanueva-Rosales
1570281416	full	A Smart City Initiative: The Case of Natal	Nelio Cacho; Frederico Lopes; Everton Cavalcante; Irani Santos
1570298048	abstract/demo	Semantic-enhanced Living Labs for better interoperability of Smart Cities solutions	Natalia Villanueva-Rosales; Luis Garnica-Chavira; Victor M. Larios; Leopoldo Gomez; Emmanuel Aceves

Smart City sensing – Chair: Yacine Ghamri Doudan

G.2 - Wed 14.09.2016 - 15:00-16:30 Room B103

paper #	type	title	authors
1570268684	short	Some Experiences with Developing Intelligent Internet-of-Things	Mizuki Sakamoto; Tatsuo Nakajima
1570271268	full	Multi-wavelength IR Method for Monitoring Air Pollution in Cities	Sergey Fanchenko; Alexander Baranov; Alexey Savkin; Andrey Somov; Lucia Calliari
1570271285	short	Air quality monitoring by means of a miniaturized sensor onboard an autonomous wheeled rover	Luca Gugliermetti; Marco Sabatini; Giovanni B Palmerini; Marco Carpentiero
1570278234	full	UrbanSense: an Urban-scale Sensing Platform for the Internet of Things	Yunior Luis; Pedro Miguel Santos; Tiago Lourenco; Carlos Pérez-Penichet; Tânia Calçada; Ana Aguiar
1570281294	short	A new method to restore the water quality level through the use of electric boats	Valentina Lisena; Maurizio Paschero; Valeria Gentile; Paolo Amicucci; Antonello Rizzi; Fabio Massimo Frattale Mascioli
1570294614	abstract/demo	Designing a smart city playground: real-time air quality measurements and visualization in the City of Things testbed	Bart Braem; Steven Latré; Philip Leroux; Piet Demeester; Tanguy Coenen; Pieter Ballon



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Health and Well-being Track I – co-Chairs: Giandomenico Nollo, Agusti Solanas

T2.1 - Tue 13.09.2016 - 11:45-13:15 Room B102

paper #	type	title	authors
1570270257	short	An IoT-inspired Cloud-based Web Service Architecture for e-Health Applications	Loreto Pescosolido; Riccardo Berta; Lorenzo Scalise; Gian Marco Revel; Alessandro De Gloria; Gianni Orlandi
1570281234	full	Interconnecting Processes through IoT in a Health-Care Scenario	Monica Vitali; Barbara Pernici
1570271358	short	An Electromagnetic Contactless System for Apnea Monitoring	Valerio Petrini; Valentina Di Mattia; Giovanni Manfredi; Alfredo De Leo; Paola Russo; Graziano Cerri; Lorenzo Scalise
1570271596	full	An Inverse Method for Tracer Kinetic Modelling with Positron Emission Tomography (PET) using Hybrid Method	Natkunam Kokulan; Yang Hai; E. George; Choi-Hong Lai; Li Liu
1570278168	short	PerKApp: a Context Aware Motivational System for Healthier Lifestyles	Tania Bailoni; Mauro Dragoni; Claudio Eccher; Marco Guerini; Rosa Maimone

Health and Well-being Track II – co-Chairs: Antoni Martinez-Balleste, Li Liu

T2.2 - Tue 13.09.2016 - 17:00-18:30 Room B102

paper #	type	title	authors
1570278377	full	Two-dimensional Collaborative Filtering Approach to Wireless Channel Characterization in Medical Complex Scenarios	Fran Casino; Peio Lopez Iturri; Erik Aguirre; Leyre Azpilicueta; Francisco Falcone; Edgar Batista; Agusti Solanas
1570278439	short	AUSILIA: Assisted Unit for Simulating Independent Living Activities	Tommaso Pisoni; Nicola Conci; Francesco G.B. De Natale; Mariolino De Cecco; Giandomenico Nollo; Antonio Frattari; Giovanni Guandalini
1570278855	short	Cloud computing for s-Health and the data protection challenge: Getting ready for the General Data Protection Regulation	Rossana Ducato
1570271314	short	City4Age: Smart Cities for Health Prevention	Paolo Paolini; Nicoletta Di Blas; Sergio Copelli; Franco Mercalli
1570281306	short	Social media for clinical management of neurologic diseases: an HTA approach	Emanuele Torri; Nicola Pace; Domenico Marco Bonifati; Giandomenico Nollo



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Health and Well-being Track III – co-Chairs: Li Liu, Giandomenico Nollo T2.3 - Wed 14.09.2016 - 15:00-16:30 Room B102

paper #	type	title	authors
1570281337	full	Smart Health Methodology and Services Powered by Leading Edge Cognitive Services Consumed in the Cloud	Manuel Avalos; Pablo Salazar; Victor M. Larios; Hector Duran-Limon
1570281291	short	Optimized Algorithms for Atrial Fibrillation Detection by Wearable Tele-Holter Devices	Italo Agustin Marsili; Michela Masè; Valeria Pisetta; Enzo Ricciardi; Alberto Oliver Andrighetti; Flavia Ravelli; Giandomenico Nollo
1570281298	short	The e-Cardiac Rehabilitation Service: An integrated system for Home-Care Cardiac Rehabilitation	Valeria Pisetta; Elisa Morganti; Michela Masè; Italo Agustin Marsili; Alberto Adams; Giandomenico Nollo
1570271347	short	Implementation of an "At-Home" e-Health System Using Heterogeneous Devices	Lorenzo Scalise; Filippo Pietroni; Sara Casaccia; Gian Marco Revel; Andrea Monteriù; Mariorosario Prist; Sauro Longhi; Loreto Pescosolido

Privacy and Security Track – Chair: Edita Bajramovic T3.1 - Tue 13.09.2016 - 11:45-13:15 Room B101

paper #	type	title	authors
1570271143	short	Analysis to define management of identities access control of security processes for the registration civil from Ecuador	Segundo Moisés Toapanta Toapanta; Luis Enrique Mafla Gallegos; José Antonio Orizaga Trejo
1570271375	full	Forensic Readiness of Smart Buildings: Preconditions for Subsequent Cybersecurity Tests	Edita Bajramovic; Karl Waedt; Antonio Ciriello; Deeksha Gupta
1570271426	full	Towards enabling privacy preserving smart city apps	Oleksiy Mazhelis; Antti Hämäläinen; Tomi Asp; Pasi Tyrväinen
1570271499	full	Design and Evaluation of Resilient Infrastructures Systems for Smart Cities	Jesus Pacheco; Cihan Tunc; Salim Hariri
1570279038	short	Enabling Mutually Private Location Proximity Services in Smart Cities: A Comparative Assessment	Michael Solomon; Vaidy Sunderam; Li Xiong; Ming Li
1570281327	full	Keyless Car Sharing System: A Security and Privacy Analysis	Iraklis Symeonidis; Mustafa Asan Mustafa; Bart Preneel



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Smart Energy Systems Track I – co-Chairs: Daniele Fontanelli, Carlo Alberto Nucci

T4.1 - Tue 13.09.2016 - 8:45-10:15 Room B102

paper #	type	title	authors
1570278924	full	Energy Storage System for Grid Connection and Island Operation	Rodrigo A. Alexandre; Sonia F. Pinto; João J. Santana
1570278738	full	Fixture Identification from Aggregated Hot Water Consumption Data	Yan Gao; Daqing Hou; Sean Banerjee
1570271466	short	Energy Ecosystem in Smart Cities - Privacy and Security solutions for Citizen's engagement in a Multi-Stream Environment	Mihai Sanduleac; Mircea Eremia; Lucian Toma; Lola Alacreu; Lucas Pons; Massimo Cresta; Marco Paulucci
1570278565	full	Multiple Metrics-OLSR in NAN for Advanced Metering Infrastructures	Yakubu Tsado; Kelum A.A. Gamage; David Lund; Bamidele Adebisi
1570271400	full	Fast Fault Location for Fast Restoration of Smart Electrical Distribution Grids	Alireza Bahmanyar; Abouzar Estebarsari; Enrico Pons; Edoardo Patti; Sadegh Jamali; Ettore Bompard; Andrea Acquaviva

Smart Energy Systems Track II – co-Chairs: Carlo Alberto Nucci, Sonia Pinto

T4.2 - Tue 13.09.2016 - 15:00-16:30 Room B102

paper #	type	title	authors
1570266398	short	A Framework for Thermal Parameter Identification in a Smart Buildings Context	Sigmundo Preissler, Jr
1570271457	full	The Adequacy of LoRaWAN on Smart Grids: A Comparison with RF Mesh Technology	Hamilton da Gama Schroder Filho; José Pissolato Filho; Vinicius Luciano Moreli
1570263984	full	Crowdsourced Electricity Demand Forecast	Kenneth Humphreys; Jia Yuan Yu
1570278575	full	Industrial Waste Heat Recovery Strategies in Urban Contexts: a Performance Comparison	Luca Battisti; Marco Cozzini; David Macii
1570278895	full	G2V and V2G Electric Vehicle Charger for Smart Grids	Ricardo Gago; Sonia Pinto; José Silva



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Smart Energy Systems Track III – Chair: Sonia Pinto T4.3 - Wed 14.09.2016 - 11:45-13:15 Room B102

paper #	type	title	authors
1570271229	short	Improved throughput for Power Line Communication (PLC) for Smart Meters using Fog Computing based Data aggregation approach	Mohamed Saleem Haja Nazmudeen; Au Thien Wan; Seyed M. Buhari
1570271445	short	Street lighting monitoring at cabinet level using open-source tools: a real scenario	Adamo Ferro
1570277401	full	Zero-Energy Wake up for Power Line Communications in Smart Cities	Parian Golchin; Pietro Tosato; Davide Brunelli
1570278693	full	Watermill principle applied to energy harvesting for sensor nodes in underground environments	Alessandro Andreadis; Alessandro Pozzebon; Pietro Vaccarella
1570278930	full	Performance of Phasor Measurement Units for Power Quality Event Detection in Urban Distribution Grids	David Macii; Daniele Fontanelli; Dario Petri

Smart Government Track I – Chair: Andrea Molinari T5.1 - Tue 13.09.2016 - 17:00-18:30 Room B104

paper #	type	title	authors
1570271384	full	Automatic Assets Identification for Smart Cities - Prerequisites for Cybersecurity Risk Assessments	Karl Waedt; Antonio Ciriello; Mithil Parekh; Edita Bajramovic
1570271411	full	Back to public: rethinking the public dimension of institutional and private initiatives on an urban data platform	Lucia Lupi; Alessio Antonini; Guido Boella; Claudio Schifanella; Luigi Sanasi
1570270717	full	Achieving Broadband-based Smart City Services in Connected Communities	Jayashree Ramanathan; Prasad Calyam
1570271476	full	Hotspot mapping for Perception of Security	Francisco Gomez; Andres Torres; Juan Galvis; Jorge E. Camargo; Oscar Martinez
1570278874	short	Exploring alternative participatory budgeting approaches as means for citizens engagement: the case of energy	Andrea Capaccioli; Giacomo Poderi; Mela Bettega; Vincenzo D'Andrea



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Smart Government Track II – Chair: Andrea Molinari T5.2 - Wed 14.09.2016 - 15:00-16:30 Room B104

paper #	type	title	authors
1570281398	full	SMART: A process-oriented methodology for resilient smart cities	Monjur Mourshed; Antonio Bucchiarone; Fahmida Khandokar
1570281096	full	A model to promote citizen driven government in a Smart City: Use case at GDL Smart City	Gonzalo R. Ceballos; Victor M. Larios
1570271388	short	Beyond Food Sharing: Supporting Food Waste Reduction with ICTs	Aaron Ciaghi; Adolfo Villafiorita
1570278899	full	City of Things: an Integrated and Multi-Technology Testbed for IoT Smart City Experiments	Steven Latré; Philip Leroux; Tanguy Coenen; Bart Braem; Pieter Ballon; Piet Demeester
1570278974	short	Web-based 3D Urban Decision Support through Intelligent and Interoperable Services	Shaun Howell; Jean-Laurent Hippolyte; Bejay Jayan; Jonathan Reynolds; Yacine Rezgui
1570281007	full	Synergy Between Smart Cities' Hackathons and Living Labs as a Vehicle for Accelerating Tangible Innovations on Cities	Maya Alba; Manuel Avalos; Carlos Guzmán; Victor M. Larios

Smart Transportation Track I - co-Chairs: Abdel-Hamid Soliman, Guohui Zhang T6.1 - Tue 13.09.2016 - 8:45-10:15 Room B101

paper #	type	title	authors
1570280134	full	GHOST: A Novel Approach to Smart City Infrastructures Monitoring Through GNSS Precise Positioning	Srdjan Tadic; Alfredo Favenza; Christoforos Kavadias; Vassilis Tsagaris
1570269665	full	Investigating Vehicle-to-Vehicle Communication for Cooperative Car Parking: the CoPark Approach	Ali Aliedani; Seng W Loke; Anirudhha Desai; Prajakta Desai
1570271138	full	The Correlation between Human Mobility and Socio-demographic in Megacity	Kaiqiang Xie; Hui Xiong; Chunyan Li
1570271142	short	Impact of Green Signal Countdown Devices on Driving Behavior using Cellular Automaton Model	Kaiqiang Xie; Hui Xiong; Haohao Li; Qingyue Pan
1570270075	short	Towards Privacy-Neutral Travel Time Estimation from Mobile Phone Signalling Data	Thierry Derrmann; Raphael Frank; Sébastien Faye; German Castignani; Thomas Engel
1570296080	abstract/demo	New Progress of DRIVE Net: An E-science transportation platform for data sharing, visualization, modeling, and analysis	Zhiyong Cui; Shen Zhang; Kristian C. Henrickson; Yin Hai Wang



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Smart Transportation Track II – co-Chairs: Annapaola Marconi, Ali Bagheri T6.2 - Tue 13.09.2016 - 15:00-16:30 Room B101

paper #	type	title	authors
1570271213	full	Micro-interventions in urban transportation from pattern discovery on the flow of passengers and on the bus network	Carlos Caminha; Vasco Furtado; Vladia Pinheiro; Caio Silva
1570271322	full	A Fleet Management service for Smart Cities: the S2-Move project	Alessandro Salvi; Manuela Tufo; Eduard Natale
1570271339	full	Understanding commuting to accompany work organisations' and employees' behaviour change	Stefania Castellani; Tommaso Colombino; Antonietta Grasso; Matthieu Mazzeqa
1570271398	short	Towards Building Real-Time, Convenient Route Recommendation System for Public Transit	Garvita Bajaj; Rachit Agarwal; Georgios Bouloukakis; Pushpendra Singh; Nikolaos Georgantas; Valerie Issarny
1570271424	full	An algorithm for initial public transport network design over geospatial data	Maxim Shcherbakov; Alexey Golubev
1570278894	short	Complementing Smart City Innovation Platforms with technical harmonization	Gorazd Marinic; Nils Walravens; Heritiana Ranaivoson

Smart Transportation Track III – co-Chairs: Annapaola Marconi, Giuseppe Valetto T6.3 - Wed 14.09.2016 - 11:45-13:15 Room B101

paper #	type	title	authors
1570271211	full	Analysing driving patterns of electric taxi based on the location of charging station in urban area	Yongjun Ahn; Chulmin Jun; Hwasoo Yeo
1570271456	full	Fast Visual Object Tracking via Distortion-Suppressed Correlation Filtering	Tianyang Xu; Xiao-Jun Wu
1570271507	full	SMARTBIKE: Policy making and decision support for Bike Share systems	Sudha Ram; Fan Dong; Faiz Currim; Yun Wang; Ezequiel Dantas; Luiz Alberto Saboia
1570271512	full	A Big Data Approach for Smart Transportation Management on Bus Network	Yun Wang; Sudha Ram; Faiz Currim; Ezequiel Dantas; Luiz Alberto Saboia
1570278326	full	Reservation-based Multi-Objective Smart Parking Approach for Smart Cities	Naourez Mejri; Mouna Ayari; Rami Langar; Leila Azouz Saidane



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Smart Transportation Track IV – co-Chairs: Yin Hai Wang, Guohui Zhang T6.4 - Wed 14.09.2016 - 15:00-16:30 Room B101

paper #	type	title	authors
1570271437	full	Video Analysis for Yellow Box Junction Violation: Requirements, Challenges and Solutions	Rami Alkhwajji; Mohamed Sedky; Abdel-Hamid Soliman
1570278982	full	Incentivization Schemes for Vehicle Allocation in One-Way Vehicle Sharing Systems	Alexandros Angelopoulos; Damianos Gavalas; Charalampos Konstantopoulos; Damianos Kyriadis; Grammati Pantziou
1570278983	full	Autoregressive Dynamic Mechanism for Urban Area Microscopic Traffic Flow Models	Felipe Tejada; Claudio Estevez; Aleksejs Zacepins; Vitalijs Komasilovs
1570271368	full	A scheduling optimization model for minimizing the energy demand of a building using electric vehicles and a micro-turbine	Dimitrios Thomas; Olivier Deblecker; Ali Bagheri; Christos S. Ioakimidis
1570270008	full	Stochastic optimization of public transport schedules to reduce transfer waiting times	Sofia Michel; Boris Chidlovskii
1570298178	abstract/demo	CrowdSensing for Smart Mobility through a Service-Oriented Architecture	Andrea Melis; Silvia Mirri; Catia Prandi; Marco Prandini; Paola Salomoni; Franco Callegati

Big Data and Open Data Track I – Chair: Xiao-Jun Wu T1.1 - Tue 13.09.2016 - 11:45-13:15 Room B103

paper #	type	title	authors
1570270993	full	Addressing exploitability of Smart City data	Enrico Daga; Mathieu d'Aquin; Alessandro Adamou; Enrico Motta
1570271345	full	Estimating Urban Mobility with Open Data: A Case Study in Bologna	Valeria Caiati; Luca Bedogni; Luciano Bononi; Francesco Ferrero; Marco Fiore; Andrea Vesco
1570281304	full	Rights Enforcement and Licensing Understanding for RDF Stores Aggregating Open and Private Data Sets	Pierfrancesco Bellini; Lorenzo Bertocci; Filippo Betti; Paolo Nesi
1570271511	short	The Well-Informed City - A Decentralized, Bottom-Up Model for a Smart City Service Using Information and Self-Organization	Eyal Feder-Levy; Efrat Blumenfeld-Liebertal; Juval Portugali
1570277873	full	Block-based Realtime Big-Data Processing for Smart Cities	Dario Bonino; Federico Rizzo; Claudio Pastrone; Jose Angel Carvajal Soto; Matts Ahlsen; Mathias Axling
1570271433	short	Integrated mass surveillance system for large scale events	Attila Nagy; Vilmos Simon



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Big Data and Open Data Track II – co-Chairs: Andrea Molinari, Xiao-Jun Wu T1.2 - Wed 14.09.2016 - 11:45-13:15 Room B103

paper #	type	title	authors
1570279008	full	A Big Data Analytics System to Analyze Citizens' Perception of Security	Jorge E. Camargo; Carlos Torres; Oscar Martinez; Francisco Gomez
1570271422	full	Expenditure, Revenue and Taxes - Towards a Standard for Representing City Finance Open Data	Zhongxiu Wang; Mark Fox
1570281330	full	Social Smart City: A Platform to Analyze Social Streams in Smart City Initiatives	Arthur Souza; Mickael Figueredo; Nélio Cacho; Daniel Araújo; Jazon Coelho; Carlos A. Prolo
1570271019	full	FPVI: A Scalable Method for Discovering Privacy Vulnerabilities in Microdata	Aris Gkoulalas-Divanis; Stefano Braghin; Spiros Antonatos
1570278408	full	A Framework for IoT Service Experiment Platforms in Smart-City Environments	Mervi Hämäläinen; Pasi Tyrväinen

SPECIAL SESSIONS

Socio-Technical Challenges in Smart City Development I – co-Chairs: Miguel Nunes, Guo Chao Alex Peng SS8.1 - Tue 13.09.2016 - 15:00-16:30 Room B103

paper #	type	title	authors
1570282122	full	Identifying user requirements of wearable healthcare technologies for Chinese ageing population	Guochao Peng; Liliana M Sepulveda Garcia; Miguel Nunes; Ning Zhang
1570281312	full	An Agent-based Model of the Earth System & Climate Change	Yassine Baghoussi; Pedro J.R.M Campos; Rosaldo J.F. Rossetti
1570278317	short	Towards Talkin'Piazza: Engaging Citizens through Playful Interaction with Urban Objects	Irene Celino; Gloria Re Calegari; Andrea Fiano
1570268805	full	Understanding Happiness in Cities using Twitter: Jobs, Children, and Transport	Weisi Guo; Neha Gupta; Ganna Pogrebna; Stephen Jarvis
1570270543	full	How Smart City Supports the Travel of Elderly Care Communities	Enda Wang; Jing Shi



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Socio-Technical Challenges in Smart City Development II – co-Chairs: Aleksas Mamkaitis, Mohammad Abu Matar SS8.2 - Tue 13.09.2016 - 17:00-18:30 Room B103

paper #	type	title	authors
1570271401	short	Smart Cities and Technical Literacy for an Enlightened Citizenry and the Future	Thad B. Welch; Mike Montoya; Andrés Valdepeña Delgado
1570277867	full	Towards a Software Defined Reference Architecture for Smart City Ecosystems	Mohammad Abu Matar
1570278247	full	Applying social norms to high-fidelity pedestrian and traffic simulations	Marco Robol; Paolo Giorgini; Paolo Busetta
1570287058	short	A Privacy-Preserving and Power-Efficient Bicycle Tracking Scheme for Theft Mitigation	Arne Bochém; Kevin Freeman; Martin Schwarzmaier; Omar Alfandi; Dieter Hogrefe
1570278978	short	Urban Enterprise: a review of Smart City frameworks from an Enterprise Architecture perspective	Aleksas Mamkaitis; Marija Bezbradica; Markus Helfert
1570278832	full	Sensory stimulation for human guidance in robot walkers: a comparison between haptic and acoustic solutions	Federico Moro; Antonella De Angeli; Daniele Fontanelli; Roberto Passerone; Domenico Prattichizzo; Luca Rizzon; Stefano Scheggi; Stefano Targher; Luigi Palopoli

Smart Handling of Passenger and Freight Rail Transportation – Chair: Bernardo Tellini SS7.1 - Tue 13.09.2016 - 8:45-10:15 Room B104

paper #	type	title	authors
1570281311	full	Automatic 2D-3D Vision Based Assessment of the Attitude of a Train Pantograph	Erika Di Stefano; Emanuele Ruffaldi; Carlo Alberto Avizzano
1570283758	full	Exploiting CCTV Camera System for Advanced Passenger Services On-board Trains	Sergio Saponara; Luca Pilato; Luca Fanucci
1570286726	short	Exploiting Residual Magnetization in Bearing Components to Characterize Bearing Rotation	Massimo Macucci; Paolo Marconcini; Mauro Bologna; Bernardo Tellini
1570270646	short	CIGO! Mobility Management Platform for Growing Efficient and Balanced Smart City Ecosystem	Petar Mrazovic; Ivan De La Rubia; Jordi Urmeneta; Carlos Balufo; Ricard Tapias; Mihhail Matskin; Josep L. Larriba-Pey
1570269204	full	London Underground: Neighbourhood Centrality and Relation to Urban Geography	Weisi Guo; Xueke Lu
1570278585	full	OPTIBOX - Software Tool for the OPTImal distribution of hot BOx aXle detectors	Carlos Saborido Amate; Cristiana Bonifacio; Cecília Vale



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Smart Campuses – co-Chairs: Stefano Bracco, Federico Delfino

SS6.1 - Tue 13.09.2016 - 15:00-16:30 Room B104

paper #	type	title	authors
1570279861	full	Evaluating the Resilience of the Bottom-up Method used to Detect and Benchmark the Smartness of University Campuses	Carlo Giovannella; Diana Andone; Mihai Dascalu; Elvira Popescu; Matthias Rehm; Oscar Mealha
1570278222	full	Distributed optimal power flow for islanded microgrids: an application to the Smart Polygeneration Microgrid of the Genoa University	Luca Buono; Eleonora Riva Sanseverino; Maria Luisa Di Silvestre; Stefano Bracco; Federico Delfino
1570278557	full	Smart Microgrids in Smart Campuses with Electric Vehicles and Storage Systems: Analysis of Possible Operating Scenarios	Morris Brenna; Federica Foiadelli; Michela Longo; Stefano Bracco; Federico Delfino
1570278322	full	Optimal planning of the energy production mix in smart districts including renewable and cogeneration power plants	Stefano Bracco; Federico Delfino; Mansueto Rossi; Michela Robba; Luisa Pagnini
1570281308	full	Wireless Sensor System for Detection of Occupants to Increase Building Energy Efficiency	Jonathan Tefft; Nicholas J. Kirsch; Travis Adams; Tat Fu
1570280849	full	An optimization model for the integration of electric vehicles and smart grids: Problem definition and experimental validation	Federica Laureri; Luca Puliga; Michela Robba; Federico Delfino; Gemma Odena Bultò

Low-Power Wireless Networks and Sensors for Smart Cities I – Chair: Leonardo Lizzi

SS5.1 – Tue 13.09.2016 - 17:00-18:30 Room B101

paper #	type	title	authors
1570278865	full	SmartSEAL: A ROS based Home Automation Framework for Heterogeneous Devices Interconnection in Smart Buildings	Enrico Bellocchio; Gabriele Costante; Silvia Cascianelli; Paolo Valigi; Thomas Ciarfuglia
1570278376	full	A Robust Semi-Semantic Approach For Visual Localization In Urban Environment	Silvia Cascianelli; Gabriele Costante; Enrico Bellocchio; Paolo Valigi; Mario Luca Fravolini; Thomas Ciarfuglia
1570278585	short	Ambient RF Power Harvesting: Application to Remote Supply of a Batteryless Temperature Sensor	Hakim Takhedmit



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Low-Power Wireless Networks and Sensors for Smart Cities II – Chair: Leonardo Lizzi SS5.2 – Wed 14.09.2016 - 08:45-10:15 Room B102

paper #	type	title	authors
1570278194	full	Dynamic group management with Bluetooth Low Energy	Davide Giovanelli; Bojan Milosevic; Csaba Kiraly; Amy L Murphy; Elisabetta Farella
1570278251	full	Low-cost, Long-range Open IoT for Smarter Rural African Villages	Congduc Pham; Abdur Rahim; Philippe Cousin
1570278770	full	Energy-efficient design of an always-on smart visual trigger	Manuele Rusci; Davide Rossi; Michela Lecca; Massimo Gottardi; Luca Benini; Elisabetta Farella
1570278837	short	Design of Antennas Enabling Miniature and Energy Efficient Wireless IoT Devices for Smart Cities	Leonardo Lizzi; Fabien Ferrero; Christophe Danches; Stephane Boudaud

Enabling technologies for smart building management – Chair: Stefano Rinaldi SS4.1 - Wed 14.09.2016 - 8:45-10:15 Room B101

paper #	type	title	authors
1570271396	full	Exploiting Internet of Things and Building Information Modeling Framework for Management of Cognitive Buildings	Daniela Pasini; Silvia Mastrolembo; Stefano Rinaldi; Paolo Bellagente; Alessandra Flammini; Angelo Ciribini
1570271436	full	Progressive Energy Retrofit for the educational building stock in a Smart City	Giuseppe Di Giuda; Valentina Villa; Paolo Piantanida; Lavinia Tagliabue; Stefano Rinaldi; Enrico De Angelis; Angelo Ciribini
1570278167	full	Bi-Directional Interactions between Users and Cognitive Buildings by means of Smartphone App	Stefano Rinaldi; Franz Bittenbinder; Che Liu; Paolo Bellagente; Lavinia Tagliabue; Angelo Ciribini
1570271373	full	Coupling Building Thermal Network and Control System, the First Step to Smart Buildings	Ali Bagheri; Veronique Feldheim; Dimitrios Thomas; Christos S. Ioakimidis
1570271410	short	A Cloud-based Framework for Smart Permit System for Buildings	Magdalini Eirinaki; Subhankar Dhar; Shishir Mathur



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Economics, Management, Organization, and Smart Cities – Chair: Roberta Cuel SS3.1 - Tue 13.09.2016 - 8:45-10:15 Room B103

paper #	type	title	authors
1570271018	short	Administrative Burdens evaluation: a smart perspective in the Province of Trento	Michele Andreaus; Luigi De Poli; Maria Michela Dickson; Giuseppe Espa
1570278876	short	Smart indicators for real estate management: Dealing with institutional logics when developing and implementing indicators for real estate sustainability	Peter Ekman; Jimmie Røndell
1570278879	full	Developing Smart Commercial Real Estate: Technology-based self-service (TBSS) in commercial real estate facilities	Peter Ekman; Randle Raggio; Steven Thompson
1570279669	full	Fully Smart Cities: Analysis of the City to Smart City transformation process	Felix Herrera Priano; Cristina Fajardo Guerra
1570281267	full	A Gamification Framework for the Long-term Engagement of Smart Citizens	Raman Kazhamiakin; Annapaola Marconi; Alberto Martinelli; Marco Pistore; Giuseppe Valetto

Decision support strategies based on wireless sensing and monitoring for smart cities management I – co-Chairs: Alessandro Polo, Federico Viani SS2.1 - Wed 14.09.2016 - 8:45-10:15 Room B104

paper #	type	title	authors
1570278229	short	Antenna System Strategies for Wireless Sensor Networks in Resource Hungry Smart Cities	Pragnan Chakravorty; Durbadal Mandal; Alessandro Polo; Federico Viani
1570278328	short	A Comparison of Human Body Compensation Models for RSSI Based Localization and Tracking	Jens Trogh; David Plets; Arno Thielens; Luc Martens; Wout Joseph
1570278932	full	Functional Resonance Analysis Method based- Decision Support tool for Urban Transport System Resilience Management	Emanuele Bellini; Paolo Nesi; Gianni Pantaleo; Alessandro Venturi
1570278422	full	An integrated framework for video surveillance in complex environments	Nicola Conci; Francesco G.B. De Natale; Stefano Messelodi; Carla Maria Modena; Marco Verza; Roberto Fioravanti
1570278708	full	Performance Assessment of a Smart Road Management System for the Wireless Detection of Wildlife Road-Crossing	Federico Viani; Alessandro Polo; Enrico Giarola; Fabrizio Robol; Guido Benedetti; Silvio Zanetti



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Decision support strategies based on wireless sensing and monitoring for smart cities management II – co-Chairs: Alessandro Polo, Federico Viani SS2.2 - Wed 14.09.2016 - 11:45-13:15 Room B104

paper #	type	title	authors
1570278717	full	Optimization Strategies for Fleet Management based on Wireless Terminals Localization in Smart Cities Scenarios	Alessandro Polo; Federico Viani; Fabrizio Robol; Andrea Massa; Silvia Marchesi; Luisa Zappini
1570278725	full	Experimental Validation of a Wireless Distributed System for Smart Public Lighting Management	Federico Viani; Alessandro Polo; Fabrizio Robol; Enrico Giarola; Adamo Ferro
1570281315	full	A Cross-Layer Framework for Sensor Data Aggregation for IoT Applications in Smart Cities	Abrar Alkhamisi; Mohamed Saleem Haja Nazmudeen; Seyed M. Buhari
1570278367	short	SPARtaCuS: Service Priority Adaptiveness for Emergency Traffic in Smart Cities using Software-Defined Networking	Rohit Abhishek; Shuai Zhao; Deep Medhi
1570278412	short	Next Generation Zero-power RFID-tag for UWB Pervasive Identification	Diego Masotti; Marco Fantuzzi; Alessandra Costanzo

CASE: Collective and Adaptive Smart Energy management in districts and neighborhoods – Chair: Monjur Mourshed SS1.1 - Wed 14.09.2016 - 8:45-10:15 Room B103

paper #	type	title	authors
1570278636	short	Understanding the Reliability of Localized Near Future Weather Data for Building Performance Prediction in the UK	Hu Du; Phil Jones; Bobo Ng
1570278753	short	Towards Understanding the Value of Decentralized Heat Pumps for Network Services in Germany: Insights Concerning Self-Consumption and Secondary Reserve Power	Marcus Brennenstuhl; Dirk Pietruschka; Ursula Eicker; Malcolm Yadack
1570280552	full	Ontology-based Demand-Side Flexibility Management in Smart Grids using a Multi-Agent System	Jean-Laurent Hippolyte; Shaun Howell; Baris Yuce; Monjur Mourshed; Hassan Sleiman; Meritxell Vinyals; Loïs Vanhée
1570281303	full	Preserving Prosumer Privacy in a District Level Smart Grid	Baris Yuce; Monjur Mourshed; Yacine Rezgui; Omer Rana
1570281307	full	Maximising Value for Local Flexibility Management in Low Voltage Distribution Networks	Patrick Lynch; Jamie Power; Richard Hickey; Derek Kelly; Thomas Messervey; Juan Espeche; Youssef Oualmakran



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Workshop "IRENE: resilient and secure urban power systems" - co-Chairs: Oliver Jung, Andrea Ceccarelli, Eng Tseng Lau

Thu. 15.09.2016 - 10:45-12:30 Room B104

paper #	type	Title	authors
1570289816	full	Analysing Non-Malicious Threats to Urban Smart Grids by Interrelating Threats and Threat Taxonomies	Alexandr Vasenev; Lorena Montoya
1570293385	full	Outage Response in Microgrids using Demand Side Management	Sandford Bessler; Daniel Hovie; Oliver Jung
1570294269	full	Effect of Information Presentations on Consumer Emotions to Induce Power Saving Actions	Tomonori Nakayama; Hirotaka Osawa; Shinichiro Okushima; Hirohisa Aki
1570294281	full	Resilience of Urban Smart Grids Involving Multiple Control Loops	Jacob Madsen; Jayakrishnan Pillai; Hans-Peter Schwefel
1570294288	full	A Privacy Preserving Approach to Energy Theft Detection in Smart Grids	Christopher Richardson; Nicholas Race; Paul Smith