

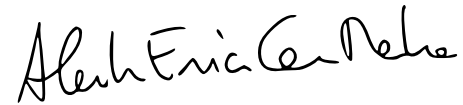
Curriculum Vitae

Alessandro Enrico Cesare Redondi

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Personal Data

First name Alessandro
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Education

01/2011 - 02/2014 Ph.D in Information Engineering (summa cum laude) at the Department of Electronics, Information and Bioengineering, Politecnico di Milano, Italy.
Thesis title: “Energy-aware Visual Analysis for Wireless Multimedia Sensor Networks”

09/2012 – 03/2013 Visiting student at the Department of Electronic and Electrical Engineering, University College of London with prof. Yiannis Andreopoulos.

09/2006 – 07/2009 M.Sc. in Computer Engineering (summa cum laude) at Politecnico di Milano, Italy
Thesis title: “Geometric Calibration of Distributed Microphone Arrays”

09/2003 – 09/2006 B.Sc. in Computer Engineering at Politecnico di Milano, Italy

Professional Activities

From 01/2016 Assistant Professor at the Department of Electronics, Information and Bioengineering, Politecnico di Milano

From 07/2018 Habilitation as “Associate Professor” in Telecommunications Engineering (Italian National Scientific Habilitation procedure, ASN 2016-2018)

- 07/2018 – 08/2018 Visiting researcher at the Grupo de Redes de Computadores, Universitat Politècnica de València with prof. Pietro Manzoni.
- 02/2014 – 12/2015 Post-doctoral researcher at the Advanced Network Technologies Lab. (ANTLab), Politecnico di Milano, Italy.
- 10/2009 – 12/2010 Research assistant at the Advanced Network Technologies Lab. (ANTLab). Design and development of an integrated system based on Wireless Sensor Networks for patient monitoring, localization and tracking.
- 01/2009 – 07/2009 Software developer for Inden S.a.S. Development and integration of a biomedical signal processing software plug-in for monitoring intracranial pressure.

Teaching Activities

- From 03/2018 Teacher for the course “Wireless Internet”
M. Sc. in Computer/Telecommunication Engineering
Politecnico di Milano (Campus Leonardo)
Course taught in English – Latest students’ evaluation: 3.6/4.0 (Faculty avg.: 3.1/4.0)
- From 10/2017 Teacher for the course “Internet of Things”
M.Sc. in Computer Engineering
Politecnico di Milano (Como Campus)
Course taught in English – Latest students’ evaluation: 3.2/4.0 (Faculty avg.: 3.1/4.0)
- 10/2017 – 01/2018 Teacher for the course “Network Traffic Measurements and Analysis”
Ph.D. in Information Technology
Politecnico di Milano
Course taught in English
- 03/2019 Teacher for the course “Machine Learning for Networking”
Open participation course, Politecnico di Milano
- 04/2018 Teacher for the course “Learn your Way - Machine Learning for Navigation”
Open participation course, Politecnico di Milano
- 07/2017 – 02/2018 Teacher for the course “IoT and Connectivity”
Master Bosch Industry 4.0 Talent Program
- 10/2015 – 09/2017 Teacher for the course “Fundamentals of Communication Networks”
M. Sc. in Telecommunication Engineering
Politecnico di Milano (Campus Leonardo)
Course taught in English – Latest students’ evaluation: 3.6/4.0 (Faculty avg.: 3.1/4.0)
- from 2011 Teaching assistant for several courses (Internet Infrastructures and protocols, Internet of Things, Multimedia Signal Processing, Fundamentals of Internet and Networking) of the B.Sc and M.Sc. in Computer/Telecommunication Engineering at Politecnico di Milano (Leonardo, Como and Cremona campus)

Research Activities

My research is currently focused on two main areas: Network Data Analysis and IoT systems.

Network Data Analysis: analysis of data collected from edge network devices (access points and routers) or captured through wireless sniffers. Using machine-learning inspired tools and methodologies, the main goal of this research line is to extract valuable information from the captured traffic traces. Examples of such information are: user behavior characterization [J14], user density estimation and localization [J20], device characterization [C29], traffic characterization and prediction for network optimization purposes [C39], radio maps interpolation and prediction [J13][C41], QoE prediction [C43].

IoT systems: my research is also focused on all aspects related to IoT systems, including (i) the performance evaluation of short-range and long-range communication technologies [J16][J18]; (ii) the design and implementation of innovative IoT sensor system prototypes [J7][J20]; (iii) the design and implementation of novel application-layer protocols [C38][C39][D10]; (iv) the implementation of complete end-to-end IoT-based services [J19][C30][C26], with particular interest for real-time Indoor Localization Systems [J2][C13] and Visual Sensor Networks [J3][J6][J17]. Most of the results in this area have been implemented in working demonstrators [D1-D10].

Research Projects

Acronym	Title	Period	Funding Scheme	Role
SPOTLIGHT	Single Point Of aTtachment communications empowered by cLoud computing and bIG data analytics	2017/ 2020	H2020-MSCA-ITN-2016	Scient. Investigator
SURF	Smart Urban Routing for FIESTA -IoT	2017/ 2018	H2020-ICT-2014-1	Coordinator
ACT5G	Anticipatory Networking Technique in 5G and Beyond	2015/ 2019	H2020-MSCA-ITN	Scient. Investigator
GreenEyes	Networked energy-aware visual analysis	2012/ 2015	FP7-ICT-2011-C FET-Open Y-E	WP Leader
GreenTouch BCG ²	Beyond Cellular Green Generation	2010/ 2015	Private Consortium	Scient. Investigator
LAURA	Localization And Ubiquitous Monitoring of pAtients for health care support	2009/ 2011	Young Researcher Grant - PoliMi	Scient. Investigator
SCENIC	Self-Configuring ENvironment aware Intelligent aCoustic sensing	2009/ 2011	FP7-ICT-2009-C FET-Open	Scient. Investigator

Since 2015, I've been involved in several privately funded research activities related to IoT or Machine Learning and Data Analysis with the following companies: Vodafone Italia, Bosch, A2A Smart City, IQ Consulting SRL, Weir-Gabbioneta SRL.

Student supervision

Since 2015, I have directly supervised more than 30 M.Sc. theses in Computer Science and Telecommunication engineering. I am currently supervising/co-supervising 4 Ph.D. students.

Publications

- 20 journal papers, more than 40 conference papers, 6 paper awards
- H-Index 18; i10-Index 28; 1000 citations (Google Scholar)

International Journal Papers

[J20] E. LONGO, A. REDONDI, M. CESANA, “Accurate Occupancy Estimation with WiFi and Bluetooth/BLE packet capture”, *Computer Networks*, Vol. 163, November 2019

[J19] A. PIMPINELLA, A. REDONDI, M. CESANA, “Walk This Way! An IOT-based Urban Routing System for Smart Cities”, *Computer Networks*, Vol. 162, October 2019

[J18] J. ORTIN, A. REDONDI, M. CESANA, “Augmenting LoRaWAN Performance with Listen Before Talk”, *IEEE Transactions on Wireless Communications*, Vol 18, Issue 6, June 2019

[J17] A. REDONDI, M. CESANA, L.FRATTA, A.CAPONE, F. BORGONOVO “A Prediction-based Approach for Feature Aggregation in Visual Sensor Networks”, *Ad Hoc Networks*, Vol 83, February 2019

[J16] J. ORTIN, M. CESANA, A. REDONDI, M. CANALES, J, R, GALLEGRO, “Analysis of Unslotted IEEE 802.15.4 Networks with Heterogeneous Traffic Classes ”, *IEEE Wireless Communications Letters*, Vol 8, Issue 2, April 2019

[J15] C. DELGADO, M. CANALES, J. ORTIN, J, R, GALLEGRO, A. REDONDI, S. BOUSNINA, M. CESANA “Joint Application Admission Control and Network Slicing in Virtual Sensor Networks”, *IEEE Internet of Things Journal*, Vol 5, Issue, Feb 2018

[J14] A. REDONDI, M. CESANA “Building Up Knowledge through Passive WiFi Probes”, *Computer Communications*, Vol 117, February 2018

[J13] A. REDONDI “Radio Map Interpolation using Graph Signal Processing”, *IEEE Communication Letters*, Vol 22, Issue 1, January 2018

[J12] I. FILIPPINI, A. REDONDI, A. CAPONE “Beyond Cellular Green Generation: Potential and Challenges of the Network Separation”, *Hindawi Mobile Information Systems*, 2017.

[J11] A. CAPONE, S. D’ELIA, I. FILIPPINI, A. REDONDI, M. ZANGANI “Modeling Energy Consumption of Mobile Radio Networks: An Operator Perspective”, *IEEE Wireless Communication Magazine*, Vol 24, Issue 4, 2017.

[J10] L. BAROFFIO, A. REDONDI, M. TAGLIASACCHI, S. TUBARO “A survey on compact features for visual content analysis”, *APSIPA Transactions on Signal and Information Processing*, Vol. 5, e13, 2016

[J9] A. REDONDI, L. BAROFFIO,, M. CESANA, M. TAGLIASACCHI “A Game-Theoretic Approach for Feature Extraction in Camera Networks”, *SPIE Journal of Electronic Imaging*, 25(4), 041002 (2016), doi: 10.1117/1.JEI.25.4.041002

[J8] A. REDONDI, L. BAROFFIO, L. BIANCHI, M. CESANA, M. TAGLIASACCHI “Compress-then-Analyze VS. Analyze-then-Compress: what is best in Visual Sensor Networks?”, *IEEE Transactions on Mobile Computing*, Vol 15, Issue 12, December 2016.

[J7] L. BONDI, L. BAROFFIO, M. CESANA, A. REDONDI, M. TAGLIASACCHI “EZ-VSN: An Open Source and Flexible Framework for Visual Sensor Networks ”, IEEE Internet of Things Journal, Vol 3, Issue 5, October 2016.

[J6] L. BAROFFIO, A. CANCLINI, M. CESANA, A. REDONDI, M. TAGLIASACCHI, S. TUBARO “Coding local and global visual features extracted from video sequences”, IEEE Transactions on Image Processing, Vol 24, Issue 12, June 2015

[J5] A. REDONDI, M. CESANA, G. DAN, I. FILIPPINI, V. FODOR, M. TAGLIASACCHI “Cooperative Image Analysis in Visual Sensor Networks”, Ad Hoc Networks, Volume 28, May 2015, Pages 38-51

[J4] A. REDONDI, D. BURANAPANICHKIT, M. CESANA, M. TAGLIASACCHI, Y. ANDREOPOULOS “Energy Consumption of Visual Sensor Networks: Impact of Spatio-Temporal Coverage”, IEEE Transactions on Circuits and Systems for Video Technology, Volume 24, Issue 12, June 2014

[J3] L. BAROFFIO, M. CESANA, A. REDONDI, M. TAGLIASACCHI, S. TUBARO “Coding visual features extracted from video sequences”, IEEE Transactions on Image Processing, Volume 23, Issue 5, May 2014

[J2] TARRIO P., REDONDI A., CESANA M., “Energy-Accuracy Trade-offs for Hybrid Localization Using RSS and Inertial Measurements in Wireless Sensor Networks”, Ad Hoc Networks, Volume 11, Issue 6, August 2013, Pages 1874-1889.

[J1] REDONDI A., BORSANI L., CHIRICO M., CESANA M., TAGLIASACCHI M., “An Integrated System based on Wireless Sensor Networks for patient Monitoring, Localization and Tracking”, Ad Hoc Networks, Volume 11, Issue 1, January 2013, Pages 39-53.

Book Chapters

[B1] M. CESANA, A. REDONDI “IoT Communication Technologies for Smart Cities”, Designing, Developing and Facilitating Smart Cities: Urban Design to IoT Solutions, 2017.

Papers in Proceedings of International Conferences

[C43] A. PIMPINELLA, A. REDONDI, I. GALIMBERTI, F. FOGLIA, L. VENTURINI “Towards Long-Term Coverage and Video Users Satisfaction Prediction in Cellular Networks”, IFIP Wireless and Mobile Networking Conference (WMNC2019), Paris, France.

[C42] A. OKIC, A. REDONDI “Forecasting Mobile Cellular Traffic Sampled at Different Frequencies”, IFIP Wireless and Mobile Networking Conference (WMNC2019), Paris, France.

[C41] C. PARERA, A. REDONDI, M. CESANA, Q. LIAO, I. MALANCHINI “Transfer Learning for Channel Quality Prediction”, IEEE International Symposium on Measurements and Networking, July 2019, Catania, Italy

[C40] A. REDONDI, A. ARCIA MORET, P. MANZONI “Towards a Scaled IoT Pub/Sub Architecture for 5G Networks: the case of Multiaccess Edge Computing”, IEEE World Forum on IoT, April 2019, Limerick, Ireland

- [C39] A. OKIC, A. REDONDI, I. GALIMBERTI, F. FOGLIA, L. VENTURINI “Analyzing Different Mobile Applications in Time and Space: a City-Wide Scenario”, IEEE Wireless Communication and Networking Conference (WCNC2018), September 2018, Marrakech, Morocco
- [C38] R. GIAMBONA, A. REDONDI, M. CESANA “MQTT+: Enhanced Syntax and Broker Functionalities for Data Filtering, Processing and Aggregation”, Proceedings of the 14th ACM International Symposium on QoS and Security for Wireless and Mobile Networks. Montreal, November 2018.
- [C37] J. ORTIN, A. REDONDI, M. CESANA “A Framework for Planning LoRaWAN networks”, 2018 IEEE PIMRC, Bologna, Italy
- [C36] J. ORTIN, A. REDONDI, M. CESANA “How Do Aloha and Listen-Before-Talk coexist in LoRaWAN”, 2018 IEEE PIMRC, Bologna, Italy
- [C35] A. PIMPINELLA, A. REDONDI, M. CESANA “Load Balancing and Performance Optimization in wM-Bus Smart Meter Networks”, 2018 IEEE/IFIP Annual Mediterranean Ad Hoc Networking Workshop, Capri, Italy
- [C34] E. LONGO, A. REDONDI, M. CESANA “Pairing Wi-Fi and Bluetooth MAC Addresses Through Passive Packet Capture”, 2018 IEEE/IFIP Annual Mediterranean Ad Hoc Networking Workshop, Capri, Italy
- [C33] C. PARERA, A. REDONDI, M. CESANA, Q. LIAO, L. EWE, C. TATINO “Transferring Knowledge for Tilt-dependent Radio Map Prediction”, 2018 IEEE Wireless Communications and Networking Conference, Barcellona
- [C32] C. DELGADO, J.R. GALLEGO, M. CANALES, J. ORTIN, M. CESANA, S. BOUSNINA, A. REDONDI “Energy-aware Dynamic Resource Allocation in Virtual Sensor Networks”, 14th Annual IEEE Consumer Communication & Networking Conference, January 2017, Las Vegas
- [C31] A. REDONDI, D. SANVITO, M. CESANA “Passive classification of Wi-Fi enabled devices”, 19th ACM International Conference on Modeling, Simulation and Analysis of Wireless and Mobile Systems (MSWIM2016), November 2016, Malta.
- [C30] K. ANTEVSKI, A. REDONDI, R. PITIC “A hybrid BLE and Wi-Fi localization system for the creation of study groups in smart libraries”, 9th IFIP Wireless and Mobile Networking Conference (WMNC2016), July 2016, Colmar, France. **Best Paper Award!**
- [C29] A. REDONDI, M. CESANA, D. WEIBEL, E. FITZGERALD “Understanding the WiFi usage of university students”, IEEE International Workshop on Traffic Analysis and Characterization, (TRAC2016), September 2016, Paphos, Cyprus
- [C28] L. BAROFFIO, M. CESANA, A. REDONDI, M. TAGLIASACCHI, S. TUBARO “Fast Keypoint Detection in Video Sequences”, IEEE International Conference on Acoustic, Speech and Signal Processing (ICASSP2016), March 2016, Shanghai
- [C27] A. REDONDI, L. BAROFFIO, M. CESANA, M. TAGLIASACCHI, “Multi View Coding and Routing of Local Features in Visual Sensor Networks”, IEEE INFOCOM 2016, San Francisco (CA)

- [C26] L. BAROFFIO, L. BONDI, M. CESANA, A. REDONDI, M. TAGLIASACCHI, “A Visual Sensor Network for Parking Occupancy Detection in Smart Cities”, IEEE World Forum on Internet of Things, December 2015, Milan, Italy.
- [C25] A. REDONDI, L. BAROFFIO, M. CESANA, M. TAGLIASACCHI, “Cooperative Features Extraction in Visual Sensor Networks: a Game-Theoretic Approach”, ACM International Conference on Distributed Smart Cameras Processing (ICDSC2015), September 2015, Sevilla, Spain.
- [C24] L. BAROFFIO, M. CESANA, A. REDONDI, M. TAGLIASACCHI, S. TUBARO “Hybrid Coding of Visual Content and Local Image Features”, IEEE International Conference on Image Processing (ICIP2015), September 2015, Quebec City, Canada.
- [C23] L. BAROFFIO, L. BONDI, M. CESANA, A. REDONDI, M. TAGLIASACCHI “Multi-view Coding of Local Features in Visual Sensor Networks”, DCVRA Workshop, IEEE International Conference on Multimedia & Expo (ICME2015), July 2015, Turin, Italy.
- [C22] A. REDONDI, L. BAROFFIO, M. CESANA, M. TAGLIASACCHI “A Mathematical Programming Approach to Task Offloading in Visual Sensor Networks”, HNIoT Workshop, IEEE Vehicular Technology Conference (VTC2015-Spring), May 2015, Glasgow, Scotland. **Best paper award!**
- [C21] S. PARIS, A. REDONDI, M. CESANA, M. TAGLIASACCHI “Distributed Object Recognition in Visual Sensor Networks”, IEEE International Conference on Communication (ICC2015), June 2015, London, UK.
- [C20] L. BAROFFIO, A. CANCLINI, M. CESANA, A. REDONDI, M. TAGLIASACCHI “BRISKOLA: Brisk Optimized for Low-Power ARM Architectures”, IEEE International Conference on Image Processing (ICIP2014), October 2014, Paris, France.
- [C19] L. BAROFFIO, J. ASCENSO, M. CESANA, A. REDONDI, M. TAGLIASACCHI “Coding Binary Local Features Extracted From Video Sequences”, IEEE International Conference on Image Processing (ICIP2014), October 2014, Paris, France. **Top 10%**
- [C18] L. BAROFFIO, M. CESANA, A. REDONDI, M. TAGLIASACCHI “BAMBOO: A Fast Descriptor Based on Asymmetric Pairwise Boosting”, IEEE International Conference on Image Processing (ICIP2014), October 2014, Paris, France.
- [C17] A. REDONDI, L. BAROFFIO, M. CESANA, M. TAGLIASACCHI “Performance Evaluation of Object Recognition Tasks in Visual Sensor Networks”, 26th International Teletraffic Congress (ITC 2014), Karlskrona, Sweden.
- [C16] A. REDONDI, M. CESANA, M. TAGLIASACCHI, D. BURANAPANICKIT, Y. ANDREOPOULOS “Energy Consumption of Visual Sensor Networks: Impact of Spatio-Temporal Coverage Based on Single-hop Topologies”, 11th European Conference on Wireless Sensor Networks (EWSN 2014), Oxford, UK.
- [C15] A. REDONDI, I. FILIPPINI, A. CAPONE “Context Management in Energy-efficient Radio Access Networks”, Tyrrhenian International Workshop on Digital Communications (TIWDC2013), Genova, Italy.
- [C14] A. REDONDI, L. BAROFFIO, M. CESANA, M. TAGLIASACCHI “Compress-then-analyze vs. analyze-then-compress: Two paradigms for image analysis in visual sensor networks”, IEEE International Workshop on Multimedia Signal Processing (MMSP2013), September 2013, Pula, Sardinia.

- [C13] A. REDONDI, E. AMALDI “Optimizing the Placement of Anchor Nodes in RSS-based Indoor Localization Systems”, 12th IEEE/IFIP Annual Mediterranean Ad Hoc Networking Workshop, June 2013, Ajaccio, France
- [C12] A. CANCLINI, A. REDONDI, M. CESANA, M. TAGLIASACCHI, J. ASCENSO, R. CILLA “Evaluation of low complexity visual features detectors and descriptors”, 18th International Conference on Digital Signal Processing (DSP2013), July 2013, Santorini, Greece.
- [C11] A. REDONDI, L. BAROFFIO, A. CANCLINI, M. CESANA, M. TAGLIASACCHI “A Visual Sensor Network for Object Recognition: Testbed Realization”, 18th International Conference on Digital Signal Processing (DSP2013), July 2013, Santorini, Greece.
- [C10] A. REDONDI, L. BAROFFIO, J. ASCENSO, M. TAGLIASACCHI, M. CESANA “Rate-accuracy optimization of binary descriptors”, IEEE International Conference on Image Processing (ICIP2013), September 2013, Melbourne, Australia. **Top 10%**
- [C9] L. BAROFFIO, A. REDONDI, M. TAGLIASACCHI, M. CESANA, S. TUBARO “Coding video sequences of visual features”, IEEE International Conference on Image Processing (ICIP2013), September 2013, Melbourne, Australia.
- [C8] REDONDI A., CESANA M., TAGLIASACCHI M., “Low-bitrate coding schemes for local image descriptors”, in 2012 IEEE Workshop on Multimedia Signal Processing, September 2012, Banff, Canada. (MMSP2012)
- [C7] REDONDI A., CESANA M., TAGLIASACCHI M., “Rate-Accuracy Optimization in Visual Wireless Sensor Networks”, International Conference on Image Processing, September 2012, Orlando, Florida (ICIP2012)
- [C6] REDONDI A., CESANA M., BARCELO-ORDINAS J. M., ALAEI M., TIGLAO N., GRILO A., TODOROVA P., “Real-time Multimedia Monitoring in Large-Scale Wireless Multimedia Sensor Networks: Research Challenges”, Eight Euro-NF Conference on Next Generation Internet, NGI2012, June 2012, Karlskrona, Sweden
- [C5] PANIGA S., BORSANI L., REDONDI A., TAGLIASACCHI M., CESANA M., “Experimental Evaluation of a Video Streaming System for Wireless Multimedia Sensor Networks”, 10th IEEE/IFIP Annual Mediterranean Ad Hoc Networking Workshop, June 12-15, 2011, Favignana, Italy.
- [C4] P. TARRIO, M. CESANA, M. TAGLIASACCHI, L. P. BORSANI, A. REDONDI AND J. R. CASAR “An energy-efficient strategy for combined RSS-PDR indoor localization”, 7th IEEE PerCom Workshop on Mobile Pervasive Wireless Networking. 2011.
- [C3] A. REDONDI, L. BORSANI, S. GUGLIELMI, M. CESANA “Tree-Based Routing Protocol for Wireless Sensor Networks”, IEEE WONS 2011, January 26-28, 2011, Bardonecchia, Italia.
- [C2] A. REDONDI, M. TAGLIASACCHI, M. CESANA, L. BORSANI, P. TARRIO E F. SALICE. “Localization and Ubiquitous monitoring of patients for health care support”, IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, September 26- 30, 2010, Istanbul, Turkey.
- [C1] A. REDONDI, M. TAGLIASACCHI, F. ANTONACCI, A.SARTI. “Geometric Calibration of Distributed Microphone Arrays”, IEEE Workshop on Multimedia Signal Processing, Rio de Janeiro, Brasil, October 2009, p1-5 **Top 10% Paper Award**

Demonstrations

[D10] R. GIAMBONA, A. REDONDI, M. CESANA “Demonstrating MQTT+: An Advanced Broker for Data Filtering, Processing and Aggregation”, ACM International Conference on Modeling, Simulation and Analysis of Wireless and Mobile Systems (MSWIM2018), Montreal, Canada

[D9] M. PEUSTER, H. KARL, A. REDONDI, A. CAPONE “Demonstrating On-Demand Cell Switching with a Two-Layer Mobile Network Testbed”, IEEE INFOCOM 2016, S. Francisco, April 2016.

[D8] L. BAROFFIO, L. BONDI, M. CESANA, A. REDONDI, M. TAGLIASACCHI “GreenEyes: Open Source and Flexible Framework for Visual Sensor Networks”, ACM/IEEE International Conference on Distributed Smart Cameras, Sevilla, September 2015. **Best Demo Award**

[D7] L. BAROFFIO, L. BONDI, M. CESANA, A. REDONDI, M. TAGLIASACCHI “GREENEYES: Enabling Visual Analysis on Resource-Constrained Wireless Sensor Networks”, IEEE International Conference on Multimedia and Expo, Turin, July 2015

[D6] A. REDONDI, L. BAROFFIO, A. CANCLINI, M. CESANA, M. TAGLIASACCHI, G. DAN, V. FODOR, E. ERIKSSON, J. ASCENSO, P. MONTEIRO “Enabling Visual Analysis in Wireless Sensor Networks”, ACM/IEEE International Conference on Distributed Smart Cameras, Venice, November 2014

[D5] A. REDONDI, L. BAROFFIO, A. CANCLINI, M. CESANA, M. TAGLIASACCHI, G. DAN, V. FODOR, E. ERIKSSON, J. ASCENSO, P. MONTEIRO “Enabling Image Analysis Tasks in Visual Sensor Networks”, IEEE International Conference on Image Processing, Paris, October 2014

[D4] A. CANCLINI, L. BAROFFIO, M. CESANA, A. REDONDI, M. TAGLIASACCHI “Object recognition in visual sensor networks based on compression and transmission of binary local features”, IEEE International Conference on Acoustics, Speech and Signal Processing, Florence, May 2014

[D3] A. CANCLINI, L. BAROFFIO, M. CESANA, A. REDONDI, M. TAGLIASACCHI “Demo Abstract: Object Recognition in Visual Sensor Networks. A comparison of two different operative paradigms”, 11th European Conference on Wireless Sensor Networks (EWSN 2014), Oxford, February 2014.

[D2] A. CANCLINI, L. BAROFFIO, M. CESANA, A. REDONDI, M. TAGLIASACCHI “Comparison of two paradigms for image analysis in Visual Sensor Networks”, ACM SenSys, Rome, November 2013

[D1] A. CANCLINI, L. BAROFFIO, M. CESANA, A. REDONDI, M. TAGLIASACCHI “Compress-then-analyze vs. Analyze-then-compress. Two paradigms for image analysis in visual sensor networks”, IEEE International Workshop on Multimedia Signal Processing (MMSP), Pula (Italy), September 2013

Patents

[P1] Patent EIB.14.027.A - S. TUBARO, M. CESANA, M. TAGLIASACCHI, L. BAROFFIO, A. REDONDI “Metodo e sistema di analisi visuale distribuita”, Patent holder: Politecnico di Milano; filed 24/12/2014