

CURRICULUM VITAE



INFORMAZIONI PERSONALI

Nome Puliafito Antonio
Indirizzo Via Umberto 134, Catania
Telefono **+39 3486052885**
Fax **+39 095 530695**
E-mail **apuliafito@unime.it**

Nazionalità italiana
Data di nascita 24-08-1965

ESPERIENZA LAVORATIVA

- Date (da – a) Dal 1995 al 1998 Ricercatore Universitario presso Università degli studi di Catania
Dal 1998 al 2002 Professore Associato presso Università degli studi di Messina
Dal 2002 Professore Ordinario di Sistemi di Elaborazione delle Informazioni (ING-INF/05) presso l'Università degli studi di Messina
- Tipo di impiego Docente di sistemi di elaborazione delle informazioni
- Principali mansioni e responsabilità Didattica, ricerca, coordinamento gruppo di ricerca ad oggi costituito da 4 Prof. Associati, 1 Ricercatore, 3 Assegnisti, 2 PhD, 5 Contrattisti
1994-1995 – Visiting Professor presso la Duke University, North Carolina (USA)
2015 - Visiting Professor presso Indian Institute of Information Technology, Allahabad, corso da 6 CFU su *“IoT and Security”*.
2016 - Visiting Professor presso University of Innopolis (Russia), corso da 6CFU su *“Security principles and applications”*.

ISTRUZIONE E FORMAZIONE

- Date (da – a) 1988 Università di Catania - Laurea in Ingegneria Elettrotecnica
1992 Università di Palermo – Dottore di ricerca in Ingegneria elettronica ed Informatica

CAPACITÀ E COMPETENZE PERSONALI

Acquisite nel corso della vita e della carriera ma non necessariamente riconosciute da certificati e diplomi ufficiali.

Revisore per la Comunità europea di progetti per il 4, 5, 6 e 7 programma quadro
Valutatore progetti PRIN
Responsabile di numerosi progetti di ricerca sia a carattere regionale che nazionale
Responsabile di unità di ricerca in progetti sia nazionali che internazionali
Consulente informatico per aziende e pubblica amministrazione centrale e locale
Classificato in 4° posizione nella classifica mondiale sulla Individual productivity nell'amb computing come indicato in Leonard Heilig and Stefan Voß, "A Scientometric Analysis of Literature", IEEE Transactions on Cloud Computing, DOI 10.1109/TCC.2014.2321168.

PRIMA LINGUA **Italiano**
ALTRE LINGUE **Inglese**

- Capacità di lettura Ottima
- Capacità di scrittura Ottima
- Capacità di espressione orale Ottima

CAPACITÀ E COMPETENZE
RELAZIONALI

Vivere e lavorare con altre persone, in ambiente multiculturale, occupando posti in cui la comunicazione è importante e in situazioni in cui è essenziale lavorare in squadra (ad es. cultura e sport), ecc.

Attività di docenza e di coordinamento gruppi di ricerca

Autore di oltre 400 pubblicazioni a carattere nazionale ed internazionale.

Relatore di numerose tesi di laurea e tutor di oltre 20 studenti di dottorato.

Di seguito, alcuni dei comitati scientifici e redazionali di cui ha fatto parte:

- *6th International Workshop on Petri Nets and Performance Models (PNPM'95), Durham, North Carolina, Oct 3-6, 1995 (Local arrangement and Financial Chair).*
- *10th European Simulation Multiconference, Budapest, Hungary, June 2-6, 1996.*
- *Evaluation Conference on Inter University Cooperation in Europe in the Field of Computing, Dublin, Ireland, July 1-3, 1996.*
- *5th Int. Conference on Fuzzy Theory and Technology, Durham (USA), March 1-5, 1997.*
- *3th Int. Conference on Computer Science and Informatics, Durham (USA), March 1-5, 1997.*
- *11th European Simulation Multiconference, Istanbul, Turkey, June 1-4, 1997.*
- *5th Annual Conference on the Teaching of Computing, Dublin, Ireland, Aug 26-29, 1997 (Steering committee member).*
- *4th International Conference on Analytical and Numerical Modeling Techniques with application to QoS Modeling, Singapore, Sept. 1-4, 1997.*
- *5th International Conference on Analytical and Numerical Modeling Techniques, Manchester, UK, June 16-19, 1998.*
- *European Simulation Symposium (ESS'99) – Analytical and Numerical Techniques track, Erlangen, Germany, October 24-27, 1999.*
- *IEEE Symposium on Computers and Communications (ISCC2000), Antibes – St. Juan les Pins, 4-6 July 2000.*
- *IEEE Symposium on Computers and Communications (ISCC2001), Ammameth – Tunisia, 2-5 July 2001.*
- *IEEE Petri Nets Performance Models (PNPM01), Aachen – Germania, 11-14 Settembre 2001.*
- *IEEE Symposium on Computers and Communications (ISCC2002), Taormina – Italy, 2-5 July 2002 (Local organizer).*
- *IEEE Symposium on Computers and Communications (ISCC2004), Alessandria d'Egitto – Italy, 1-4 July 2004 (Technical Chair).*
- *IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM 2005), Taormina – (Italy) 13-16 July 2005 (Local organization Chair).*
- *International Conference on High Performance Computing and Communications (HPCC05), Sorrento – (Italy) 21-23 September 2005 (program vice chair)*
- *IEEE 20th International Conference on Advanced Information, Networking and Applications (AINA2006), Vienna, 18-20 April 2006.*
- *4th International Conference on Ubiquitous Intelligence and Computing (UIC-07), Hong Kong, July 11-13, 2007 (program co-chair).*
- *13th IEEE Workshop on Dependable Parallel, Distributed and Network-Centric Systems (DPDNS'08), April 14-18, 2008, Miami, Florida (USA) (program chair).*
- *9th IEEE International Symposium on Network Computing and Applications (NCA10), 15 – 17 July 2010, Cambridge, MA (USA).*
- *Workshop di Informatica Quantitativa (InfQ), 27-29 Giugno 2011, Lipari (Italy) – (General Chair)*
- *IEEE Symposium on Computers and Communications (ISCC2011), Corfu' – Greece, 1-4 July 2011.*
- *IEEE ServiceWave 2011 – Cloud Computing Track, Poznan (Polonia), 26-28 Oct 2011.*
- *IEEE NCA 2012 – Network Computing and Applications, Cambridge (USA), 23-25 Aug, 2012.*
- *13th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing May 13-16, 2012, Ottawa, Canada.*

- 17th IEEE Workshop on Dependable Parallel, Distributed and Network-Centric Systems, May 21-25, 2012, Shanghai, China.
 - International Workshop on Extending Seamlessly to the Internet of Things - esIoT 2012 – July 4-6, Palermo (Italy).
 - 12th IEEE International Symposium on Network Computing and Applications (IEEE NCA13), 22-24 August 2013, Boston (USA)
 - 1st International Workshop on Sensors and Smart Cities (SSC 2014), 5 November 2014, Hong Kong (General Chair)
 - 4th IEEE Symposium on Network Cloud Computing and Applications (NCCA2015), June 11-12, Munich (PC-Co-Chair).
 - IEEE International Conference on Communications (ICC 2016) SAC Internet of Things, 23 May 2016, Kuala Lumpur, Malesia.
 - 10th EAI International Conference on Performance Evaluation Methodologies and Tools (Valuetools 2016), October 2016, Taormina Italy (general Chair).
 - Eighth International Workshop on Software Aging and Rejuvenation (WOSAR 2016), October 23 and October 27, 2016, Ottawa, Canada.
 - Ad-Hoc, Mobile and Wireless Networks: ADHOC-NOW 2017, June 2017, Taormina Italy (general Chair).
 - 4th IEEE SmartComp Conference, June 2018, Taormina Italy (general Chair).
 - 11th IEEE International Conference on Internet of Things (iThings 2018), Halifax (Canada), July 30 – August 3, 2018 (General co-chair).
 - 12th IEEE International Conference on Internet of Things (iThings 2019), Atlanta (USA), 14-17 Luglio 2019 (General Chair).
-
- Guest editor of the International Journal on Performance Engineering special issue on "Performance and Dependability Modeling of Dynamic Systems" (2011).
 - Guest editor special issue of ACM SIGMETRICS Performance Evaluation (2011).
 - Guest Editor Special Issue of the EURASIP Journal on Wireless Communications and Networking on "Internet of Things: Convergence of Sensing, Networking, Computing and Web Technologies".
 - Member of the editorial board of the "Journal of Cloud Computing Advances, Systems and Applications" (JoCCASA).
 - Member of the advisory board of the International Journal on Security in Computer Networks and Distributed Systems (IJSCNDS) - IGI Global.
 - Guest editor IEEE Transactions on Dependable and Secure Computing, special issue on Cloud computing Assessment: metrics, algorithms, policies, models, and evaluation techniques, 2012.
 - Member of the editorial board of the Journal of Parallel & Cloud Computing (PCC), published by THE WORLD ACADEMIC PUBLISHING CO., LIMITED.
 - Member of the Editorial Board of The Scientific World Journal, Hindawi Publishing Corporation.
 - Member of the editorial Board of the Journal Sensors, published by Hindawi.
 - Member of the IEEE Computer Society's Special Technical Community on Sustainable Computing (STC-SC)
 - Member of the Editorial Board of the International Journal of Distributed Sensor Networks (IJDSN), Hindawi Publishing Corporation.
 - Guest Editor of the Hindawi Journal Sensors, special issue on "Sensors and Smart cities" (2015).
 - Guest Editor Journal Sensor and Actuator Networks (JSAN) by Indawi, S.I. on "Toward Flexible and Scalable Sensor Network Systems with Evolving Intelligence", 2016.
 - Guest Editor of the Hindawi International Journal of Distributed Sensor Networks, special issue on "Smart Objects, Infrastructures, and Services in the Internet of Things (SOIS)", 2016.
 - Guest Editor of Performance Evaluation (Nov. 2016) with the best papers from the Valuetools 2016 conference.
 - Guest Editor of the EAI Endorsed Transactions on Cloud Computing Systems, special

issue on Cloud and fog computing: Performance Evaluation Methodologies and Tools, April 2017.

- Member of the Editorial Board of the International Journal of Computer Applications in Technology (IJCAT), Inderscience Publishers.
- Member of the Editorial board of the Journal of Cloud Computing, Springer.
- Member of the Editorial Board of Sensors, section Sensor Networks, from January 2018.
- Editor IEEE TNSE (Transactions on Network Science and Engineering), Special issue on “Edge computing for Internet of Things”, 2019.
- Editor with K.S. Trivedi of the book “Systems Modeling: Methodologies and Tools”, Springer, 2018.
- Guest Editor of MDPI Sensors, special issue on “Exploiting the IoT within a Cyber Physical Social System”, 2019.
- Guest Editor of Persavise and Mobile Computing, special issue on “SMART COMPUTING: RESEARCH TRENDS AND PERSPECTIVES”, Elsevier, 2019.
- Member of the editorial Board of the Special Session on Intelligent Sensors, Journal Sensors, published by Hindawi (2018 -)
- Guest Editor of the ACM Transactions on Technology, special issue on Fog,Edge, and Cloud Integration for Smart Environments (2019).

CAPACITÀ E COMPETENZE ORGANIZZATIVE

Ad es. coordinamento e amministrazione di persone, progetti, bilanci; sul posto di lavoro, in attività di volontariato (ad es. cultura e sport), a casa, ecc.

- Delegato del Rettore dell'Università di Messina per l'Informatizzazione dell'Ateneo nel periodo 2004-2008.
- Coordinatore del corso di studi in Ingegneria Informatica (2000 - 2012)
- Coordinatore del corso di dottorato di ricerca in Tecnologie avanzate per l'ingegneria dell'informazione (2000 - 2010)
- Responsabile ERASMUS per la Facoltà di Ingegneria di Messina (1998 -)
- Vincitore del CISCO ICT Innovation Award 2005 per la realizzazione della rete integrata voce/dati della nuova facoltà di Ingegneria dell'università di Messina
- Fondatore e responsabile scientifico Inquadro srl, spin-off Università di Messina
- Finalista vincitore del Premio ForumPA 2008 "Protagonista dell'innovazione"
- Fondatore di DHLabs srl, spin-off tra Università di Messina ed Arduino.
- Fondatore e responsabile scientifico di SmartMe.io, spin-off Università di Messina
- Vincitore del Premio G7 Trasporti per la soluzione CarPooling @UniME (Cagliari 21/6/2017)
- Coordinatore del Dottorato Internazionale in Cyber Physical Systems (dal 2017)
- BEST paper Award:
 - Longo F., Rocco Lotronto A., Scarpa M. and Puliafito A. (2015). Optimizing Routine Maintenance Team Routes. In Proceedings of the 17th International Conference on Enterprise Information Systems ISBN 978-989-758-096-3, pages 535-546. DOI: 10.5220/0005400105350546
 - R. Dautov, S. Distefano, D. Bruneo, F. Longo, G. Merlino, A. Puliafito, "Pushing Intelligence to the Edge with a Stream Processing Architecture", 10th IEEE Int. Conf. on Internet of Things (i-Things 2017), 21-23 June 2017, Exeter (UK).

Responsabile dei seguenti progetti di ricerca Nazionali ed internazionali:

- Progetto CNR-Agenzia 2000 "Metodologie di progetto di server multimediali ad alte prestazioni accessibili in Internet" (2001-2002) (coordinatore nazionale)
- Progetto con la ST-Microelectronics su "Multimedia Messaging Systems" (2001-2002)
- Progetto FIRB RBNE019N8N "Valutazione delle prestazioni dei sistemi complessi: tecniche, metodologie e strumenti" (2002-2005)
- Progetto FIRB "Middleware per servizi evoluti su sistemi distribuiti wired-wireless di grandi dimensioni" (2002-2005)
- Progetto CNR "Infrastrutture software per reti ad hoc orientate ad ambienti difficili" (2002-2005)
- Progetto ISID "Incremento della Sicurezza nei Sistemi Informativi Aziendali" (2002-2005)
- Progetto 297 "Piattaforma mobile a basso consumo per future applicazioni multimediali" da 1.5M€ (2005-2007).
- Progetto TRIGRID "Trinacria GRID Virtual Laboratory" da 3.7M€ (2005-2008), che intende sviluppare una piattaforma ad alta velocità all'interno della Regione Sicilia per lo sviluppo di nuove soluzioni di calcolo basate sul GRID computing.
- Progetto "Ponte digitale" da 4M€ (2005-2007), per la realizzazione di un centro di competenza sulla info-mobilità.
- Progetto PI2S2 "Progetto per l'Implementazione e lo Sviluppo di una e-Infrastruttura in Sicilia basata sul paradigma della grid" da 11M€ (2005-2008).
- Progetto FP7 RESERVOIR da 14 M€, che intende studiare e sviluppare tecniche di virtualizzazione in ambiente Cloud (2009-2011)
- Progetto SET "Sistemi di trasporto eco-efficienti" da 4M€ finanziato dal Ministero dell'Economia sullo studio e realizzazione di un sistema di localizzazione veicolare per il trasporto pubblico (2008-2009).
- Progetto PRIN08 Cloud@Home finanziato dal MIUR sullo studio di sistemi di calcolo basati su una combinazione di Cloud e volunteer computing (2010-2011).
- Progetto FP7 VISION da 15 M€, che intende sviluppare nuove tecniche di gestione dei dati in ambiente Cloud (2010-2012).
- Progetto FP7 COST Euro-TM: Transactional Memories: Foundations, Algorithms, Tools, and Applications (2011-2014) – (Rappresentante italiano nel Management Committee)
- Project POR SIMONE: Cloud-based system for energy monitoring and management (2011-2013).
- Project FP7 CLOUDWave 10 M€, that intends to study how to adapt applications to cloud environments (2013-2016).
- Project PON01 SIGMA 11 M€ on the use of cloud computing to manage multirisk situations (2013-2015)
- Project FP7 "FrontierCities - European Cities driving the Future Internet" (2014-2016)

- Progetto Europeo Horizon2020 Beacon: Enabling Federated Cloud Networking (2015-2017)
- Progetto di internazionalizzazione Research & Mobility con University of Berkeley, Duke University, University of San Diego, Polytechnic of Hong Kong, EPFL (2016-2017)

Vice Presidente del Consorzio InterUniversitario COMETA per il calcolo ad alte prestazioni sino al 2008.

Membro di IRIANC: International Research Institute on Autonomic Network Computing.

Componente della general assembly e del comitato tecnico dei progetti RESERVOIR e Vision-Cloud, finanziati dalla Commissione europea nell'ambito del settimo Programma quadro per lo studio e l'applicazione di nuovi servizi Cloud.

Direttore del laboratorio Wireless ed RFID dell'Università di Messina (in collaborazione con Oracle ed Intel)

Direttore del Center on Information Technology and their Applications (CIAM) dell'Università di Messina (2006-2009 e 2013-2018)

Direttore del Laboratorio Nazionale CINI "Smart cities & Communities" (2018 -).

Responsabile dell'iniziativa di Crowdfunding #*SmartME* per la realizzazione di una infrastruttura di sensori collegata al Cloud all'interno della città di Messina (*smartme.unime.it*). L'obiettivo è quello di creare un Cyber Physical System di estensione metropolitana in cui sviluppare ed offrire servizi tipo: monitoraggio ambientale, mobilità intelligente e di energy management.

CAPACITÀ E COMPETENZE TECNICHE

*Con computer, attrezzature specifiche,
macchinari, ecc.*

Programmazione, gestione sistemi di calcolo, reti di calcolatori, sistemi wireless, IoT, GRID, Cloud computing e Cyber Security.

Ha contribuito a realizzare i seguenti strumenti software:

- WebSPN: tool per lo studio delle reti di Petri non Markoviane che permette la soluzione analitica di modelli estremamente complessi
- MAP: piattaforma ad agenti mobili basata su Java e su meccanismi di sicurezza avanzati
- DAVID: server per video on demand basato su una architettura totalmente distribuita in grado di garantire prestazioni elevate e costi contenuti
- ArgoPerformance: tool per l'analisi delle prestazioni del software basato su UML
- GridVideo: una applicazione basata su Grid per offrire un server di video on demand virtuale.
- WHEREX: middleware per la realizzazione e gestione dell'Internet of Things (in seguito trasformato in prodotto commerciale da Inquadro srl)
- CLEVER: middleware per la realizzazione e gestione di infrastrutture di Cloud computing
- S4T: ambiente di sviluppo per Cyber-Physical Systems in grado di interconnettere l'Internet delle cose al Cloud.

L'attività scientifica è rivolta principalmente allo studio dei sistemi di calcolo distribuiti e paralleli con particolare attenzione verso la modellazione delle prestazioni e dell'affidabilità, il networking, le architetture orientate ai servizi. Applicazioni specifiche sono state sviluppate sul network management e sulla gestione della qualità del servizio. Si è occupato di tematiche legate alla gestione della mobilità dell'utente ed alla sicurezza sia nelle reti wireless che ad hoc. Particolare enfasi viene attualmente dedicata allo studio dei sistemi di calcolo Grid e sul Cloud computing ed alla adozione di tali paradigmi per fornire servizi multimediali avanzati all'utente finale, avendo particolare riguardo alla realizzazione di servizi per le PMI e la Pubblica Amministrazione. Interesse specifico riguarda l'Internet delle cose ed i Cyber Physical Systems e le loro applicazioni.

L'attività di ricerca riguarda le seguenti aree tematiche:

- Tecniche di modellazione e Valutazione delle Prestazioni
- Internet delle cose
- Cyber security e sistemi di trustness
- GRID e Cloud Computing
- Smart cities

Negli ultimi anni particolare attenzione è stata posta all'integrazione del mondo Cyber con quello fisico contribuendo all'estensione di OpenStack verso l'IoT, con la realizzazione del middleware Stack4Things (S4T). S4T è alla base del progetto #SmartME.


In ecosistemi fortemente eterogenei quali le Smart City, in cui numerosi stakeholder condividono risorse e servizi, un tema fondamentale è quello della cyber security ed in particolare la fiducia (o trustness). Volendosi focalizzare sull'ambito dell'Internet of Things, tale tematica si declina in svariate direzioni: fiducia deve poter essere data ai dati, ai loro produttori (generalmente dispositivi IoT sparsi per il territorio) e ai loro consumatori (cittadini, pubblica amministrazione, aziende). L'attività di ricerca si sviluppa in tutte queste direzioni per progettare e realizzare infrastrutture IoT totalmente decentralizzate in cui l'utilizzo delle tradizionali tecnologie IoT e Cloud si combinano all'uso di tecnologie innovative quali i Trusted Platform Module (TPM) e le blockchain.

ALLEGATI

Elenco delle principali pubblicazioni

Il sottoscritto è a conoscenza che, ai sensi dell'art. 26 della legge 15/68, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali. Inoltre, il sottoscritto autorizza al trattamento dei dati personali, secondo quanto previsto dalla Legge 675/96 del 31 dicembre 1996.

Catania, 06/02/2019



Main scientific publications

- V.Catania, L.Milazzo, A.Puliafito, and L.Vita, "Enhancing reliability in an industrial LAN: design and performability evaluation," *IEEE Transactions on Industrial Electronics*, vol. 37, pp. 433-441, Dec. 1990.
- V.Catania, A.Puliafito, and L.Vita, "A modular-network architecture for performance enhancement in extended Local Area Network," *IEEE Transactions on Reliability*, vol. 42, pp. 50-62, Mar. 1993.
- V.Catania, A.Puliafito, and L.Vita, "A model for performance evaluation of gracefully degrading systems," *The Computer Journal*, vol. 36, no. 2, pp. 177-185, 1993.
- V.Catania, A.Puliafito, and L.Vita, "High speed data service in distributed systems based on SMDS," *Computer Communications*, vol. 16, pp. 394-402, July 1993.
- V.Catania, A.Puliafito, and L.Vita, "A modelling framework to evaluate performability parameters in gracefully degrading system," *IEEE Transactions on Industrial Electronics*, vol. 40, pp. 461-472, Oct. 1993.
- V.Catania, A.L. Corte, A.Puliafito, and L.Vita, "A simulation study of DQDB metropolitan area network," *Simulation*, vol.62, pp.158-171, Mar. 1994.
- V.Catania, S.Cavaliere, A.Puliafito, and L.Vita, "A parallel VLSI approach to implement network protocols," *Journal of Microcomputer Applications*, vol.17, pp.147-170, Apr. 1994.
- S.Casale, V.Catania, A.Puliafito, and L.Vita, "A remote bridging technique to increase performability in distributed systems," *IEEE Transactions on Industrial Electronics*, vol.41, Apr. 1994.
- V.Catania, A.L. Corte, A.Puliafito, and L.Vita, "A simulation of DQDB behaviour with data and multimedia traffic," *Transactions of the Society for Computer Simulation*, vol.11, Oct. 1994.
- A.Puliafito, "Revision of RAID high-performance, reliable secondary storage by P.M. Chen et al.," *ACM Computing Review*, vol.36, p.252, May 1995.
- V.Catania, A.Puliafito, S.Riccobene, and L.Vita, "Design and performance analysis of a disk array system," *IEEE Transactions on Computers*, vol.44, Oct. 1995.
- R. A. Sanher, K. S. Trivedi, A. Puliafito, *Performance and Reliability Analysis of Computer Systems*. KLUWER ACADEMIC PUBLISHERS, 1995.
- V.Catania, A.Puliafito, G.Ascia, and L.Vita, "A reconfigurable parallel architecture for a fuzzy processor," *Information Sciences*, vol.88, pp.299-315, Jan. 1996.
- V.Catania, I.L. Paglia, A.Puliafito, and L.Vita, "A real time data service in CIM environment," *International Journal of Computer Simulation*, vol.6, no.2, pp.237-268, 1996.
- V. Catania, A. Puliafito, S. Riccobene, L. Vita, *Design and Performance Analysis of a Disk Array System*, *IEEE TRANSACTIONS ON COMPUTERS*, vol. 44, p. 1236 - 1247, 1995. ISSN: 0018-9340.
- V. Catania, A. Puliafito, S. Riccobene, L. Vita, *Monitoring performance in distributed systems*. *Computer Communications*, vol. 19, p. 788 - 803, 1996.
- V. Catania, A. Puliafito, S. Riccobene, L. Vita, *An I/O subsystem supporting mass storage functions in parallel systems*, *COMPUTER STANDARDS & INTERFACES*, vol. 18; p. 117 - 138, 1996.
- F. Bergadano, A. Giallombardo, A. Puliafito, G. Ruffo, L. Vita, *Security agents for information retrieval in distributed systems*. *PARALLEL COMPUTING*, vol. 22; p. 1719 - 1731, 1997.
- A. Puliafito, O. Tomarchio, S.S. Trivedi L. Vita, *Increasing application accessibility through Java*, *IEEE INTERNET COMPUTING*, vol. 2; p. 70-77, ISSN: 1089-7801, 1998.
- A. Puliafito, M. Scarpa, K.S: Trivedi, *Petri nets with k simultaneously enabled generally distributed timed Transitions*. *PERFORMANCE EVALUATION*, vol. 1; p. 32, 1998.
- H. De Meer, A. Puliafito, J.P. Ritcher, O. Tomarchio, *Tunnel Agents for enhanced Internet QoS*, *IEEE CONCURRENCY*, vol. 6(2), ISSN: 1092-3063, 1998.
- I. Curcio, A. Puliafito, S. Riccobene, L. Vita, *Design and valuation of a Multimedia Storage Server for Mixed Traffic*, *ACM MULTIMEDIA SYSTEMS*, vol. vol.6, n.6, 1998.
- R. Fricks, A. Puliafito, K.S. Trivedi, *Performance analysis of distributed real-time databases*, *PERFORMANCE EVALUATION*, vol. 35; p. 145 - 169, 1999.
- Puliafito, O. Tomarchio, L. Vita, "MAP: Design and Implementation of a Mobile Agents Platform", in *Journal of Systems Architecture*, vol.46, n.2, pp.145-162, January 2000.
- Bobbio, A. Puliafito, M. Telek, "A Modeling Framework to Implement Preemption Policies in non-Markovian SPNs", in *Transactions on Software Engineering*, vol.26, n.1, January 2000.
- Puliafito, and O. Tomarchio, "Using Mobile Agents to Implement Flexible Network Management Strategies", *Computer Communications Journal*, vol. 23, pp. 708-719, January 2000.
- de Meer, A. La Corte, A. Puliafito, and O. Tomarchio, "Programmable Agents for Flexible Management in IP Networks", *IEEE Journal on Selected Areas in Communications*, vol.18, n.2, pp.256-267, February 2000.
- S. Palazzo, A. Puliafito, M. Scarpa, "Design and Evaluation of Replicated Databases for Mobile Systems", *Wireless Networks*, vol.6, pp. 131-144, July 2000.

- Puliafito, S. Riccobene, M. Scarpa, "Which paradigm should I use?: An analytical comparison of the client-server, remote evaluation and mobile agents paradigms", in *Concurrency and Computation: Practice & Experience*, vol. 13, pp. 71-94, 2001.
- La Corte, A. Puliafito, O. Tomarchio, "QoS Management in Programmable Networks Through Mobile Agents", in *Microprocessors and Microsystems*, vol. 25/2, pp. 115-120, Maggio 2001.
- S. Papavassiliou, A. Puliafito, O. Tomarchio, Jian Ye, "Mobile Agent Based Approach for Efficient Network management and Resource Allocation: Framework and Applications", in *IEEE Journal on Selected Areas in Communications*, Maggio 2002.
- D. Bruneo, M. Villari, A. Zaia, A. Puliafito, "QoS Management for MPEG4 Flows in Wireless Environment", in *Microprocessors and Microsystems Journal*, vol.27, issue 2, pp.85-92, Marzo 2003.
- Mancuso, M. Guarnera, A. Puliafito, M. Villari, "Digital still cameras and mobile agents: How to create a distributed service for image processing", in *ST Journal*, issue n. 0, pp. 38-51, Luglio 2003.
- V. Getov, Antonio Puliafito, Omer F. Rana, "Computational Grid and Web Services: Concepts, Functionalities, and Comparisons", in proc. *IEEE Int. Conf. on Computational Cybernetics*, Aug. 30 – Sept. 1, 2004 - Vienna, Austria
- M. Scarpa, M. Villari, A. Zaia, A. Puliafito, "A Modeling Technique for the Performance Analysis of Web Searching Application", in *IEEE Transaction on Knowledge & Data Engineering*, vol. 16, no. 11, November, 2004, pp. 1339-1356.
- Zaia, D. Bruneo, A. Puliafito, "Using Grid Paradigm for Multimedia Applications", in *Concurrency & Computation: Practice & Experience*. 2006, ISSN: 1532-0626.
- D. Bruneo, A. Zaia, A. Puliafito. Agent-based middleware to access Multimedia Services in a Grid Environment. *Multiagent and Grid Systems*. vol. 1, pp. 41-59, 2005, ISSN: 1574-1702, 2005.
- M.Fazio, M. Villari and A. Puliafito. IP Address Autoconfiguration in Ad Hoc Networks: Design, implementation and Measurements, *Computer Networks Journal*, Elsevier Science Publisher, 2006, ISSN: 1389-1286.
- D. Bruneo, A. Puliafito, M. Scarpa. Mobile Middleware: Definition and Motivations. In: A. Corradi. Mobile Middleware. LONDON: CRC PRESS (UNITED KINGDOM), 2006.
- M.Fazio, M. Villari and A. Puliafito AIPAC: Automatic IP Address Configuration in Mobile Ad Hoc Networks. *Computer Communications Journal*, Elsevier, 2006, vol. 29, pp. 1189-1200 ISSN: 0140-3664.
- S. Distefano, A. Puliafito, M. Scarpa., A Grid-based algorithm for the solution of non-Markovian stochastic Petri nets. *CONCURRENCY AND COMPUTATION*. vol. 18, pp. 1-18 ISSN: 1532-0626, 2006.
- D. Bruneo, L. Paladina, M. Paone, A.Puliafito, Signalling in Cellular IP Regions with QoS Support. *JOURNAL OF UBIQUITOUS COMPUTING AND INTELLIGENCE*. vol. 1, pp. 59-72 ISSN: 1555-132, 2007.
- Ragusa, F. Longo, A. Puliafito - *On The Assessment of the S-sicilia Infrastructure: A Grid-based Business System*. Lecture Notes in Computer Science, p. 113-124, 2008.
- Bruneo, M. Scarpa, A. Puliafito (2008). A GSPN Model to analyze performance parameters in gLite Grids. *17th IEEE International Workshop on Emerging Technologies for Next Generation GRID (ETNGRID '08)* IEEE CS press, Roma, 23-25 Maggio –Best Paper Award.
- S. Di Stefano, A. Puliafito - Dependability evaluation with dynamic reliability block diagrams and dynamic fault trees. *IEEE Transactions on Dependable and Secure Computing*, vol. 6, issue 1, pp. 4-17, 2009.
- V. D. Cunsolo, S. Distefano, A. Puliafito, M. Scarpa, *Cloud@Home: Bridging the Gap between Volunteer and Cloud Computing*. Lecture Notes in Computer Science, vol. 5754/2009, p. 423-432, 2009.
- L. Paladina, A. Biundo, M. Scarpa, A. Puliafito - *Artificial Intelligence And Synchronization In Wireless Sensor Networks*. Published on Journal of Networks (JNW) num.6, vol.4, pp.10, august 2009.
- F. Tusa, M. Villari, A. Puliafito - *Credential Management Enforcement And Secure Data Storage In Glite*. Published on International Journal of Distributed Systems and Technologies (IJ DST) , IGI Publishing edition, num.1, 2009.
- M. Scarpa, A. Puliafito - *Developing High Quality Software*. Published on Special issue of International Journal of Parallel, Emergent and Distributed Systems , Taylor & Francis Publisher edition, num.2, vol.24, pp.171-187, April 2009.
- Bruneo, G. Iellamo, G. Minutoli, A. Puliafito - *Gridvideo: A Practical Example Of Non-scientific Application On The Grid*. Published on IEEE Transactions on Knowledge and Data Engineering vol.21, pp.666-680, May 2009.
- M. Fazio, M. Villari, A. Puliafito - *Improvement Of Simulative Analysis In Ad Hoc Networks*. Published on International Journal of Business Data Communications and Networking (IJBDCN), IGI Publishing , 1548-0631 edition, num.1, vol.5, pp.40-59, January 2009.
- Bruneo, A. Puliafito, M. Scarpa, A. Zaia - *Mobile Middleware In Enterprise Systems*. Published on Handbook of Enterprise Integration Mostafa Hashem Sherif , 3rd edition, Auerbach Publications chap.6, New York - 10016 - U.S.A., November 2009.
- S. Distefano, A. Puliafito - *Reliability and Availability Analysis of Dependent-Dynamic Systems with DRB*., Reliability Engineering & System Safety, vol. 94, Issue 9; p. 1381-1393, 2009.
- Minutoli, M. Paone, M. Fazio, A. Puliafito - *Visualgrid: Enabling Runtime Applications Monitoring In Grid Environments*. Published on International Journal of Communication Networks and Distributed Systems , Inderscience Publishers edition, num.3, vol.5, pp.308-330, August 2010.
- S. Distefano, M. Scarpa, A. Puliafito - *Open And Interoperable Clouds: The Cloud@home Way*. Published on Cloud Computing: Principles, Systems and Applications Lee Gillam-Nick Antonopoulos Springer Verlag 2010.

- S. Distefano, M. Scarpa, A. Puliafito - *Implementation Of The Software Performance Engineering Development Process*. Published on Journal of Software, num.8, vol.5, pp.872-882, 2010.
- **S. Distefano, A. Puliafito, M. Scarpa - Gs3: A Grid Storage System With Security Features. Published on Journal of Grid Computing num.3, vol.8, pp.391-418, 2010.**
- S. Distefano, A. Puliafito, M. Scarpa - *Design And Modeling In the Software Performance Engineering Development Process*. Published on Journal of Circuits, Systems and Computers, World Scientific edition, num.1, vol.19, pp.307-323, February 2010.
- Tusa, M. Villari, A. Puliafito - *Credential Management Enforcement And Secure Data Storage In Glite*. Published on International Journal of Distributed Systems and Technologies (IJDST) , IGI Publishing edition, num.1, January 2010. ISSN 1947-353-2.
- S. Distefano, A. Puliafito, M. Scarpa - *Cloud@home: A New Enhanced Computing Paradigm*. Published on Handbook of Cloud Computing Borko Furht Springer June 2010.
- S. Distefano, A. Puliafito - *A Taxonomic Specification Of Cloud@home*. Published on Advanced Intelligent Computing Theories and Applications. With Aspects of Artificial Intelligence Springer Berlin/Heidelberg LNCS vol.6216/2010, pp.527-534, 2010.
- **D. Bruneo, M. Scarpa, A. Puliafito - Performance evaluation of gLite Grids through GSPNs. IEEE Transactions on Parallel and distributed Systems, vol. 21, p. 1611-1625, ISSN: 1045-9219, 2010.**
- S. Distefano, M. Scarpa, A. Puliafito - *A Representation Methodology For Performance Specifications In Uml Domain.*, in Computers in Human Behavior 2011, Elsevier publisher.
- Celesti, M. Villari, A. Puliafito, F. Longo - *An Approach For Security, Performance, And Generic Data Retrieval In Reservoir Clouds* in the International Journal of Information Assurance and Security (JIAS) , MIR Labs, Dynamic Publishers Inc., USA edition, vol.6, 2011.
- V. Karyotis, M. Fazio, S. Papavassiliou, A. Puliafito - *Comparison Of Efficient Random Walk Strategies For Wireless Multi-hop Networks*. Computer Communications, Elsevier 2011.
- M. Fazio, M. Villari, A. Puliafito - *Fourier-based Assessment Strategies For Simulated Ad Hoc Networks*. Published on Recent Advances in Broadband Integrated Network Operations and Services Management, IGI Publishing 2011.
- D. Cunsolo, S. Distefano, A. Puliafito, M. Scarpa - *Information Security in Data and Storage Grids through GS3*, COMPUTATIONAL AND DATA GRIDS: Principles, Designs, and Applications, ed. Nikolaos P. Preve, IGI Global, September 2011.
- Celesti, F. Tusa, M. Villari, A. Puliafito - *Intercloud: The Future Of Cloud Computing. Concepts And Advantages*. in "Cloud Computing: Methodology, Systems, and Applications" Book , CRC, Taylor & Francis group 2011.
- D. Bruneo, F. Longo, M. Scarpa, A. Puliafito - *Performance analysis of job dissemination techniques in Grid systems*. Published on Concurrency and Computation: Practice and Experience , John Wiley & Sons, Ltd. edition, num.11, vol.23, pp.1213 - 1235, 2011.
- S. Distefano, A. Puliafito, T. Kishor - *Performance and Dependability Modeling of Dynamic Systems.* Published on International Journal of Performability Engineering RAMS Consultant num.5, vol.7, pp.402-404, 2011.
- M. Fazio, M. Villari, A. Puliafito - *Fourier-based assessment strategies for simulated ad hoc networks*. Published on Recent Advances in Broadband Integrated Network Operations and Services Management, IGI Publishing 2011.
- **S. Distefano, A. Puliafito, M. Scarpa - From UML to Petri Nets: the PCM-based Methodology. Published on IEEE Transaction on Software Engineering , IEEE Computer Society edition, vol.37, pp.65-79, January 2011.**
- A. Celesti, F. Tusa, M. Villari, A. Puliafito - *Federation Establishment Between CLEVER Clouds Through a SAML SSO Authentication Profile*. Published on International JOURNAL on Advances in Internet Technology , IARIA edition, num.12, vol.4, pp.14-27, 2011.
- S. Distefano, A. Puliafito - *Cloud@Home: Goals, Challenges and Benefits of a Volunteer Cloud*. Published on HPC in the Cloud March 2011.
- V. Karyotis, M. Fazio, S. Papavassiliou, A. Puliafito - *Comparison of Efficient Random Walk Strategies for Wireless Multi-hop Networks*. Published on Computer Communications, Elsevier num.10, vol.34, July 2011
- A. Celesti, M. Villari, A. Puliafito - *An XRI Naming System for Dynamic and Federated Clouds: a Performance Analysis*. Published on International JOURNAL of Internet Services and Applications (JISA), Special Issue on Cloud Computing , Springer edition, num.3, vol.2, pp.191-205, 2011.
- A. Celesti, M. Villari, A. Puliafito, F. Longo - *An Approach for Security, Performance, and Generic Data Retrieval in RESERVOIR Clouds* . Published on the International JOURNAL of Information Assurance and Security (JIAS) , MIR Labs, Dynamic Publishers Inc., USA edition, num.4, vol.6, pp.262-272, April 2011.
- A. Celesti, F. Tusa, M. Villari, A. Puliafito - *An Approach for the Composition of Generic Cloud-Based Services Using XRI-Based APIs for Enabling New E-Business*. Published on International JOURNAL of E-Business Development (IJED) 2012. Url: <http://www.ij-ed.org/>. Note: ISSN Print 2225-7411 ISSN Online 2226-7336.
- F. Tusa, M. Paone, A. Celesti, M. Villari - *An Innovative Open Source Middleware for Managing Virtual Resources in Federated Clouds*. Published in the BOOK of Open Source Cloud Computing Systems: Practices and Paradigms IGI Global chap.4, pp.61-89, 2012.
- A. Celesti, F. Tusa, M. Villari, A. Puliafito - *An XDI-Based Approach to Represent and Exchange Data Between Federated Clouds*. Published in International JOURNAL on Advances in Internet Technology num.1-2, vol.5, 2012.

- D. Bruneo, S. Distefano, F. Longo, A. Puliafito, M. Scarpa - *Evaluating wireless sensor node longevity through Markovian techniques*. Published on *Computer Networks*, Elsevier edition, num.2, vol.56, pp.521 - 532, 2012.
- A. Celesti, F. Tusa, M. Villari, A. Puliafito - *How to Federate VISION Clouds Through SAML/Shibboleth Authentication*. Published in *International JOURNAL of Lecture Notes in Computer Science*, Springer 2012.
- M. Fazio, M. Paone, A. Puliafito, M. Villari - *HSCLOUD: Cloud Architecture for Supporting Homeland Security*. Published on *International Journal on Smart Sensing and Intelligent Systems* num.1, vol.5, pp.246-276, March 2012. Note: ISSN 1178-5608.
- S. Distefano, F. Longo, K. Trivedi - *Investigating dynamic reliability and availability through state-space models*. Published on *Computers and Mathematics with Applications*, Elsevier edition, 2012. Note: Published online.
- A. Celesti, F. Tusa, M. Villari - *Toward the Intercloud: Concepts and Advantages*. Published on *BOOK - Achieving Federated and Self-Manageable Cloud Infrastructures: Theory and Practice (FSCI11) IGI Global* pp.1-17, 2012.
- **A. Puliafito, M. Villari, M. Fazio, A. Celesti - Virtual Machine Provisioning Through Satellite Communications in Federated Cloud Environments**. Published on the *International JOURNAL of Future Generation Computer Systems*, ELSEVIER edition, n.1, vol.28, pp.85-93, January 2012.
- A. Celesti, F. Tusa, M. Villari, A. Puliafito - *An XDI-Based Approach to Represent and Exchange Data Between Federated Clouds*. Published on *International JOURNAL on Advances in Internet Technology*, IARIA edition, num.1-2, vol.5, pp.1-10, 2012. Url: http://www.iariajournals.org/internet_technology/index.html. Note: ISSN: 1942-2652.
- S. Distefano, A. Puliafito - *Cloud@Home: Toward a Volunteer Cloud*. Published on *IT Professional* num.1, vol.14, pp.27-31, 2012.
- N. Mitton, S. Papavassiliou, A. Puliafito, K. Trivedi - *Combining Cloud and sensors in a smart city environment*. Published on *EURASIP Journal on Wireless Communications and Networking* num.1, vol.2012, pp.1-10, 2012.
- S. Distefano, A. Puliafito, K. Trivedi - *Dynamic aspects and behaviors of complex systems in performance and reliability assessment*. Published on *ACM SIGMETRICS Performance Evaluation Review* num.4, vol.39, pp.71-78, 2012.
- A. Puliafito, S. Papavassiliou, T. Kishor - *Editorial: Special Issue on Internet of Things: Convergence of Sensing, Networking, and Web Technologies*. Published on *EURASIP Journal on Wireless Communications and Networking* 2012.
- D. Bruneo, S. Distefano, F. Longo, A. Puliafito, M. Scarpa - *Evaluating wireless sensor node longevity through Markovian techniques*. Published on *Computer Networks*, Elsevier edition, num.2, vol.56, pp.521 - 532, 2012.
- A. Celesti, F. Tusa, M. Villari, A. Puliafito - *How to Federate VISION Clouds Through SAML/Shibboleth Authentication*. Published on *International JOURNAL of Lecture Notes in Computer Science*, Springer vol.7592/2012, pp.259-274, 2012. Url: <http://esocc2012.cs.unibo.it/index.html>. Note: download DOI: 10.1007/978-3-642-33427-6_22 ISSN: 03029743.
- M. Fazio, M. Paone, A. Puliafito, M. Villari - *HSCLOUD: Cloud Architecture for Supporting Homeland Security*. Published on *International Journal on Smart Sensing and Intelligent Systems* num.1, vol.5, pp.246-276, March 2012. Note: ISSN 1178-5608.
- S. Distefano, A. Puliafito, K. Trivedi - *Modeling Dynamic Behaviors of Complex Distributed Systems*. Published on *ACM SIGMETRICS Performance Evaluation Review* num.4, vol.39, pp.49-50, 2012. paper
- D. Bruneo, F. Longo, A. Puliafito - *Modeling Energy-Aware Cloud Federations with SRNs*. Published on *Transactions on Petri Nets and Other Models of Concurrency VI Lecture Notes in Computer Science* vol.7400, pp.277-307, 2012.
- S. Distefano, G. Merlino, A. Puliafito - *SAaaS: a framework for volunteer-based sensing Clouds*. Published on *JOURNAL of Parallel & Cloud Computing* num.2, vol.1, pp.21-33, 2012. Url: <http://pcc.academicpub.org/paperInfo.aspx?ID=14>. Note: ISSN online: 2304-9456, ISSN print: 2304-9464.
- **A. Puliafito, M. Villari, M. Fazio, A. Celesti - Virtual Machine Provisioning Through Satellite Communications in Federated Cloud Environments**. Published on the *International JOURNAL of Future Generation Computer Systems*, ELSEVIER edition, n.1, vol.28, pp.85-93, January 2012. Url: http://www.elsevier.com/wps/find/journaldescription.cws_home/505611/description#description. Note: ISSN: 0167-739.
- A. Celesti, F. Tusa, M. Villari, A. Puliafito - *An Approach for the Composition of Generic Cloud-Based Services Using XRI-Based APIs for Enabling New E-Business*, World Academic Publishing. Published on *International JOURNAL of E-Business Development (IJED)* num.2, vol.3, pp.64-74, May 2013. Url: <http://www.academicpub.org/ijed/>. Note: download paper ISSN Print 2225-7411 ISSN Online 2226-7336.
- **A. Cuomo, S. Distefano, A. Puliafito, M. Rak, O. Tomarchio, S. Venticinque, U. Villano - An SLA-based Broker for Cloud Infrastructures**. Published on *Journal of Grid Computing* num.1, vol.11, pp.1-25, 2013.
- F. Tusa, M. Villari, A. Puliafito, M. Paone - *How to exploit grid infrastructures for federated cloud purposes with CLEVER*. Published on *Int. J. Comput. Sci. Eng. - Inderscience Publishers* num.3, vol.8, pp.253-268, July 2013. Url: <http://dx.doi.org/10.1504/IJCSE.2013.055355>. Note: ISSN: 1742-7185 DOI = 10.1504/IJCSE.2013.055355.

- M. Fazio, A. Puliafito, S. Distefano - Managing volunteer resources in the cloud. Published on International Journal of Computational Science and Engineering , Inderscience publishers edition, num.3, vol.8, 2013.
- **D. Bruneo, S. Distefano, F. Longo, A. Puliafito, M. Scarpa - Workload-Based Software Rejuvenation in Cloud Systems . Published on IEEE TRANSACTIONS ON COMPUTERS, n.6, vol.62, pp.1072-1085, 2013.**
- A. Celesti, M. Villari, A. Puliafito - *A Diversified Set of Security Features for XMPP Communication Systems Useful in Cloud Computing Federation*. Published on International Journal on Advances in Security, IARIA edition, num.3-4, vol.6, pp.99-110, December 2013. Url: <http://www.iariajournals.org/security/>. Note: ISSN: 1942-2636
- M. Fazio, A. Celesti, A. Puliafito, M. Villari - *A Message Oriented Middleware for Cloud Computing To Improve Efficiency in Risk Management Systems*. Published on Scalable Computing: Practice and Experience (SCPE) - Scientific International JOURNAL for Parallel and Distributed Computing , Special Issue on Cloud for Internet of Things, Universitatea de Vest din Timisoara edition, num.4, vol.14, pp.201-213, December 2013. Url: <http://www.scpe.org/index.php/scpe/index>. Note: ISSN: 1895-1767; DOI: 10.12694/scpe.v14i4.874.
- A. Celesti, F. Tusa, M. Villari, A. Puliafito - *An Approach for the Composition of Generic Cloud-Based Services Using XRI-Based APIs for Enabling New E-Business, World Academic Publishing*. Published on International JOURNAL of E-Business Development (IJED) num.2, vol.3, pp.64-74, May 2013. Url: <http://www.academicpub.org/ijed/>.
- M. Fazio, A. Puliafito, S. Distefano - *Managing volunteer resources in the cloud*. Published on International Journal of Computational Science and Engineering , Inderscience publishers edition, num.3, vol.8, 2013.
- *D. Mulfari, A. Celesti, M. Villari - A Computer System Architecture Providing a User-Friendly Man Machine Interface for Accessing Assistive Technology in Cloud Computing. Published on JOURNAL of System and Software , Elsevier edition, vol.100, pp.129-138, 2014. Url: <http://www.sciencedirect.com/science/article/pii/S0164121214002325>. Note: ISSN: 0164-1212.*
- D. Cerotti, S. Distefano, G. Merlino, A. Puliafito - *A cooperative approach for Mobile Crowdsensing applications*. Published on Informatica Quantitativa 2014.
- *S. Distefano, G. Merlino, A. Puliafito - A framework for device-centric sensing Cloud. Published on International Journal of Cloud Computing 2014.*
- M. Villari, A. Celesti, M. Fazio, A. Puliafito - *A Secure Self-Identification Mechanism for Enabling IoT Devices to Join Cloud Computing*. Published on PROCEEDINGS of the First International Conference on Safety and Security in Internet of Things Springer 28 October 2014. Url: <http://securityiot.eu/2014/show/home>.
- *S. Distefano, G. Merlino, A. Puliafito - A Utility Paradigm for IoT: the Sensing Cloud. Published on Pervasive and Mobile Computing 2014.*
- **Celesti, M. Fazio, M. Villari, A. Puliafito - Adding Long-Term Availability, Obfuscation, and Encryption to Multi-Cloud Storage Systems. Published on JOURNAL of Network and Computer Applications , Elsevier edition, 2014. Url: <http://www.sciencedirect.com/science/article/pii/S1084804514002288>. Note: ISSN: 1084-8045; Impact Factor: 1.772. DOI:<http://dx.doi.org/10.1016/j.jnca.2014.09.021> .**
- M. Fazio, A. Celesti, A. Puliafito, M. Villari - *An Integrated System for Advanced Multi-risk Management Based on Cloud for IoT*. Published on Advances onto the Internet of Things Salvatore Gaglio, Giuseppe Lo Re Springer International Publishing Advances in Intelligent Systems and Computing vol.260, pp.253-269, 2014. Url: http://link.springer.com/chapter/10.1007%2F978-3-319-03992-3_18.
- **S. Distefano, G. Merlino, A. Puliafito - Device-centric Sensing: an Alternative to Data-centric Approaches. Published on IEEE Systems Journal 2014.**
- M. Fazio, A. Puliafito, M. Villari - *IoT4S: a new architecture to exploit sensing capabilities in smart cities*. Published on International Journal of Web and Grid Services , Inderscience Publishers edition, num.2/3, vol.10, pp.114-138, 2014. Note: ISSN: 1741-1106.
- S. Papavassiliou, C. Papagianni, S. Distefano, G. Merlino, A. Puliafito - *M2M Interactions Paradigm via Volunteer Computing and Mobile Crowdsensing*. Published on Machine-To-Machine Communications - Architectures, Technology, Standards, and Applications ed. Vojislav Misic and Jelena Misic pub. Taylor & Francis chap.11, March 2014.
- S. Distefano, G. Merlino, A. Puliafito - *Mobiles For Sensing Clouds: The SAaaS4Mobile Experience*. Published on Scalable Computing: Practice and Experience num.4, vol.14, 2014.
- **D. Bruneo, A. Lhoas, F. Longo, A. Puliafito - Modeling and Evaluation of Energy Policies in Green Clouds. Published on IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS 2014.**
- D. Mulfari, A. Celesti, M. Villari, A. Puliafito - *Providing AT Applications as a Service Through Cloud Computing*. Published on (accepted) Assistive Technology. The Official JOURNAL of RESNA , Taylor & Francis edition, 2014. Url: <http://www.tandfonline.com/doi/abs/10.1080/10400435.2014.963258#.VDpLtnWSy00>. Note: ISSN 1040-0435 (Print), 1949-3614 (Online). 2013 Impact Factor: 1.300.
- Papavassiliou, S., C. Papagianni, S. Distefano, G. Merlino, and A. Puliafito, "M2M Interactions Paradigm Via Volunteer Computing And Mobile Crowdsensing", Machine-To-Machine Communications - Architectures, Technology, Standards, and Applications, Londra, Taylor & Francis, pp. 123–133, 2014.
- Distefano, S., G. Merlino, and A. Puliafito, "Mobiles for Sensing Clouds: the SAaaS4Mobile Experience", SCALABLE COMPUTING. PRACTICE AND EXPERIENCE, vol. 14, pp. 215–233, 2014.

- Longo, F., D. Bruneo, M. Villari, A. Puliafito, E. Salant, and Y. Wolfsthal, "Towards the future internet: The RESERVOIR, VISION cloud, and CloudWave experiences", *International Journal of High Performance Computing and Networking*, vol. 8, no. 3: Inderscience Enterprises Ltd., pp. 235-247, 2015.
- Puliafito, A., A. Celesti, M. Villari, and M. Fazio, "Towards the Integration Between IoT and Cloud Computing: An Approach for the Secure Self-Configuration of Embedded Devices", *International Journal of Distributed Sensor Networks*, vol. 2015, issue Leveraging the Internet of Things: Integration of Sensors and Cloud Computing Systems, pp. 1-9, 2016, 2015.
- **Distefano, S., G. Merlino, and A. Puliafito, "A Utility Paradigm For Iot: The Sensing Cloud", *PERVASIVE AND MOBILE COMPUTING*, vol. 20, pp. 127-144, 2015.**
- Longo, F., D. Bruneo, S. Distefano, and M. Scarpa, "Variable operating conditions in distributed systems: Modeling and evaluation", *Concurrency Computation Practice and Experience*, vol. 27, no. 10: John Wiley and Sons Ltd, pp. 2506-2530, 2015.
- Giacobbe, M., A. Celesti, M. Fazio, M. Villari, and A. Puliafito, "Towards Energy Management in Cloud Federation: A Survey in the Perspective of Future Sustainable and Cost-Saving Strategies", *Computer Networks*, pp. 438-452, 2015.
- Merlino, G., S. Arkoulis, S. Distefano, C. Papagianni, A. Puliafito, and S. Papavassiliou, "Mobile CrowdSensing as a Service: a platform for applications on top of Sensing Clouds", *Future Generation Computer Systems*, pp. -, 2015.
- Bruneo, D., A. Lhoas, F. Longo, and A. Puliafito, "Modeling and Evaluation of Energy Policies in Green Clouds", *IEEE Transactions on Parallel and Distributed Systems*, vol. 26, no. 11: IEEE Computer Society, pp. 3052-3065, 2015.
- G. Merlino, D. Bruneo, S. Distefano, F. Longo, A. Puliafito, A.H. Al-Anbuky, *A smart city lighting case study on an OpenStack-powered infrastructure, Sensors*, ISSN:14248220, Number:7, Volume: 15, pages 16314-16335, MDPI AG, 2015.
- Distefano, S., G. Merlino, and A. Puliafito, "A Framework For Device-centric Sensing Cloud", *JOURNAL OF CLOUD COMPUTING*, 2015.
- M. Fazio, A. Puliafito, **Cloud4sens: a cloud-based architecture for sensor controlling and monitoring**, *IEEE Communications Magazine*, ISSN: 0163-6804 , Number: 3 , Volume: 53, pages 41-47, 2015.
- Distefano, S., G. Merlino, and A. Puliafito, "Device-centric Sensing: an Alternative to Data-centric Approaches", *Systems Journal, IEEE*, vol. 9, no. 4, pp. -, Oct, 2015.
- M. Fazio, A. Celesti, A. Puliafito, and M. Villari, "Big Data Storage in the Cloud for Smart Environment Monitoring", *Procedia Computer Science*, vol. 52, pp. 500 - 506, 2015.
- Mulfari, D., A. Celesti, M. Fazio, M. Villari, and A. Puliafito, "Achieving Assistive Technology Systems Based on IoT Devices in Cloud Computing", *EAI Endorsed Transactions on Cloud Systems*, vol. 15, no. 1: ICST, 2, 2015.
- Celesti, A., M. Fazio, M. Villari, and A. Puliafito, "Adding long-term availability, obfuscation, and encryption to multi-cloud storage systems", *Journal of Network and Computer Applications*, vol. 59, pp. 208-218, 01/2016.
- D. Cerotti, S. Distefano, G. Merlino, A. Puliafito, **A Crowd-Cooperative Approach for Intelligent Transportation Systems**, *Intelligent Transportation Systems, IEEE Transactions on*, ISSN:1524-9050.
- Stecca, G., A. Puliafito, M. Simonetti, G. Mariotta, and P. Sciuto, "A cloud-based system to protect against industrial multi-risk events", *Procedia CIRP*, vol. 41, 02/2016.
- Celesti, A., M. Fazio, M. Villari, and A. Puliafito, "Adding long-term availability, obfuscation, and encryption to multi-cloud storage systems", *Journal of Network and Computer Applications*, vol. 59, pp. 208-218, 01/2016.
- Giacobbe, M., A. Puliafito, R. Di Pietro, and M. Scarpa, "A Context-aware Strategy To Properly Use IoT-Cloud Services", 2017 IEEE International Conference on Smart Computing (SMARTCOMP), Hong Kong - China, IEEE, pp. 1-6, 05/2017.
- Distefano, S., D. Bruneo, F. Longo, G. Merlino, and A. Puliafito, "Hospitalized Patient Monitoring and Early Treatment Using IoT and Cloud", *BioNanoScience*, vol. 7, no. 2: Springer New York LLC, pp. 382-385, 2017.
- Distefano, S., D. Bruneo, F. Longo, G. Merlino, and A. Puliafito, "Personalized Health Tracking with Edge Computing Technologies", *BioNanoScience*, vol. 7, no. 2: Springer New York LLC, pp. 439-441, 2017.
- Longo, F., D. Bruneo, S. Distefano, G. Merlino, and A. Puliafito, "Stack4Things: a sensing-and-actuation-as-a-service framework for IoT and cloud integration", *Annales des Telecommunications/Annals of Telecommunications - Institut Mines-Télécom and Springer-Verlag France*, vol. 72, no. 1-2: Springer-Verlag France, pp. 53-70, 2017.
- Bruneo, D., S. Distefano, F. Longo, G. Merlino, and A. Puliafito, "I/Ocloud: Adding an IoT dimension to cloud infrastructures", *Computer*, vol. 51, issue 1, no. 1: IEEE Computer Society, pp. 57-65, 2018.
- Kushwaha, N., G. Merlino, F. Longo, D. Bruneo, A. Puliafito, and O.P. Vyas, "Providing sensor services by data correlation: The #SmartME approach", *Advances in Intelligent Systems and Computing*, vol. 611, Torino, Italy - 10-12 July 2017, Springer Verlag, pp. 864-874, 2018.
- Dautov, R., S. Distefano, D. Bruneo, F. Longo, G. Merlino, A. Puliafito, and R. Buyya, "Metropolitan intelligent surveillance systems for urban areas by harnessing IoT and edge computing paradigms", *Software - Practice and Experience - John Wiley & Sons, Ltd.*, vol. 48, no. 8: John Wiley and Sons Ltd, pp. 1475-1492, 2018.
- Bruneo, D., S. Distefano, F. Longo, G. Merlino, and A. Puliafito, "I/Ocloud: Adding an IoT dimension to cloud infrastructures", *Computer*, vol. 51, issue 1, no. 1: IEEE Computer Society, pp. 57-65, 2018.

- Bruneo, D., F. Longo, G. Merlino, A. Puliafito, and N. Kushwaha, "Integrating IoT and cloud in a smart city context: The #SmartME case study", *International Journal of Computer Applications in Technology - Inderscience Enterprises Ltd.*, vol. 57, no. 4: Inderscience Enterprises Ltd., pp. 267-280, 2018.
- **Dautov, R., S. Distefano, D. Bruneo, F. Longo, G. Merlino, and A. Puliafito, "Data Processing in Cyber-Physical-Social Systems Through Edge Computing", *IEEE Access - IEEE*, vol. 6: Institute of Electrical and Electronics Engineers Inc., pp. 29822-29835, 2018.**
- Giacobbe, M., G. Pellegrino, M. Scarpa, and A. Puliafito, "An approach to implement the "Smart Office" idea: the #SmartMe Energy system", *Journal of Ambient Intelligence and Humanized Computing*, pp. 1-19, 05/2018.