

**Europass  
Curriculum Vitae**



**Personal information**

First name(s) / Surname(s) **Massimo Villari**  
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Telephone(s) 0039 090 676 5342  
Fax(es) 0039 090 676 5471 Mobile: 0039 347  
E-mail [mvillari@unime.it](mailto:mvillari@unime.it)  
Nationality Italian  
Date of birth May, yyy  
Gender Male

**Desired employment /  
Occupational field**

**Full Professor, University of Messina - Italy (Computer Science: INF-01; B-01)**

**Work experience**

Dates December 2018 – Onwards  
Occupation or position held Full Professor  
Main activities and responsibilities ICT Research and Teacher on Security Courses on Engineering and Computer Science.  
Teaching of courses:  
- **Basic Computer**  
- **Object Oriented Programming**  
- **Database**  
- **Security in Distributed Systems**  
- **Advanced Algorithms**  
Name and address of employer University of Messina – Italy

**Work experience**

Rector delegate on ICT for whole University of Messina

Dates April 2019 – Onwards

|                                      |   |
|--------------------------------------|---|
| Occupation or position held          | Rector delegate   |
| Main activities and responsibilities | ICT Consultant for the whole University for Digitalization of public administration process       |
| Name and address of employer         | University of Messina – Italy   |
| Dates                                | November 2018 - Onwards   |
| Occupation or position held          | Scientific Responsible and Consultant   |
| Main activities and responsibilities | Design of Smart Cities Scenarios and applications in Messina Municipality                         |
| Name and address of employer         | ICT – for Smart Cities  |
| Type of business or sector           | Smart City  |
| Name and address of employer         | Municipality of Messina   |
| Dates                                | October 2018 - Onwards  |
| Occupation or position held          | Head of Computer Science School   |
| Main activities and responsibilities | Coordination of all Didactical Activities in Computer Science School in the University of Messina |
| Name and address of employer         | University of Messina – Italy   |
| Type of business or sector           | Academia and Didactical in ICT  |

**Work experience**

|                                      |  |
|--------------------------------------|--|
|                                      | Associate Professor  |
| Dates                                | November 2014 – December 2018  |
| Occupation or position held          | Associate Professor, University of Messina - Italy (Computer Science: INF-01; B-01)  |
| Main activities and responsibilities | ICT Research and Teacher on Security Courses on Engineering and Computer Science.<br>Teaching of courses: <ul style="list-style-type: none"><li>- <b>Basic Computer</b></li><li>- <b>Object Oriented Programming</b></li><li>- <b>Database</b></li><li>- <b>Security in Distributed Systems</b></li><li>- <b>Advanced Algorithms</b></li></ul> |
| Name and address of employer         | University of Messina – Italy  |
| Dates                                | July 2016 - December 2018  |
| Occupation or position held          | Scientific Responsible   |
| Main activities and responsibilities | Design of a Cloud Architecture for managing Workflows and Tele Medicine for Remote Patience Control, in eHealth scenarios.   |
| Name and address of employer         | ICT – for eHealth: Cloud Computing for Workflows and Tele Medicine   |
| Type of business or sector           | IRCCS  |
| Name and address of employer         | University of Messina – IRCCS Italy  |
| Dates                                | February 2015 November 2016  |
| Occupation or position held          | System Architect   |
| Main activities and responsibilities | Design of a Federated Cloud Architecture in Networking for BEACON Project; Coordination of UniME Activities  |
| Name and address of employer         | BEACON Project,<br>ICT - Cloud Computing, IaaS: networking in federation   |
| Type of business or sector           | European Project H2020: Large  |
| Dates                                | March 2015 Onwards   |
| Occupation or position held          | System Architect   |

|                                      |  |
|--------------------------------------|--|
| Main activities and responsibilities | Design of the Cloud Service Brokerage and Storage Architectures for Cloud for Europe (C4E) Project; Coordination of UniME Activities   |
| Name and address of employer         | C4E Project,<br>ICT - Cloud Computing, IaaS, Cloud Service Brokerage: computational storage.   |
| Dates                                | July 2014 October 2016   |
| Occupation or position held          | Cloud Support: Cooperation and Support Action (CSA)  |
| Main activities and responsibilities | ICT Consultant on Cloud Computing in the context of FIWARE for frontierCities FIWARE Accelerator.  |
| Name and address of employer         | University of Messina – Italy  |
| Type of business or sector           | European Project FP7: CSA  |
| Dates                                | November 2013 - February 2015  |
| Occupation or position held          | System Architect   |
| Main activities and responsibilities | Design of a DevOps Cloud Architecture for CloudWave Project; Coordination of UniME Activities  |
| Name and address of employer         | BEACON Project,<br>ICT - Cloud Computing, IaaS: Dev Ops infrastructure.  |
| Type of business or sector           | European Project FP7: IP   |
| Dates                                | October 2010 October 2014  |
| Occupation or position held          | System Architect   |
| Main activities and responsibilities | Design of a Cloud Storage Architecture for VISION-CLOUD Project; Coordination of UniME Activities  |
| Name and address of employer         | VISION-CLOUD Project,<br>ICT - Cloud Computing, IaaS : computational storage   |
| Type of business or sector           | European Project FP7: IP   |
| Dates                                | January 2006 –October 2014   |
| Occupation or position held          | Aggregate Professor  |
| Main activities and responsibilities | Teaching of courses:<br>- <b>Basic Computer</b><br>- <b>Object Oriented Programming</b><br>- <b>Database</b><br>- <b>Security in Distributed Systems</b><br>- <b>Advanced Algorithms</b> |
| Name and address of employer         | Faculties of Engineering, Economics and Medicine, University of Messina<br>Messina, Italy  |

|                                      |  |
|--------------------------------------|--|
| Type of business or sector           | Italian Public University  |
| Dates                                | 2002   |
| Occupation or position held          | Internship   |
| Main activities and responsibilities | Software Engineering:<br>- Development of new video streaming technologies MP4 based, on IP wired and wireless infrastructures; MPEG4IP project<br>- Network Mobility on IPv6: Mobile Routers; NEMO project. |
| Name and address of employer         | Cisco Systems, Sophia Antipolis - France   |
| Type of business or sector           | United States ICT Company, World Wide Leader in Networking   |
| Dates                                | 2000 - 2001  |
| Occupation or position held          | Researcher / Independent Consultant  |
| Main activities and responsibilities | Design of an architecture for the inter-cooperation among Mobile Agents and Digital Still Cameras.   |
| Name and address of employer         | STMicroelectronics<br>Catania Site - Italy   |
| Type of business or sector           | European Electronic Devices Manufacturer   |

### Education and training

|  |  |
|--|--|
| Dates  | 1999/00 – 2001/00  |
| Title of qualification awarded                                 | PhD on <i>Advance Technologies for Information Engineering</i>                                 |
| Principal subjects/occupational skills covered                 | Thesis Title:<br><i>Mobile IP: Support for Mobile Networks in tree hierarchy architecture.</i> |
| Name and type of organisation providing education and training | Faculty of Engineering, University of Messina<br>Messina, Italy                                |
| Level in national or international classification              | ISCED 6  |
| Dates  | 2001 – 2003  |
| Title of qualification awarded                                 | University expert on the subject of Distributed Systems  |
| Principal subjects/occupational skills covered                 | Academic Tutoring and Research in the ICT area   |
| Name and type of organisation providing education and training | Faculty of Engineering, University of Messina<br>Messina, Italy                                |
| Level in national or international classification              | NC   |
| Dates  | 1992/93 – 1998/99  |
| Title of qualification awarded                                 | Master Degree of Electronic Engineering  |

Principal subjects/occupational skills covered | Thesis Title:  
*Techniques of Real Time Computer Vision for Gesture Recognition*  
 (Real-Time image analysis for extrapolation of information)

Name and type of organisation providing education and training | Faculty of Engineering, University of Messina  
 Messina, Italy

Level in national or international classification | ISCED 5

Dates | 1992

Title of qualification awarded | Industrial Engineer

Principal subjects/occupational skills covered | Studies on Engineering Topics

Name and type of organisation providing education and training | ITIS Verona Trento, Public Technical Institute

Level in national or international classification | ISCED 4

**Personal skills and competences**

Mother tongue(s) | **Italian**

Other language(s)  
 Self-assessment  
 European level (\*)

**English**

**French**

| Understanding |                 |         |                 | Speaking           |                  |                   |                 | Writing |                 |
|---------------|-----------------|---------|-----------------|--------------------|------------------|-------------------|-----------------|---------|-----------------|
| Listening     |                 | Reading |                 | Spoken interaction |                  | Spoken production |                 |         |                 |
| C1            | Proficient User | C2      | Proficient User | B2                 | Independent User | C1                | Proficient User | C1      | Proficient User |
| A2            | Basic User      | A2      | Basic User      | A2                 | Basic User       | A1                | Basic User      | A1      | Basic User      |

(\*) [Common European Framework of Reference for Languages](#)

Social skills and competences

- Problem-solving attitude
- Strong referential values of fairness, equity and dignity
- Responsibility, Self-respect and self-reliance
- Ability to establish and maintain good working relations with people of different national and cultural backgrounds

Organisational skills and competences

Replace this text by a description of these competences and indicate where they were acquired. (Remove if not relevant, see instructions)

|                                  |  |
|----------------------------------|--|
| Technical skills and competences | <ul style="list-style-type: none"> <li>- Analytical skills helping to analyze a situation and coming forward with a logical solution.</li> <li>- Communications skills helping understand and put forward your point to the other.</li> <li>- Problem solving skills enabling to not get overwhelmed and solve the problem systematically.</li> <li>- Decision making skills enabling to make tough decisions at the need</li> </ul>   |
| Computer skills and competences  | <p>Competent with:</p> <ul style="list-style-type: none"> <li>- Operative Systems: Windows, Linux, Mac</li> <li>- Networking and Software Architecture Definition for Distributed Systems</li> <li>- Applicative Software: Suite Office, Autocad, Computer Graphic Software, Relational Database design.</li> <li>- Programming Languages: Java, C/C++, Python, Perl, PHP, Bash Script</li> <li>- Design of Advanced Security Systems in Distributed Systems.</li> </ul>   |
| Artistic skills and competences  | <p>Estimator and studier of Antonello da Messina Renaissance Painter (1430-1479).<br/> Discovered a place in Messina where he made a masterpiece, more of 500 years ago.<br/> PUBLICATION: Massimo Villari and Gianfranco Villari<br/> The Antwerp Crucifixion of Antonello da Messina the place of his inspiration in Camaro<br/> Electronic Imaging &amp; the Visual Arts, EVA 2011 Florence, 4 – 6 May 2011</p>   |
| Other skills and competences     | <p>Habilitation for the engineering profession. Registration on Engineers Order Register of Messina, Messina 14/06/1999.</p>   |
| Driving licence                  | A and B.   |
| <b>Additional information</b>    | <p>Since 2011: Fellow of IARIA, recognized as a Cloud computing expert.</p> <p><b>In 2014 recognized by an independent assessment (IEEE Cloud Computing Transaction, Issue April 2014) as a world-wide scientific researcher, top 27 classification, in the Cloud computing area.</b></p> <p>2008 onwards IEEE Society member, number 90368633.</p> <p>ACADEMIC SPINF-OFF:<br/> -Alma Digit, Innovative SME, in the Area of ICT. Spin-off of the Università di Messina. Gennaio 2017</p> <p>PATENTS:</p> <ul style="list-style-type: none"> <li>-European Patent: <i>“A new network approach to the Image Generation for DSC”</i> Inventors: Antonino Arena, Mirko Guarnera, Massimo Mancuso, Antonio Puliafito, Massimo Villari. May 2001.</li> <li>-USA Patent: <i>“Correspondent Router”</i> Inventors: Pascal Thubert, Marco Molteni, Massimo Villari, Erick Levy Albegnoli. September 2002</li> <li>-USA Patent: <i>“Route Server implementation using BGP”</i> Inventors: Pascal Thubert, Marco Molteni, Massimo Villari, Erick Levy Albegnoli. November 2002</li> <li>-USA Patent: <i>“Route Server implementation using DNS”</i> (Domain Name System) Inventors: Pascal Thubert, Marco Molteni, Massimo Villari, Erick Levy Albegnoli. November 2002.</li> </ul> |

**SUPERVISION OF GRADUATE  
STUDENTS AND  
POSTDOCTORAL FELLOWS**

2010 – 2020 Number of Postdocs: **8** at Università di Messina Messina, Italy  
2010 – 2020 Number of PhD Student: **8** at Università di Messina Messina, Italy  
2006 – 2020 Master/Bachelor Students: **115** (40/75) at Università di Messina Messina, Italy



## Teaching Activities

\_Teacher of the Software Engineering Program for Web Applications (ING / INF05) under the Master's degree in E-business and ICT for Management - Academic Year 2010/2011 funded by the Sicily Region with D.D.G. n. 3285 / III / IS of 30/07/2010, filed on P.O.

Convergence Goal 2007/2013 F.S.E., Sicilian Region, Human Capital Axis.

\_Teacher of the Security module in the networks, in the II LEVEL UNIVERSITY MASTER in Open Source and Computer Security A.A. 2011/2012. Operational Program F.S.E.

Convergence objective 2007-2013 Sicilian Region - Axis IV - Human Capital - C.I.P. n.

2007.IT.051.PO.003 / IV / 12 / F / 9.2.14 / 1384 - C.U.P.N.J45110000300009

**2010-2011** Aggregate Professor at the Università di Messina, page 32 of 36 Teaching Information Processing Systems, 6 CFUs, SSD ING-INF / 05, Year II Semester II. At the Faculty of Engineering. Degree Course in Computer and Telecommunication Engineering, Bachelor.

**2009-2010** Aggregate Professor at the Università di Messina, teaching Information Processing Systems, 6 CFUs, SSD ING-INF / 05, II semester II. At the Faculty of Engineering. Degree Course in Computer and Telecommunication Engineering, Bachelor.

\_Aggregate Professor at the Università di Messina, Database teaching, 6 CFU, SSD ING-INF / 05, year I semester I. At the Faculty of Engineering. Degree courses in Computer Engineering and Electronic Engineering, Master.

2008-2009 Aggregate Professor at the Università di Messina, teaching Information Processing Systems, 6 CFUs, SSD ING-INF / 05, II semester II. At the Faculty of

Engineering. Degree Course in Computer and Telecommunication Engineering, Bachelor..

\_Aggregate Professor at the Università di Messina, Database teaching, 6 CFU, SSD ING-INF / 05, year I semester I. At the Faculty of Engineering. Degree courses in Computer Engineering and Electronic Engineering, Master.

\_Professor of the Sicilian Interuniversity School for Secondary Teaching (SISSIS) of the Università di Messina, teaching of the "Didactic Databases Laboratory" (PHYSICO-INFORMATIC-MATHEMATIC, Degree Class 42 / A ).

\_Teacher of the Sicilian Interuniversity School of Specialization for Secondary Teaching (SISSIS) at the Università di Messina, on the teaching of "Visual Programming Didactic Laboratory" (PHYSICO-INFORMATIC-MATHEMATIC, Degree Class 42 / A ).

**2007-2008** \_Aggregate Professor at the Università di Messina, teaching Information Processing Systems, 6 CFU, SSD ING-INF / 05, Pag. 33 of 36 year II semester II. At the Faculty of Engineering. Degree Course in Computer and Telecommunications Engineering, Bachelor.

\_Aggregate Professor at the Università di Messina, Database teaching, 6 CFU, SSD ING-INF / 05, year I semester I. At the Faculty of Engineering. Degree courses in Computer Engineering and Electronic Engineering, Master.

\_Aggregate Professor at the Università di Messina Studies, Supplementing the Teaching of Computer Skills (4 CFUs) (C.L. Banca Finanza and Assicurazioni). Faculty of Economics at the Università di Messina.

\_Aggregate Professor at the Università di Messina, Supplementing the Information Systems Training Course (6CFU) (C.L. Economics and Computational Statistics). Faculty of Economics at the Università di Messina.

\_Professor of the Sicilian Interuniversity School for Secondary Teaching (SISSIS) of the Università di Messina, teaching of the "Didactic Databases Laboratory" (PHYSICO-INFORMATIC-MATHEMATIC, Degree Class 42 / A ).

\_Teacher of the Sicilian Interuniversity School for Secondary Teaching (SISSIS) of the Università di Messina, of the "Teaching Laboratory of Visual Programming" (PHYSICO-INFORMATIC-MATHEMATIC, Degree Class 42 / A ) in AA 2007/08 Department of Security in Systems, "Master in OPEN SOURCE AND SECURITY IN INFORMATICS" -ASSE III Human Resources -Misura 3.07- Action C - P.O.R. Sicilia 2000/2006 -n.prog. 5/564 project code 199-9 I.T. 16. 1.PO.011 / 3.07 / 9.2.14 / 0328

\_Teacher of the Module Security module module, "Master in OPEN SOURCE AND SECURITY COMPUTING" -ASSE III Human Resources -Misura 3.07- Action C - P.O.R.

## Teaching Activities

2006-2007 \_Aggregate Professor at the Università di Messina, ag. 34 of 36 Teaching Information Processing Systems, 6 CFUs, SSD ING-INF / 05, Year II Semester II. At the Faculty of Engineering. Bachelor Degree in Computer and Telecommunication Engineering, Bachelor ,  
\_Aggregate Professor at the Università di Messina, Database teaching, 6 CFUs, SSD ING-INF / 05, year I semester I. At the Faculty of Engineering. Degree courses in Computer Engineering and Electronics Engineering, Master ,  
\_Professor of the Sicilian Interuniversity School for Secondary Teaching (SISSIS) of the Università di Messina, teaching of the "Didactic Databases Laboratory" (PHYSICO-INFORMATIC-MATHEMATIC, Degree Class 42 / A ).  
\_Teacher of the Sicilian Interuniversity School for Secondary Teaching (SISSIS) of the Università di Messina, of the "Teaching Laboratory of Visual Programming" (PHYSICO-INFORMATIC-MATHEMATIC, Degree Class 42 / A) in AA 2006/07

2005-2006 \_Adjunct Professor at the Università di Messina, teaching of Computer Fundamentals, 3 CFUs, SSD ING-INF / 05, year I semester II. Presso the Faculty of Engineering. Degree Course in Industrial Engineering Engineering, Bachelor ,  
\_Adjunct Professor at the Università di Messina, Teaching Computer Laboratory, 6 CFU, SSD ING-INF / 05, year I semester II. At the Faculty of Engineering. Degree Course in Computer and Telecommunication Engineering, Bachelor.  
\_Adjunct Professor at the Università di Messina, teaching information processing systems, 6 CFU, SSD ING-INF / 05, year II semester I. At the Faculty of Engineering. Bachelor Degree in Computer and Telecommunication Engineering, Bachelor ,  
\_Adjunct Professor at the Università di Messina, Database teaching, 6 CFU, SSD ING-INF / 05, year I semester I. At the Faculty of Engineering. Degree courses in Computer Engineering and Electronic Engineering, Master , A.A.2005 / 2006. Teacher, of the Interuniversity School of Sicilian Specialization Perag. 35 of 36 Secondary Teaching (SISSIS) of the Università di Messina, teaching of "Didactic Databases Laboratory" (PHYSICO-INFORMATIC-MATHEMATIC, Enrollment Class 42 / A).  
\_Teacher of the Sicilian Interuniversity School of Specialization for Secondary Education (SISSIS) of the Università di Messina, of the "Teaching Laboratory of Visual Programming" (PHYSICO-INFORMATIC-MATHEMATIC, Degree Class 42 / A) in AA 2005 / 06.

2004-2005 \_Adjunct Professor at the Università di Messina, teaching of Computer Fundamentals, 3 CFU, SSD ING-INF / 05, year I semester II. At the Faculty of Engineering. Degree Course in Industrial Engineering Engineering, Bachelor.  
\_Adjunct Professor at the Università di Messina, teaching of Computer Laboratory, 6 CFU, SSD ING-INF / 05, year I semester II. At the Faculty of Engineering. Degree in Computer Science and Telecommunications Engineering, Bachelor.  
\_Teacher of the SQL Language Module in the courses of WEB1 Designer and WEB2 Designer, held at the Consorzio Universitario Internazionale Turistico Internazionale (CUFTI) in Taormina, June 2004.

2003-2004 \_Adjunct Professor at the Università di Messina, Teaching Computer Fundamentals, 3 CFUs, SSD ING-INF / 05, year I semester II. At the Faculty of Engineering. Degree Course in Industrial Engineering Engineering, Bachelor .  
\_Adjunct Professor at the Università di Messina, teaching of Computer Laboratory, 6 CFU, SSD ING-INF / 05, year I semester II. At the Faculty of Engineering. Degree Course in Computer and Telecommunication Engineering, Bachelor.  
\_Teacher in Higher Education and Training (IFTS): Course title: "Expert in telematic and technological networks": Application Design for Intranet 1. ag. 36 of 36 module Application Design for Intranet 2. Course title: "Multimedia Consultant for Tourism Promotion": module Multimedia Applications: Tourism and Cataloging of Cultural Heritage.

## Publications

# Villari, Massimo

Università degli Studi di Messina, Messina, Italy  
Author ID:12645423500

Analyze documents published between: 2001 to 2021

Exclude self citations  Exclude citations from books

Update Graph

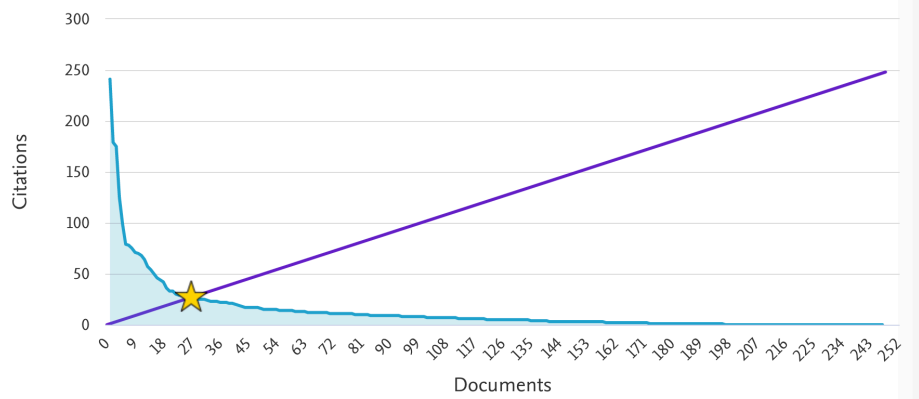
Documents ↓ Citations ↓ Title ↓

| Rank | Citations | Title                    |
|------|-----------|--------------------------|
| 1    | 241       | How to enhance clou...   |
| 2    | 179       | Reservoir - When on...   |
| 3    | 175       | Osmotic Computing...     |
| 4    | 125       | Internet of Things an... |
| 5    | 99        | PEA: Parallel electro... |
| 6    | 79        | Exploring Container ...  |
| 7    | 78        | Open Issues in Sche...   |
| 8    | 75        | Security and cloud c...  |
| 9    | 71        | Three-phase Cross-C...   |

## This author's *h*-index

27

The *h*-index is based upon the number of documents and number of citations.





Massimo Villari

STAI SEGUENDO

University of Messina

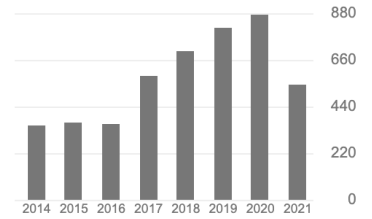
Email verificata su unime.it - Home page

Osmotic Computing Cloud Computing Fog-Edge Computing IoT IT Security

| TITOLO  | CITATA DA | ANNO |
|---|-----------|------|
| <input type="checkbox"/> <a href="#">How to enhance cloud architectures to enable cross-federation</a><br>A Celesti, F Tusa, M Villari, A Puliafito<br>2010 IEEE 3rd international conference on cloud computing, 337-345                   | 433       | 2010 |
| <input type="checkbox"/> <a href="#">Reservoir-when one cloud is not enough</a><br>B Rochwerger, D Breitgand, A Epstein, D Hadas, I Loy, K Nagin, ...<br>Computer 44 (3), 44-51   | 351       | 2011 |
| <input type="checkbox"/> <a href="#">Osmotic computing: A new paradigm for edge/cloud integration</a><br>M Villari, M Fazio, S Dustdar, O Rana, R Ranjan<br>IEEE Cloud Computing 3 (6), 76-83   | 244       | 2016 |
| <input type="checkbox"/> <a href="#">Internet of Things and edge cloud computing roadmap for manufacturing</a><br>D Georgakopoulos, PP Jayaraman, M Fazio, M Villari, R Ranjan<br>IEEE Cloud Computing 3 (4), 66-73                         | 192       | 2016 |
| <input type="checkbox"/> <a href="#">Exploring container virtualization in IoT clouds</a><br>A Celesti, D Mulfari, M Fazio, M Villari, A Puliafito<br>2016 IEEE international conference on Smart Computing (SMARTCOMP), 1-6                | 132       | 2016 |
| <input type="checkbox"/> <a href="#">Security and cloud computing: Intercloud identity management infrastructure</a><br>A Celesti, F Tusa, M Villari, A Puliafito<br>2010 19th IEEE International Workshops on Enabling Technologies ...    | 129       | 2010 |
| <input type="checkbox"/> <a href="#">Open issues in scheduling microservices in the cloud</a><br>M Fazio, A Celesti, R Ranjan, C Liu, L Chen, M Villari<br>IEEE Cloud Computing 3 (5), 81-88  | 127       | 2016 |
| <input type="checkbox"/> <a href="#">PEA: Parallel electrocardiogram-based authentication for smart healthcare systems</a><br>Y Zhang, R Gravina, H Lu, M Villari, G Fortino<br>Journal of Network and Computer Applications 117, 10-16     | 116       | 2018 |
| <input type="checkbox"/> <a href="#">Three-phase cross-cloud federation model: The cloud sso authentication</a><br>A Celesti, F Tusa, M Villari, A Puliafito<br>2010 Second International Conference on Advances in Future Internet, 94-101 | 116       | 2010 |
| <input type="checkbox"/> <a href="#">Big data storage in the cloud for smart environment monitoring</a><br>M Fazio, A Celesti, A Puliafito, M Villari<br>Procedia Computer Science 52, 500-506  | 104       | 2015 |
| <input type="checkbox"/> <a href="#">AllJoyn Lambda: An architecture for the management of smart environments in IoT</a><br>M Villari, A Celesti, M Fazio, A Puliafito<br>2014 International Conference on Smart Computing Workshops, 9-14  | 101       | 2014 |

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|-----------|-------|----------|
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| i10-index | 119   | 97       |



Accesso pubblico [VISUALIZZA TUTTO](#)

24 articoli [5 articoli](#)  
Non disponibili [Disponibili](#)

In base ai mandati di finanziamento

Coautori [MODIFICA](#)

- Antonio Celesti**  
Assistant Professor in Computer ... >
- Maria Fazio**  
Università di Messina >
- Francesco Tusa**  
Department of Electronic and Ele... >
- Antonino Galletta**  
University of Messina >
- Rajiv Ranjan**  
Distinguished Professor, Academ... >
- Lorenzo Carnevale**  
University of Messina >

Buzachis, A., Boruta, D., Villari, M., Spillner, J.

57202386934;57221928878;12645423500;14042825100;

Modeling and Emulation of an Osmotic Computing Ecosystem using OsmoticToolkit

(2021) ACM International Conference Proceeding Series, art. no. 3444366, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0->

85100666106&doi=10.1145%2f3437378.3444366&partnerID=40&md5=ee460ed65f2c7344e56d5fa4c  
ee88f7e

DOI: 10.1145/3437378.3444366

AFFILIATIONS: University of Messina, Italy;

Universidad Nacional Del sur, Argentina;

Zurich University of Applied Sciences, Switzerland

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8835400800;57221675839;30567693400;12645423500;

Drivers' workload measures to verify functionality of ferry boats boarding area

(2020) Archives of Transport, 56 (4), pp. 7-17.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099755473&doi=10.5604%2f01.3001.0014.5506&partnerID=40&md5=3b9d78c4b28b6f347a5260dc1d9edf13)

[85099755473&doi=10.5604%2f01.3001.0014.5506&partnerID=40&md5=3b9d78c4b28b6f347a5260dc1d9edf13](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099755473&doi=10.5604%2f01.3001.0014.5506&partnerID=40&md5=3b9d78c4b28b6f347a5260dc1d9edf13)

DOI: 10.5604/01.3001.0014.5506

AFFILIATIONS: Department of Engineering, University of Messina, Italy;

Department of Scienze Matematiche e Informatiche, Scienze Fisiche e Scienze della Terra, University of Messina, Italy

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ISSN: 08669546

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Spillner, J., Gkikopoulos, P., Buzachis, A., Villari, M.

14042825100;57215332454;57202386934;12645423500;

Rule-Based Resource Matchmaking for Composite Application Deployments across IoT-Fog-Cloud Continuums

(2020) Proceedings - 2020 IEEE/ACM 13th International Conference on Utility and Cloud Computing, UCC 2020, art. no. 9302804, pp. 336-341.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099557806&doi=10.1109%2fUCC48980.2020.00053&partnerID=40&md5=5ee241b79462e1cada98dade4d8d728c)

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On the Applicability of Secret Share Algorithms for Osmotic Computing

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Carnevale, L., Celesti, A., Fiumara, G., Galletta, A., Villari, M.

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Blockchain-based healthcare workflow for tele-medical laboratory in federated hospital IoT clouds

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Panarello, A., Celesti, A., Fazio, M., Puliafito, A., Villari, M.  
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AFFILIATIONS: MIFT Department, University of Messina, Messina, Italy

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AFFILIATIONS: Universidad Del Rosario Bogotá, Colombia;

IBM Zürich Research Lab, Switzerland;

University of Messina, Italy;

Newcastle University, United Kingdom

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

Ranjan, R., Jayaraman, P.P., Villari, M., Georgakopoulos, D.

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AFFILIATIONS: School of Computing, Urban Sciences Building, Newcastle University, 1 Science Square, Science Central, Newcastle upon Tyne, NE4 5TG, United Kingdom;

School of Software and Electrical Engineering, Swinburne University of Technology, John Street, Hawthorn, VIC, Australia;

School of Engineering, University of Messina, Piazza Pugliatti, 1, Messina, ME 98122, Italy

PUBLISHER: Springer-Verlag Wien

Villari, M., Tricomi, G., Celesti, A., Fazio, M.

Orchestration for the deployment of distributed applications with geographical constraints in cloud federation

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AFFILIATIONS: Department of Mathematics and Computer Science, Physics and Earth Sciences, University of Messina, Contrada di Dio, Messina, 1 - 98166, Italy;

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IRCCS, Centro Neurolesi "Bonino Pulejo", Contrada Casazza, Messina, SS113 - 98124, Italy;

Alma Digit S.R.L. Research Labs, Contrada di Dio, Messina, 1 - 98166, Italy

PUBLISHER: SciTePress

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AFFILIATIONS: Dep. Ingegneria, University of Messina, Messina, Italy;

InterWay a.s., Bratislava, Slovakia

PUBLISHER: Springer Verlag

Giacobbe, M., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

Re-powering service provisioning in federated cloud ecosystems: An algorithm combining energy sustainability and cost-saving strategies

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AFFILIATIONS: Department of Engineering, University of Messina, Contrada Di Dio (S. Agata), Messina, 98166, Italy

PUBLISHER: Springer Verlag

Massonet, P., Dupont, S., Michot, A., Levin, A., Villari, M.

A motivating case study for coordinating deployment of security VNF in federated cloud networks

(2018) 707, pp. 34-42.

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AFFILIATIONS: CETIC Research Center, Charleroi, Belgium;

IBM Research Lab, Haifa, Israel;

University of Messina, Messina, Italy

PUBLISHER: Springer Verlag

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AFFILIATIONS: University of Messina, Italy;

Newcastle University, United Kingdom;

Italian National Council of Research, Italy;

Karlstad University, Sweden;

TU Wien, Austria

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

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[79090-9\\_5&partnerID=40&md5=2a6bdb999e34304fa7bae2224c563189](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045270485&doi=10.1007%2f978-3-319-79090-9_5&partnerID=40&md5=2a6bdb999e34304fa7bae2224c563189)

AFFILIATIONS: Lab MIASH and Lab MACS, Department of Computer Science and Mathematics, Faculty of Sciences, University Moulay Ismail, Meknes, Morocco;

Department of Engineering, University of Messina, Messina, Italy

PUBLISHER: Springer Verlag

Carnevale, L., Galletta, A., Celesti, A., Fazio, M., Paone, M., Bramanti, P., Villari, M.

Big data HIS of the IRCCS-ME future: The osmotic computing infrastructure

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AFFILIATIONS: Department of Engineering, University of Messina, Messina, Italy;

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PUBLISHER: Springer Verlag

Vanelli, B., Pinto, A.R., da Silva, M.P., Dantas, M.A.R., Fazio, M., Celesti, A., Villari, M.

IoT data storage in the cloud: A case study in human biometeorology

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AFFILIATIONS: Federal University of Santa Catarina, Florianópolis, Santa Catarina, Brazil;

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IRCCS Centro Neurolesi "Bonino Pulejo", Messina, Italy

PUBLISHER: Springer Verlag

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DOI: 10.1109/MCC.2018.1081070  
AFFILIATIONS: Swinburne University of Technology, Australia;  
University of Messina, Italy;  
Newcastle University, United Kingdom  
PUBLISHER: Institute of Electrical and Electronics Engineers Inc.  
ISSN: 23256095  
DOCUMENT TYPE: Article

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DOI: 10.1007/978-3-319-61566-0\_86  
PUBLISHER: Springer Verlag  
ISSN: 21945357  
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DOCUMENT TYPE: Conference Paper

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Preface  
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PUBLISHER: Springer Verlag

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DOCUMENT TYPE: Editorial

### [156]

Ranjan, R., Jayaraman, P.P., Villari, M., Georgakopoulos, D.

A note on resource management techniques and systems for big data workflow processing

(2018) Computing, 100 (1), .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041921014&doi=10.1007%2fs00607-018-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041921014&doi=10.1007%2fs00607-018-0586-9&partnerID=40&md5=21a74772903c304333394e68daa738d3)

[0586-9&partnerID=40&md5=21a74772903c304333394e68daa738d3](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041921014&doi=10.1007%2fs00607-018-0586-9&partnerID=40&md5=21a74772903c304333394e68daa738d3)

DOI: 10.1007/s00607-018-0586-9

Central, Newcastle upon Tyne, United Kingdom;

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School of Engineering, University of Messina, Piazza Pugliatti, 1, Messina, ME, Italy

PUBLISHER: Springer-Verlag Wien

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DOCUMENT TYPE: Editorial

### [155]

Villari, M., Tricomi, G., Celesti, A., Fazio, M.

Orchestration for the deployment of distributed applications with geographical constraints in cloud federation

(2018) Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, 189, pp. 177-187.

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DOCUMENT TYPE: Conference Paper

### [154]

Massonet, P., Dupont, S., Michot, A., Levin, A., Villari, M.

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IBM Research Lab, Haifa, Israel;  
University of Messina, Messina, Italy  
PUBLISHER: Springer Verlag  
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DOCUMENT TYPE: Conference Paper

**[153]**

Giacobbe, M., Celesti, A., Fazio, M., Villari, M., Puliafito, A.  
Re-powering service provisioning in federated cloud ecosystems: An algorithm combining energy sustainability and cost-saving strategies  
(2018) Communications in Computer and Information Science, 707, pp. 19-33.  
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DOI: 10.1007/978-3-319-72125-5\_2  
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DOCUMENT TYPE: Conference Paper

**[152]**

Vanelli, B., Pinto, A.R., da Silva, M.P., Dantas, M.A.R., Fazio, M., Celesti, A., Villari, M.  
IoT data storage in the cloud: A case study in human biometeorology  
(2018) Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, 189, pp. 253-262.  
[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034078740&doi=10.1007%2f978-3-319-67636-4\\_26&partnerID=40&md5=17c483f7d453cea0c63fafb24398df23](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034078740&doi=10.1007%2f978-3-319-67636-4_26&partnerID=40&md5=17c483f7d453cea0c63fafb24398df23)  
DOI: 10.1007/978-3-319-67636-4\_26  
AFFILIATIONS: Federal University of Santa Catarina, Florianópolis, Santa Catarina, Brazil;  
University of Messina, Messina, Italy;  
IRCCS Centro Neurolesi "Bonino Pulejo", Messina, Italy  
PUBLISHER: Springer Verlag  
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DOCUMENT TYPE: Conference Paper

**[151]**

Carnevale, L., Galletta, A., Celesti, A., Fazio, M., Paone, M., Bramanti, P., Villari, M.  
Big data HIS of the IRCCS-ME future: The osmotic computing infrastructure  
(2018) Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, 189, pp. 199-207.  
[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034108245&doi=10.1007%2f978-3-319-67636-4\\_21&partnerID=40&md5=7ee018e3874de2334c13001aa1a1376e](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034108245&doi=10.1007%2f978-3-319-67636-4_21&partnerID=40&md5=7ee018e3874de2334c13001aa1a1376e)

DOI: 10.1007/978-3-319-67636-4\_21

AFFILIATIONS: Department of Engineering, University of Messina, Messina, Italy;

IRCCS Centro Neurolesi "Bonino Pulejo", Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18678211

ISBN: 9783319676357

DOCUMENT TYPE: Conference Paper

### **J-[150]**

Lay-Ekuakille, A., Griffo, G., Fazio, M., Villari, M.

A Distributed Edge Computing Architecture to Support Sensing and Detecting Leaks in Waterworks Based on Advanced FDM

(2017) IEEE Sensors Journal, 17 (23), art. no. 7982790, pp. 7820-7827.

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[85028938270&doi=10.1109%2fJSEN.2017.2727984&partnerID=40&md5=fa224f3eb99e38b83ca95fd1a3a86a03](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028938270&doi=10.1109%2fJSEN.2017.2727984&partnerID=40&md5=fa224f3eb99e38b83ca95fd1a3a86a03)

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AFFILIATIONS: Department of Innovation Engineering, University of Salento, Lecce, Italy;

Department of Engineering, University of Messina, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 1530437X

DOCUMENT TYPE: Article

### **J-[149]**

Celesti, A., Galletta, A., Carnevale, L., Fazio, M., Lay-Ekuakille, A., Villari, M.

An IoT Cloud System for Traffic Monitoring and Vehicular Accidents Prevention Based on Mobile Sensor Data Processing

(2017) IEEE Sensors Journal, . Article in Press.

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[85035750192&doi=10.1109%2fJSEN.2017.2777786&partnerID=40&md5=c114a1ee55391b73e3f710c59037f77a](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035750192&doi=10.1109%2fJSEN.2017.2777786&partnerID=40&md5=c114a1ee55391b73e3f710c59037f77a)

DOI: 10.1109/JSEN.2017.2777786

AFFILIATIONS: Department of Engineering, University of Messina, Italy and Alma Digit Research Lab, Messina, Italy and on behalf of GNCS &#x2014; Gruppo Nazionale per il Calcolo Scientifico - INdAM.;

Department of Engineering, University of Messina, Italy and IRCCS Centro Neurolesi, Bonino Pulejo Messina, Italy.;

University of Salento, Lecce, Italy.;

Department of Engineering, University of Messina, Italy and Alma Digit Research Lab, Messina, Italy and IRCCS Centro Neurolesi, Bonino Pulejo Messina, Italy and on behalf of GNCS &#x2014; Gruppo Nazionale per il Calcolo Scientifico - INdAM.

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### **J-[148]**

Galletta, A., Carnevale, L., Celesti, A., Fazio, M., Villari, M.

A Cloud-Based System for Improving Retention Marketing Loyalty Programs in Industry 4.0: A Study on Big Data Storage Implications

(2017) IEEE Access, 6, pp. 5485-5492.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035799131&doi=10.1109%2fACCESS.2017.2776400&partnerID=40&md5=75084915d395d1eebf8a99b0b13569a6)

[85035799131&doi=10.1109%2fACCESS.2017.2776400&partnerID=40&md5=75084915d395d1eebf8a99b0b13569a6](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035799131&doi=10.1109%2fACCESS.2017.2776400&partnerID=40&md5=75084915d395d1eebf8a99b0b13569a6)

DOI: 10.1109/ACCESS.2017.2776400

AFFILIATIONS: Department of Engineering, University of Messina, Messina, Italy;

Alma Digit S. R. L, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 21693536

DOCUMENT TYPE: Article

### [147]

Villari, M., Celesti, A., Tricomi, G., Galletta, A., Fazio, M.

Deployment orchestration of microservices with geographical constraints for Edge computing

(2017) Proceedings - IEEE Symposium on Computers and Communications, art. no. 8024599, pp. 633-638.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030561572&doi=10.1109%2fISCC.2017.8024599&partnerID=40&md5=4e02b0cd5367fea7d4e7e76e497f17cd)

[85030561572&doi=10.1109%2fISCC.2017.8024599&partnerID=40&md5=4e02b0cd5367fea7d4e7e76e497f17cd](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030561572&doi=10.1109%2fISCC.2017.8024599&partnerID=40&md5=4e02b0cd5367fea7d4e7e76e497f17cd)

DOI: 10.1109/ISCC.2017.8024599

AFFILIATIONS: Department of Engineering, University of Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781538616291

DOCUMENT TYPE: Conference Paper

### J-[146]

Celesti, A., Mulfari, D., Fazio, M., Puliafito, A., Villari, M.

Evaluating alternative DaaS solutions in private and public OpenStack Clouds

(2017) Software - Practice and Experience, 47 (9), pp. 1185-1200.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017389896&doi=10.1002%2fspe.2498&partnerID=40&md5=d269e3baae58ae8e2deb808c767787f2)

[85017389896&doi=10.1002%2fspe.2498&partnerID=40&md5=d269e3baae58ae8e2deb808c767787f2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017389896&doi=10.1002%2fspe.2498&partnerID=40&md5=d269e3baae58ae8e2deb808c767787f2)

DOI: 10.1002/spe.2498

AFFILIATIONS: Scientific Research Op. U., University of Messina, Via Consolato del Mare, 41, Messina, Italy;

Department of Engineering, University of Messina, Contrada di Dio, Messina, Italy;

IRCCS Centro Neurolesi 'Bonino Pulejo', Messina, Italy

PUBLISHER: John Wiley and Sons Ltd

ISSN: 00380644

CODEN: SPEXB

DOCUMENT TYPE: Article

### [145]

Carnevale, L., Celesti, A., Fazio, M., Bramanti, P., Villari, M.

How to enable clinical workflows to integrate big healthcare data  
(2017) Proceedings - IEEE Symposium on Computers and Communications, art. no. 8024634, pp. 857-862.  
Cited 1 time.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030563414&doi=10.1109%2fISCC.2017.8024634&partnerID=40&md5=239a4c121877eb0647c18c745fb76b10>

DOI: 10.1109/ISCC.2017.8024634

AFFILIATIONS: Department of Engineering, University of Messina, Italy;

Scientific Research Organisational Unit, University of Messina, Italy;

IRCCS Centro Neurolesi 'Bonino Pulejo', Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781538616291

DOCUMENT TYPE: Conference Paper

### [144]

Galletta, A., Bonanno, L., Celesti, A., Marino, S., Bramanti, P., Villari, M.

An approach to share MRI data over the Cloud preserving patients' privacy

(2017) Proceedings - IEEE Symposium on Computers and Communications, art. no. 8024511, pp. 94-99.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030529823&doi=10.1109%2fISCC.2017.8024511&partnerID=40&md5=4975bb3b9dc2ddd9962c9d5bd1b7d3b6>

DOI: 10.1109/ISCC.2017.8024511

AFFILIATIONS: Department of Engineering, University of Messina, Italy;

IRCCS Centro Neurolesi Bonino Pulejo, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781538616291

DOCUMENT TYPE: Conference Paper

### [143]

Celesti, F., Celesti, A., Carnevale, L., Galletta, A., Campo, S., Romano, A., Bramanti, P., Villari, M.

Big data analytics in genomics: The point on Deep Learning solutions

(2017) Proceedings - IEEE Symposium on Computers and Communications, art. no. 8024547, pp. 306-309.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030565975&doi=10.1109%2fISCC.2017.8024547&partnerID=40&md5=3c359473fcb1c98211702f4274c77744>

DOI: 10.1109/ISCC.2017.8024547

AFFILIATIONS: Department of Engineering, University of Messina, Italy;

Department of Biomedical and Dental Sciences and Morphofunctional Images, University of Messina, Italy;

IRCCS Centro Neurolesi Bonino Pulejo, Messina, Italy;

Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781538616291

DOCUMENT TYPE: Conference Paper

**[142]**

Galletta, A., Celesti, A., Tusa, F., Fazio, M., Bramanti, P., Villari, M.

Big MRI data dissemination and retrieval in a multi-cloud hospital storage system

(2017) ACM International Conference Proceeding Series, Part F128634, pp. 162-166.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025438511&doi=10.1145%2f3079452.3079507&partnerID=40&md5=39f091c6f1f0f8cb70e6de6ac63e7b81)

[85025438511&doi=10.1145%2f3079452.3079507&partnerID=40&md5=39f091c6f1f0f8cb70e6de6ac63e7b81](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025438511&doi=10.1145%2f3079452.3079507&partnerID=40&md5=39f091c6f1f0f8cb70e6de6ac63e7b81)

DOI: 10.1145/3079452.3079507

AFFILIATIONS: Department of Engineering, University of Messina, Messina, Italy;

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Department of Electronic and Electrical Engineering, University College London, London, United Kingdom;

IRCCS Centro Neurolesi, Bonino Pulejo Messina, Italy;

Department of Engineering, University of Messina, IRCCS Centro Neurolesi, Bonino Pulejo Messina, Italy

PUBLISHER: Association for Computing Machinery

ISBN: 9781450352499

DOCUMENT TYPE: Conference Paper

**J-[141]**

Villari, M., Fazio, M., Dustdar, S., Rana, O., Chen, L., Ranjan, R.

Software Defined Membrane: Policy-Driven Edge and Internet of Things Security

(2017) IEEE Cloud Computing, 4 (4), art. no. 8066009, pp. 92-99.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032203519&doi=10.1109%2fMCC.2017.3791014&partnerID=40&md5=4d2648279146c10a39b3544a4d61463c)

[85032203519&doi=10.1109%2fMCC.2017.3791014&partnerID=40&md5=4d2648279146c10a39b3544a4d61463c](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032203519&doi=10.1109%2fMCC.2017.3791014&partnerID=40&md5=4d2648279146c10a39b3544a4d61463c)

DOI: 10.1109/MCC.2017.3791014

AFFILIATIONS: University of Messina, Italy;

TU Wien, Austria;

Cardiff University, United Kingdom;

IBM Zurich Research Lab, Switzerland;

Newcastle University, Chinese University of Geosciences, United Kingdom

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 23256095

DOCUMENT TYPE: Article

**J-[140]**

Massonet, P., Deru, L., Achour, A., Dupont, S., Levin, A., Villari, M.

End-To-End Security Architecture for Federated Cloud and IoT Networks

(2017) 2017 IEEE International Conference on Smart Computing, SMARTCOMP 2017, art. no. 7947005, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85022341627&doi=10.1109%2fSMARTCOMP.2017.7947005&partnerID=40&md5=a46da791700dca0732bddc0c6557661c)

[85022341627&doi=10.1109%2fSMARTCOMP.2017.7947005&partnerID=40&md5=a46da791700dca0732bddc0c6557661c](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85022341627&doi=10.1109%2fSMARTCOMP.2017.7947005&partnerID=40&md5=a46da791700dca0732bddc0c6557661c)

DOI: 10.1109/SMARTCOMP.2017.7947005

AFFILIATIONS: CETIC Research Center, Charleroi, Belgium;

IBM Research Lab, Haifa, Israel;  
University of Messina, Italy  
PUBLISHER: Institute of Electrical and Electronics Engineers Inc.  
ISBN: 9781509065172  
DOCUMENT TYPE: Conference Paper

### **J-[139]**

Celesti, A., Celesti, F., Fazio, M., Bramanti, P., Villari, M.  
Are Next-Generation Sequencing Tools Ready for the Cloud?  
(2017) Trends in Biotechnology, 35 (6), pp. 486-489. Cited 5 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016768181&doi=10.1016%2fj.tibtech.2017.03.005&partnerID=40&md5=8242d7f9e2b79d601ce7bcd2027eee64>  
DOI: 10.1016/j.tibtech.2017.03.005  
AFFILIATIONS: Scientific Research Organisational Unit, University of Messina, Messina, Italy;  
Department of Biomedical and Dental Sciences and Morphofunctional Images, University of Messina, Messina, Italy;  
Department of Engineering, University of Messina, Messina, Italy;  
IRCCS Centro Neurolesi "Bonino Pulejo", Messina, Italy  
PUBLISHER: Elsevier Ltd  
ISSN: 01677799  
CODEN: TRBID  
DOCUMENT TYPE: Short Survey

### **J-[138]**

Celesti, A., Fazio, M., Villari, M.  
Enabling secure XMPP communications in federated IoT clouds through XEP 0027 and SAML/SASL SSO  
(2017) Sensors (Switzerland), 17 (2), art. no. 301, . Cited 2 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011994054&doi=10.3390%2fs17020301&partnerID=40&md5=0511527a5db7d4fa6a8b729bae03a908>  
DOI: 10.3390/s17020301  
AFFILIATIONS: Scientific Research Organisational Unit, University of Messina, Messina, Italy;  
Department of Engineering, University of Messina, Messina, Italy;  
IRCCS Centro Neurolesi Bonino Pulejo, Messina, Italy  
PUBLISHER: MDPI AG  
ISSN: 14248220  
DOCUMENT TYPE: Article

### **J-[137]**

Nardelli, M., Nastic, S., Dustdar, S., Villari, M., Ranjan, R.  
Osmotic Flow: Osmotic Computing + IoT Workflow  
(2017) IEEE Cloud Computing, 4 (2), art. no. 7912282, pp. 68-75. Cited 1 time.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019186519&doi=10.1109%2fMCC.2017.22&partnerID=40&md5=4bfb9cad790165578b33c48a0c6698c8>

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AFFILIATIONS: University of Rome Tor Vergata, Italy;

TU Wien, Austria;

University of Messina, Italy;

Newcastle University, United Kingdom

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 23256095

DOCUMENT TYPE: Article

### [136]

Carnevale, L., Celesti, A., Fazio, M., Bramanti, P., Villari, M.

Heart disorder detection with Menard algorithm on Apache Spark

(2017) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 10465 LNCS, pp. 229-237.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030678751&doi=10.1007%2f978-3-319-67262-5\\_17&partnerID=40&md5=5bb163d956c565aff74eeb5e93a6e7e2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030678751&doi=10.1007%2f978-3-319-67262-5_17&partnerID=40&md5=5bb163d956c565aff74eeb5e93a6e7e2)

DOI: 10.1007/978-3-319-67262-5\_17

AFFILIATIONS: Department of Engineering, University of Messina, Messina, Italy;

Scientific Research Organisational Unit, University of Messina, Messina, Italy;

IRCCS Centro Neurolesi "Bonino Pulejo", Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 03029743

ISBN: 9783319672618

DOCUMENT TYPE: Conference Paper

### [135]

Massonet, P., Dupont, S., Michot, A., Levin, A., Villari, M.

Enforcement of global security policies in federated cloud networks with virtual network functions

(2016) Proceedings - 2016 IEEE 15th International Symposium on Network Computing and Applications, NCA 2016, art. no. 7778597, pp. 81-84. Cited 1 time.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010425284&doi=10.1109%2fNCA.2016.7778597&partnerID=40&md5=4a2da07bd9f2812b27fbc91c0aa34733>

DOI: 10.1109/NCA.2016.7778597

AFFILIATIONS: CETIC Research Center, Charleroi, Belgium;

IBM Research Lab, Haifa, Israel;

University of Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781509032167

DOCUMENT TYPE: Conference Paper

### J-[134]

Fazio, M., Bramanti, A., Celesti, A., Bramanti, P., Villari, M.

A hybrid storage service for the management of big e-health data: A tele-rehabilitation case of study (2016) Q2SWinet 2016 - Proceedings of the 12th ACM Symposium on QoS and Security for Wireless and Mobile Networks, co-located with MSWiM 2016, pp. 1-8. Cited 2 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85004010397&doi=10.1145%2f2988272.2988276&partnerID=40&md5=1d72293f7f8efcd1d0022b76704752c3)

[85004010397&doi=10.1145%2f2988272.2988276&partnerID=40&md5=1d72293f7f8efcd1d0022b76704752c3](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85004010397&doi=10.1145%2f2988272.2988276&partnerID=40&md5=1d72293f7f8efcd1d0022b76704752c3)

DOI: 10.1145/2988272.2988276

AFFILIATIONS: Department of Engineering, University of Messina, Contrada di Dio, S. Agata, Messina, Italy; ISASI-CNR-Messina (Italia), Via Torre Bianca-Mortelle, Messina, Italy;

Scientific Research Org. Unit, University of Messina, Via Consolato del Mare, 41, Messina, Italy;

IRCCS Centro Neurolesi, Bonino Pulejo, S.S.113 C/da Casazza, Messina, Italy;

Department of Engineering, University of Messina, Contrada Di Dio, S. Agata, Messina, Italy

PUBLISHER: Association for Computing Machinery, Inc

ISBN: 9781450345040

DOCUMENT TYPE: Conference Paper

### **J-[133]**

Villari, M., Fazio, M., Dustdar, S., Rana, O., Ranjan, R.

Osmotic Computing: A New Paradigm for Edge/Cloud Integration

(2016) IEEE Cloud Computing, 3 (6), art. no. 7802525, pp. 76-83. Cited 14 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009108053&doi=10.1109%2fMCC.2016.124&partnerID=40&md5=2ac0f41ca5e40d2e8e535f33d6711dc4)

[85009108053&doi=10.1109%2fMCC.2016.124&partnerID=40&md5=2ac0f41ca5e40d2e8e535f33d6711dc4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009108053&doi=10.1109%2fMCC.2016.124&partnerID=40&md5=2ac0f41ca5e40d2e8e535f33d6711dc4)

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AFFILIATIONS: University of Messina, Italy;

TU Wien, Austria;

Cardiff University, United Kingdom;

Newcastle University, United Kingdom

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 23256095

DOCUMENT TYPE: Article

### **[132]**

Villari, M., Celesti, A., Giacobbe, M., Fazio, M.

Enriched E-R model to design hybrid database for big data solutions

(2016) Proceedings - IEEE Symposium on Computers and Communications, 2016-August, art. no. 7543733, pp. 163-166.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985937225&doi=10.1109%2fISCC.2016.7543733&partnerID=40&md5=69285beb8b8500d11d5fdd4d45f2a3d6)

[84985937225&doi=10.1109%2fISCC.2016.7543733&partnerID=40&md5=69285beb8b8500d11d5fdd4d45f2a3d6](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985937225&doi=10.1109%2fISCC.2016.7543733&partnerID=40&md5=69285beb8b8500d11d5fdd4d45f2a3d6)

DOI: 10.1109/ISCC.2016.7543733

AFFILIATIONS: Department of Engineering, University of Messina, Contrada Di Dio, S. Agata, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346



ISBN: 9781509006793

DOCUMENT TYPE: Conference Paper

**[131]**

Celesti, A., Mulfari, D., Fazio, M., Villari, M., Puliafito, A.

Improving desktop as a Service in OpenStack

(2016) Proceedings - IEEE Symposium on Computers and Communications, 2016-August, art. no. 7543755, pp. 281-288. Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985911310&doi=10.1109%2fISCC.2016.7543755&partnerID=40&md5=4e51618f5c507520642d986eff4d27bb)

[84985911310&doi=10.1109%2fISCC.2016.7543755&partnerID=40&md5=4e51618f5c507520642d986eff4d27bb](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985911310&doi=10.1109%2fISCC.2016.7543755&partnerID=40&md5=4e51618f5c507520642d986eff4d27bb)

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AFFILIATIONS: Department of Engineering, University of Messina, Contrada di Dio, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781509006793

DOCUMENT TYPE: Conference Paper

**[130]**

Massonet, P., Dupont, S., Michot, A., Levin, A., Villari, M.

An architecture for securing federated cloud networks with Service Function Chaining

(2016) Proceedings - IEEE Symposium on Computers and Communications, 2016-August, art. no. 7543711, pp. 38-43.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985991416&doi=10.1109%2fISCC.2016.7543711&partnerID=40&md5=ac6bdec3df6481e59951f763335fc357)

[84985991416&doi=10.1109%2fISCC.2016.7543711&partnerID=40&md5=ac6bdec3df6481e59951f763335fc357](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985991416&doi=10.1109%2fISCC.2016.7543711&partnerID=40&md5=ac6bdec3df6481e59951f763335fc357)

DOI: 10.1109/ISCC.2016.7543711

AFFILIATIONS: CETIC Research Center, Charleroi, Belgium;

IBM Research Lab, Haifa, Israel;

University of Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

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DOCUMENT TYPE: Conference Paper

**[129]**

Mulfari, D., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

Using Google Cloud Vision in assistive technology scenarios

(2016) Proceedings - IEEE Symposium on Computers and Communications, 2016-August, art. no. 7543742, pp. 214-219. Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985997702&doi=10.1109%2fISCC.2016.7543742&partnerID=40&md5=630b020b18737134d5aeb74c006645fb)

[84985997702&doi=10.1109%2fISCC.2016.7543742&partnerID=40&md5=630b020b18737134d5aeb74c006645fb](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985997702&doi=10.1109%2fISCC.2016.7543742&partnerID=40&md5=630b020b18737134d5aeb74c006645fb)

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AFFILIATIONS: Department of Engineering, University of Messina, Contrada Di Dio, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781509006793

DOCUMENT TYPE: Conference Paper

**[128]**

Celesti, A., Fazio, M., Celesti, F., Sannino, G., Campo, S., Villari, M.

New trends in Biotechnology: The point on NGS Cloud computing solutions

(2016) Proceedings - IEEE Symposium on Computers and Communications, 2016-August, art. no. 7543751, pp. 267-270. Cited 5 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985906028&doi=10.1109%2fISCC.2016.7543751&partnerID=40&md5=0b93dacd3d3cf2491607ffe04aff310d)

[84985906028&doi=10.1109%2fISCC.2016.7543751&partnerID=40&md5=0b93dacd3d3cf2491607ffe04aff310d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985906028&doi=10.1109%2fISCC.2016.7543751&partnerID=40&md5=0b93dacd3d3cf2491607ffe04aff310d)

DOI: 10.1109/ISCC.2016.7543751

AFFILIATIONS: Department of Engineering, University of Messina, Italy;

Department of Biomedical and Dental Sciences and Morphofunctional Images, University of Messina, Italy;  
Institute for High-Performance Computing and Networking, National Research Council (ICAR-CNR),  
Naples, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781509006793

DOCUMENT TYPE: Conference Paper

**[127]**

Cesaroni, F., Abbate, T., Villari, M.

Future internet: Cloud-based open business models

(2016) Lecture Notes in Information Systems and Organisation, 18, pp. 51-62.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983070381&doi=10.1007%2f978-3-319-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983070381&doi=10.1007%2f978-3-319-40265-9_4&partnerID=40&md5=dda7d5527e9525da38e6aaf15a711090)

[40265-9\\_4&partnerID=40&md5=dda7d5527e9525da38e6aaf15a711090](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983070381&doi=10.1007%2f978-3-319-40265-9_4&partnerID=40&md5=dda7d5527e9525da38e6aaf15a711090)

DOI: 10.1007/978-3-319-40265-9\_4

AFFILIATIONS: Department of Economics, University of Messina, Messina, Italy;

Department of Engineering, University of Messina, Messina, Italy

PUBLISHER: Springer Heidelberg

ISSN: 21954968

DOCUMENT TYPE: Book Chapter

**[126]**

Celesti, A., Fazio, M., Romano, A., Villari, M.

A hospital cloud-based archival information system for the efficient management of HL7 big data

(2016) 2016 39th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2016 - Proceedings, art. no. 7522177, pp. 406-411. Cited 4 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983591599&doi=10.1109%2fMIPRO.2016.7522177&partnerID=40&md5=33e2a6f6c7d450ba9cee54acd0559761)

[84983591599&doi=10.1109%2fMIPRO.2016.7522177&partnerID=40&md5=33e2a6f6c7d450ba9cee54acd0559761](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983591599&doi=10.1109%2fMIPRO.2016.7522177&partnerID=40&md5=33e2a6f6c7d450ba9cee54acd0559761)

DOI: 10.1109/MIPRO.2016.7522177

AFFILIATIONS: Department of Engineering, University of Messina, Contrada di Dio, Messina, Italy  
PUBLISHER: Institute of Electrical and Electronics Engineers Inc.  
ISBN: 9789532330885  
DOCUMENT TYPE: Conference Paper

**[125]**

Celesti, A., Mulfari, D., Fazio, M., Villari, M., Puliafito, A.

Exploring Container Virtualization in IoT Clouds

(2016) 2016 IEEE International Conference on Smart Computing, SMARTCOMP 2016, art. no. 7501691, .  
Cited 15 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979645243&doi=10.1109%2fSMARTCOMP.2016.7501691&partnerID=40&md5=15bef91bb8a67e58ac8ebb4a03c0772d)

[84979645243&doi=10.1109%2fSMARTCOMP.2016.7501691&partnerID=40&md5=15bef91bb8a67e58ac8ebb4a03c0772d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979645243&doi=10.1109%2fSMARTCOMP.2016.7501691&partnerID=40&md5=15bef91bb8a67e58ac8ebb4a03c0772d)

DOI: 10.1109/SMARTCOMP.2016.7501691

AFFILIATIONS: Department of Engineering, University of Messina, Contrada Di Dio, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781509008988

DOCUMENT TYPE: Conference Paper

**[124]**

Celesti, A., Fazio, M., Giacobbe, M., Puliafito, A., Villari, M.

Characterizing cloud federation in IoT

(2016) Proceedings - IEEE 30th International Conference on Advanced Information Networking and Applications Workshops, WAINA 2016, art. no. 7471179, pp. 93-98. Cited 18 times.

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[84979655164&doi=10.1109%2fWAINA.2016.152&partnerID=40&md5=159c3df8165683b02e62c8a306e581e0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979655164&doi=10.1109%2fWAINA.2016.152&partnerID=40&md5=159c3df8165683b02e62c8a306e581e0)

DOI: 10.1109/WAINA.2016.152

AFFILIATIONS: Department of Engineering, University of Messina, Contrada Di Dio, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781509018574

DOCUMENT TYPE: Conference Paper

**[123]**

Panarello, A., Celesti, A., Fazio, M., Puliafito, A., Villari, M.

Costs of a federated and hybrid cloud environment aimed at MapReduce video transcoding

(2016) Proceedings - IEEE Symposium on Computers and Communications, 2016-February, art. no. 7405525, pp. 258-263.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961958986&doi=10.1109%2fISCC.2015.7405525&partnerID=40&md5=a420cdf18813c0a4338c545f9c40cb1c)

[84961958986&doi=10.1109%2fISCC.2015.7405525&partnerID=40&md5=a420cdf18813c0a4338c545f9c40cb1c](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961958986&doi=10.1109%2fISCC.2015.7405525&partnerID=40&md5=a420cdf18813c0a4338c545f9c40cb1c)

DOI: 10.1109/ISCC.2015.7405525

AFFILIATIONS: DICIEAMA, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781467371940

DOCUMENT TYPE: Conference Paper

**[122]**

Giacobbe, M., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

Evaluating a cloud federation ecosystem to reduce carbon footprint by moving computational resources (2016) Proceedings - IEEE Symposium on Computers and Communications, 2016-February, art. no. 7405500, pp. 99-104. Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961912459&doi=10.1109%2fISCC.2015.7405500&partnerID=40&md5=21a7e60fb2bfc0f4ba4bd8bd4aa05c0f)

[84961912459&doi=10.1109%2fISCC.2015.7405500&partnerID=40&md5=21a7e60fb2bfc0f4ba4bd8bd4aa05c0f](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961912459&doi=10.1109%2fISCC.2015.7405500&partnerID=40&md5=21a7e60fb2bfc0f4ba4bd8bd4aa05c0f)

DOI: 10.1109/ISCC.2015.7405500

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781467371940

DOCUMENT TYPE: Conference Paper

**[121]**

Giacobbe, M., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

An approach to reduce energy costs through virtual machine migrations in cloud federation (2016) Proceedings - IEEE Symposium on Computers and Communications, 2016-February, art. no. 7405609, pp. 782-787. Cited 3 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961907161&doi=10.1109%2fISCC.2015.7405609&partnerID=40&md5=560af980d9a73dec403dfa4fb8354688)

[84961907161&doi=10.1109%2fISCC.2015.7405609&partnerID=40&md5=560af980d9a73dec403dfa4fb8354688](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961907161&doi=10.1109%2fISCC.2015.7405609&partnerID=40&md5=560af980d9a73dec403dfa4fb8354688)

DOI: 10.1109/ISCC.2015.7405609

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio - 98166, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781467371940

DOCUMENT TYPE: Conference Paper

**[120]**

Fazio, M., Celesti, A., Marquez, F.G., Glikson, A., Villari, M.

Exploiting the FIWARE cloud platform to develop a remote patient monitoring system (2016) Proceedings - IEEE Symposium on Computers and Communications, 2016-February, art. no. 7405526, pp. 264-270. Cited 10 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961967567&doi=10.1109%2fISCC.2015.7405526&partnerID=40&md5=90d1713b21a2c2e4e1fb8f49c022255e)

[84961967567&doi=10.1109%2fISCC.2015.7405526&partnerID=40&md5=90d1713b21a2c2e4e1fb8f49c022255e](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961967567&doi=10.1109%2fISCC.2015.7405526&partnerID=40&md5=90d1713b21a2c2e4e1fb8f49c022255e)

DOI: 10.1109/ISCC.2015.7405526

AFFILIATIONS: Università Degli Studi di Messina, Italy;

Telefónica, Spain;

IBM Research, Haifa, Israel  
PUBLISHER: Institute of Electrical and Electronics Engineers Inc.  
ISSN: 15301346  
ISBN: 9781467371940  
DOCUMENT TYPE: Conference Paper

**[119]**

Celesti, A., Villari, M.  
FrontierCities: Leveraging FIWARE for advantages in smart mobility  
(2016) Communications in Computer and Information Science, 567, pp. 450-451.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966586518&partnerID=40&md5=071390ef64a515f959131549bd2ac355>  
AFFILIATIONS: DICIEAMA, University of Messina, Contrada Di Dio (S. Agata), Messina, Italy  
PUBLISHER: Springer Verlag  
ISSN: 18650929  
ISBN: 9783319333120  
DOCUMENT TYPE: Conference Paper

**J-[118]**

Celesti, A., Fazio, M., Villari, M., Puliafito, A.  
Adding long-term availability, obfuscation, and encryption to multi-cloud storage systems  
(2016) Journal of Network and Computer Applications, 59, pp. 208-218. Cited 24 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949785413&doi=10.1016%2fj.jnca.2014.09.021&partnerID=40&md5=665f7b52b3a45579e44ec4e141f7739a>  
DOI: 10.1016/j.jnca.2014.09.021  
AFFILIATIONS: DICIEAMA, University of Messina S. Agata, Contrada di Dio, Messina, Italy  
PUBLISHER: Academic Press  
ISSN: 10848045  
DOCUMENT TYPE: Article

**J-[117]**

Villari, M., Al-Anbuky, A., Celesti, A., Moessner, K.  
Leveraging the internet of things: Integration of sensors and cloud computing systems  
(2016) International Journal of Distributed Sensor Networks, 12 (7), pp. 1-4.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979681338&doi=10.1177%2f155014779764287&partnerID=40&md5=00a6e521f9eb6ef1825a5ea7e3b06d0f>  
DOI: 10.1177/155014779764287  
AFFILIATIONS: University of Messina, Contrada di Dio No. 1, Messina, Italy;  
School of Engineering, Computer and Mathematical Sciences, Private Bag Box 92006, Auckland, New Zealand;  
Institute for Communication Systems, University of Surrey, Guildford, United Kingdom  
PUBLISHER: Hindawi Publishing Corporation  
ISSN: 15501329

DOCUMENT TYPE: Review

**[116]**

Massonet, P., Levin, A., Celesti, A., Villari, M.

Security requirements in a federated cloud networking architecture

(2016) Communications in Computer and Information Science, 567, pp. 79-88. Cited 2 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966586562&doi=10.1007%2f978-3-319-33313-7\\_6&partnerID=40&md5=285801e8db2a7b55323e1d2f41dd13ea](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966586562&doi=10.1007%2f978-3-319-33313-7_6&partnerID=40&md5=285801e8db2a7b55323e1d2f41dd13ea)

DOI: 10.1007/978-3-319-33313-7\_6

AFFILIATIONS: Cetic, Charleroi, Belgium;

HLR, IBM Haifa, Haifa, Israel;

DICIEAMA, University of Messina, Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783319333120

DOCUMENT TYPE: Conference Paper

**[115]**

Giacobbe, M., Fazio, M., Celesti, A., Abbate, T., Villari, M.

A scientometric analysis of cloud computing and QoE literature to design a cloud platform of experience for digital business

(2016) Communications in Computer and Information Science, 567, pp. 276-288.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966522107&doi=10.1007%2f978-3-319-33313-7\\_21&partnerID=40&md5=73fdf43fef9e4447eec6e1b97a1e9eb9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966522107&doi=10.1007%2f978-3-319-33313-7_21&partnerID=40&md5=73fdf43fef9e4447eec6e1b97a1e9eb9)

DOI: 10.1007/978-3-319-33313-7\_21

AFFILIATIONS: University of Messina, Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783319333120

DOCUMENT TYPE: Conference Paper

**[114]**

Panarello, A., Celesti, A., Fazio, M., Puliafito, A., Villari, M.

A federated system for mapreduce-based video transcoding to face the future massive video-selfie sharing trend

(2016) Communications in Computer and Information Science, 567, pp. 48-62.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966479996&doi=10.1007%2f978-3-319-33313-7\\_4&partnerID=40&md5=2971bfd7d5c29f417c45f78e40121775](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966479996&doi=10.1007%2f978-3-319-33313-7_4&partnerID=40&md5=2971bfd7d5c29f417c45f78e40121775)

DOI: 10.1007/978-3-319-33313-7\_4

AFFILIATIONS: DICIEAMA, University of Messina, Contrada Di Dio (S. Agata), Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783319333120

DOCUMENT TYPE: Conference Paper

**J-[113]**

Georgakopoulos, D., Jayaraman, P.P., Fazia, M., Villari, M., Ranjan, R.

Internet of Things and Edge Cloud Computing Roadmap for Manufacturing

(2016) IEEE Cloud Computing, 3 (4), art. no. 7571077, pp. 66-73. Cited 6 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991248061&doi=10.1109%2fMCC.2016.91&partnerID=40&md5=bbea256d2a3bb72fdd6a4cac4f1449b6)

[84991248061&doi=10.1109%2fMCC.2016.91&partnerID=40&md5=bbea256d2a3bb72fdd6a4cac4f1449b6](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991248061&doi=10.1109%2fMCC.2016.91&partnerID=40&md5=bbea256d2a3bb72fdd6a4cac4f1449b6)

DOI: 10.1109/MCC.2016.91

AFFILIATIONS: Swinburne University of Technology, Australia;

University of Messina, Department of Computer Science, Italy;

School of Computing Science, Newcastle University, United Kingdom

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 23256095

DOCUMENT TYPE: Article

**[112]**

Mulfari, D., Fazio, M., Celesti, A., Villari, M., Puliafito, A.

Design of an iot cloud system for container virtualization on smart objects

(2016) Communications in Computer and Information Science, 567, pp. 33-47. Cited 4 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966457697&doi=10.1007%2f978-3-319-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966457697&doi=10.1007%2f978-3-319-33313-7_3&partnerID=40&md5=351adbe6270047d3b8444bd93fe3bfd8)

[33313-7\\_3&partnerID=40&md5=351adbe6270047d3b8444bd93fe3bfd8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966457697&doi=10.1007%2f978-3-319-33313-7_3&partnerID=40&md5=351adbe6270047d3b8444bd93fe3bfd8)

DOI: 10.1007/978-3-319-33313-7\_3

AFFILIATIONS: DICIEAMA, University of Messina, Contrada Di Dio, Sant'Agata, Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783319333120

DOCUMENT TYPE: Conference Paper

**[111]**

Celesti, A., Levin, A., Massonet, P., Schour, L., Villari, M.

Federated networking services in multiple openstack clouds

(2016) Communications in Computer and Information Science, 567, pp. 338-352. Cited 3 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966602556&doi=10.1007%2f978-3-319-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966602556&doi=10.1007%2f978-3-319-33313-7_26&partnerID=40&md5=44f1ed607a202545e8cabd370057aae5)

[33313-7\\_26&partnerID=40&md5=44f1ed607a202545e8cabd370057aae5](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966602556&doi=10.1007%2f978-3-319-33313-7_26&partnerID=40&md5=44f1ed607a202545e8cabd370057aae5)

DOI: 10.1007/978-3-319-33313-7\_26

AFFILIATIONS: DICIEAMA, University of Messina, Messina, Italy;

HLR, IBM Haifa, Haifa, Israel;

Cetic, Charleroi, Belgium

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783319333120

DOCUMENT TYPE: Conference Paper

**[110]**

Barreto, L., Celesti, A., Villari, M., Fazio, M., Puliafito, A.

Security and IoT cloud federation: Design of authentication schemes  
(2016) Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, 169, pp. 337-346. Cited 1 time.  
[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000742209&doi=10.1007%2f978-3-319-47063-4\\_35&partnerID=40&md5=2d8b3fed98d5f135bb8c79f1cbf0a0d9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000742209&doi=10.1007%2f978-3-319-47063-4_35&partnerID=40&md5=2d8b3fed98d5f135bb8c79f1cbf0a0d9)  
DOI: 10.1007/978-3-319-47063-4\_35  
AFFILIATIONS: Federal University of Santa Catarina, Florianópolis, Brazil;  
Università, Degli Studi di Messina, Messina, Italy  
PUBLISHER: Springer Verlag  
ISSN: 18678211  
ISBN: 9783319470627  
DOCUMENT TYPE: Conference Paper

### **J-[109]**

Fazio, M., Celesti, A., Ranjan, R., Liu, C., Chen, L., Villari, M.  
Open Issues in Scheduling Microservices in the Cloud  
(2016) IEEE Cloud Computing, 3 (5), art. no. 7742215, pp. 81-88. Cited 3 times.  
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84996569901&doi=10.1109%2fMCC.2016.112&partnerID=40&md5=d52198bb1cc22e10b6f9e5e3d6df7c95>  
DOI: 10.1109/MCC.2016.112  
AFFILIATIONS: University of Messina, Italy;  
Newcastle University, Italy;  
IBM Research, Italy  
PUBLISHER: Institute of Electrical and Electronics Engineers Inc.  
ISSN: 23256095  
DOCUMENT TYPE: Article

### **[108]**

Andronico, G., Bua, F., Fargetta, M., Giorgio, E., Guglielmo, A., Monforte, S., Paone, M., Villari, M.  
Networking introspection and analysis for virtual machine migration in federated clouds  
(2016) Communications in Computer and Information Science, 567, pp. 353-362.  
[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966649654&doi=10.1007%2f978-3-319-33313-7\\_27&partnerID=40&md5=d7be0633cc935f146db8bc5884239a60](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966649654&doi=10.1007%2f978-3-319-33313-7_27&partnerID=40&md5=d7be0633cc935f146db8bc5884239a60)  
DOI: 10.1007/978-3-319-33313-7\_27  
AFFILIATIONS: Istituto Nazionale di Fisica Nucleare, Sezione di Catania, Catania, Italy;  
Università degli Studi di Messina, Messina, Italy  
PUBLISHER: Springer Verlag  
ISSN: 18650929  
ISBN: 9783319333120  
DOCUMENT TYPE: Conference Paper

### **[107]**

Moreno-Vozmediano, R., Huedo, E., Llorente, I.M., Montero, R.S., Massonet, P., Villari, M., Merlino, G., Celesti, A., Levin, A., Schour, L., Vázquez, C., Melis, J., Spahr, S., Whigham, D.



BEACON: A cloud network federation framework

(2016) *Communications in Computer and Information Science*, 567, pp. 325-337. Cited 7 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966687575&doi=10.1007%2f978-3-319-33313-7\\_25&partnerID=40&md5=b9151e00d686a6cefbe7a054e95dad57](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966687575&doi=10.1007%2f978-3-319-33313-7_25&partnerID=40&md5=b9151e00d686a6cefbe7a054e95dad57)

DOI: 10.1007/978-3-319-33313-7\_25

AFFILIATIONS: Universidad Complutense de Madrid, Madrid, Spain;

Centre D'excellence en Technologies de L'information et de la Communication (CETIC), Charleroi, Belgium;

Università di Messina, Messina, Italy;

IBM Israel - Science and Technology Ltd, Petah Tikva, Israel;

OpenNebula Systems, Madrid, Spain;

Lufthansa Systems, Kelsterbach, Germany;

Flexiant Limited, London, United Kingdom

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783319333120

DOCUMENT TYPE: Conference Paper

## [106]

Barreto, L., Celesti, A., Villari, M., Fazio, M., Puliafito, A.

Identity management in IoT Clouds: A FIWARE case of study

(2015) 2015 IEEE Conference on Communications and NetworkSecurity, CNS 2015, art. no. 7346887, pp. 680-684. Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966283599&doi=10.1109%2fCNS.2015.7346887&partnerID=40&md5=203be7fc18438e5015304c2311a68f4c)

[84966283599&doi=10.1109%2fCNS.2015.7346887&partnerID=40&md5=203be7fc18438e5015304c2311a68f4c](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966283599&doi=10.1109%2fCNS.2015.7346887&partnerID=40&md5=203be7fc18438e5015304c2311a68f4c)

DOI: 10.1109/CNS.2015.7346887

AFFILIATIONS: Federal University of Santa Catarina, Brazil;

Università Degli Studi di Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781467378765

DOCUMENT TYPE: Conference Paper

## J-[105]

Giacobbe, M., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

Towards energy management in Cloud federation: A survey in the perspective of future sustainable and cost-saving strategies

(2015) *Computer Networks*, 91, pp. 438-452. Cited 16 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84942572921&doi=10.1016%2fj.comnet.2015.08.031&partnerID=40&md5=c3ef7bb1b3a629119d370417a5d5f628)

[84942572921&doi=10.1016%2fj.comnet.2015.08.031&partnerID=40&md5=c3ef7bb1b3a629119d370417a5d5f628](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84942572921&doi=10.1016%2fj.comnet.2015.08.031&partnerID=40&md5=c3ef7bb1b3a629119d370417a5d5f628)

DOI: 10.1016/j.comnet.2015.08.031

AFFILIATIONS: DICIEAMA, S. Agata, University of Messina Contrada di Dio, Messina, Italy

PUBLISHER: Elsevier

ISSN: 13891286

CODEN: CNETD

DOCUMENT TYPE: Article

**[104]**

Giacobbe, M., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

A sustainable energy-aware resource management strategy for IoT Cloud federation

(2015) 1st IEEE International Symposium on Systems Engineering, ISSE 2015 - Proceedings, art. no. 7302751, pp. 170-175. Cited 6 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954467207&doi=10.1109%2fSysEng.2015.7302751&partnerID=40&md5=fb82635f096b1a884d6383d3779e120)

[84954467207&doi=10.1109%2fSysEng.2015.7302751&partnerID=40&md5=fb82635f096b1a884d6383d3779e120](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954467207&doi=10.1109%2fSysEng.2015.7302751&partnerID=40&md5=fb82635f096b1a884d6383d3779e120)

DOI: 10.1109/SysEng.2015.7302751

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781479919208

DOCUMENT TYPE: Conference Paper

**[103]**

Barreto, L., Celesti, A., Villari, M., Fazio, M., Puliafito, A.

An authentication model for IoT clouds

(2015) Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, ASONAM 2015, pp. 1032-1035. Cited 6 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962591743&doi=10.1145%2f2808797.2809361&partnerID=40&md5=53b04288989da5908759f3bc2ab253b1)

[84962591743&doi=10.1145%2f2808797.2809361&partnerID=40&md5=53b04288989da5908759f3bc2ab253b1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962591743&doi=10.1145%2f2808797.2809361&partnerID=40&md5=53b04288989da5908759f3bc2ab253b1)

DOI: 10.1145/2808797.2809361

AFFILIATIONS: Federal University of Santa Catarina, Brazil;

Università degli Studi di Messina, Italy

PUBLISHER: Association for Computing Machinery, Inc

ISBN: 9781450338547

DOCUMENT TYPE: Conference Paper

**[102]**

Fazio, M., Villari, M.

Preface of CLIoT

(2015) Communications in Computer and Information Science, 508, pp. 73-75.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924214258&doi=10.1007%2f978-3-319-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924214258&doi=10.1007%2f978-3-319-14886-1_8&partnerID=40&md5=ad5fd257957abc44c68eb2b886780c1d)

[14886-1\\_8&partnerID=40&md5=ad5fd257957abc44c68eb2b886780c1d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924214258&doi=10.1007%2f978-3-319-14886-1_8&partnerID=40&md5=ad5fd257957abc44c68eb2b886780c1d)

DOI: 10.1007/978-3-319-14886-1\_8

AFFILIATIONS: University of Messina, Messina, Italy;

University of Derby, Derby, United Kingdom

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783319148854

DOCUMENT TYPE: Conference Paper

**[101]**

Fazio, M., Celesti, A., Puliafito, A., Villari, M.

Big data storage in the cloud for smart environment monitoring

(2015) *Procedia Computer Science*, 52 (1), pp. 500-506. Cited 15 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84939210846&doi=10.1016%2fj.procs.2015.05.023&partnerID=40&md5=037ddfea2eb41b852df7848d)

[84939210846&doi=10.1016%2fj.procs.2015.05.023&partnerID=40&md5=037ddfea2eb41b852df7848d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84939210846&doi=10.1016%2fj.procs.2015.05.023&partnerID=40&md5=037ddfea2eb41b852df7848d)  
bbfcfa83

DOI: 10.1016/j.procs.2015.05.023

AFFILIATIONS: University of Messina, C.da Di Dio-Sant'Agata, Messina, Italy

PUBLISHER: Elsevier B.V.

ISSN: 18770509

DOCUMENT TYPE: Conference Paper

ACCESS TYPE: Open Access

**[100]**

Dustdar, S., Leymann, F., Villari, M.

Preface

(2015) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 9306, pp. V-VI.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944789761&partnerID=40&md5=b30d67931aee21307aec0bfdaf958286)

[84944789761&partnerID=40&md5=b30d67931aee21307aec0bfdaf958286](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944789761&partnerID=40&md5=b30d67931aee21307aec0bfdaf958286)

PUBLISHER: Springer Verlag

ISSN: 03029743

ISBN: 9783319240718

DOCUMENT TYPE: Editorial

**[99]**

Villari, M., Celesti, A., Fazio, M., Puliafito, A.

AllJoyn Lambda: An architecture for the management of smart environments in IoT

(2015) *Proceedings of 2014 International Conference on Smart Computing Workshops, SMARTCOMP Workshops 2014*, art. no. 7046676, pp. 9-14. Cited 32 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84925596503&doi=10.1109%2fSMARTCOMP-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84925596503&doi=10.1109%2fSMARTCOMP-W.2014.7046676&partnerID=40&md5=9731aad4e55d210a8b1eeb4deadc078d)

[W.2014.7046676&partnerID=40&md5=9731aad4e55d210a8b1eeb4deadc078d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84925596503&doi=10.1109%2fSMARTCOMP-W.2014.7046676&partnerID=40&md5=9731aad4e55d210a8b1eeb4deadc078d)

DOI: 10.1109/SMARTCOMP-W.2014.7046676

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, S. Agata, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781479964475

DOCUMENT TYPE: Conference Paper

**[98]**

Villari, M., Celesti, A., Fazio, M., Puliafito, A.

A secure self-identification mechanism for enabling iot devices to join cloud computing

(2015) *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST*, 151, pp. 306-311. Cited 3 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945566551&doi=10.1007%2f978-3-319-19743-2\\_41&partnerID=40&md5=ece4e1b9e3f909097aa957d18a73c4b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945566551&doi=10.1007%2f978-3-319-19743-2_41&partnerID=40&md5=ece4e1b9e3f909097aa957d18a73c4b)

DOI: 10.1007/978-3-319-19743-2\_41

AFFILIATIONS: University of Messina, DICIEAMA, Contrada Di Dio (S. Agata), Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18678211

ISBN: 9783319197425

DOCUMENT TYPE: Conference Paper

## **J-[97]**

Puliafito, A., Celesti, A., Villari, M., Fazio, M.

Towards the integration between IoT and cloud computing: An approach for the secure self-configuration of embedded devices

(2015) International Journal of Distributed Sensor Networks, 2015, art. no. 286860, . Cited 3 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955514398&doi=10.1155%2f2015%2f286860&partnerID=40&md5=105c1adbd6c79b91e2f8eb4cf8596a8a)

[84955514398&doi=10.1155%2f2015%2f286860&partnerID=40&md5=105c1adbd6c79b91e2f8eb4cf8596a8a](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955514398&doi=10.1155%2f2015%2f286860&partnerID=40&md5=105c1adbd6c79b91e2f8eb4cf8596a8a)

DOI: 10.1155/2015/286860

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, Sant'Agata, Messina, Italy

PUBLISHER: Hindawi Limited

ISSN: 15501329

DOCUMENT TYPE: Article

## **[96]**

Mulfari, D., Celesti, A., Fazio, M., Villari, M.

Human-computer interface based on IoT embedded systems for users with disabilities

(2015) Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, 150, pp. 376-383. Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948823302&doi=10.1007%2f978-3-319-19656-5\\_50&partnerID=40&md5=b8696555c2a4d2c52fe62bff9a4c7e6d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948823302&doi=10.1007%2f978-3-319-19656-5_50&partnerID=40&md5=b8696555c2a4d2c52fe62bff9a4c7e6d)

DOI: 10.1007/978-3-319-19656-5\_50

AFFILIATIONS: DICIEAMA, University of Messina, Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18678211

ISBN: 9783319196558

DOCUMENT TYPE: Conference Paper

## **J-[95]**

Mulfari, D., Celesti, A., Villari, M., Puliafito, A.

Providing assistive technology applications as a service through cloud computing

(2015) Assistive Technology, 27 (1), pp. 44-51. Cited 5 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84929069699&doi=10.1080%2f10400435.2014.963258&partnerID=40&md5=c8da4c230c09914caeb7e877911e72cc)

[84929069699&doi=10.1080%2f10400435.2014.963258&partnerID=40&md5=c8da4c230c09914caeb7e877911e72cc](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84929069699&doi=10.1080%2f10400435.2014.963258&partnerID=40&md5=c8da4c230c09914caeb7e877911e72cc)

DOI: 10.1080/10400435.2014.963258

AFFILIATIONS: DICIEAMA, University of Messina, Messina, Italy

PUBLISHER: Taylor and Francis Inc.

ISSN: 10400435

CODEN: ASTEF

DOCUMENT TYPE: Article

**[94]**

Mulfari, D., Celesti, A., Fazio, M., Villari, M.

An approach to evaluate applications running on web-based remote virtual machines in cloud computing (2015) Communications in Computer and Information Science, 508, pp. 106-117. Cited 2 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924205013&doi=10.1007%2f978-3-319-14886-1\\_11&partnerID=40&md5=666274c7ef1aebdd19808747b711c074](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924205013&doi=10.1007%2f978-3-319-14886-1_11&partnerID=40&md5=666274c7ef1aebdd19808747b711c074)

DOI: 10.1007/978-3-319-14886-1\_11

AFFILIATIONS: DICIEAMA, University of Messina, Contrada Di Dio, Sant'Agata-Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783319148854

DOCUMENT TYPE: Conference Paper

**J-[93]**

Mulfari, D., Celesti, A., Villari, M.

A computer system architecture providing a user-friendly man machine interface for accessing assistive technology in cloud computing

(2015) Journal of Systems and Software, 100, pp. 129-138. Cited 10 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84919346819&doi=10.1016%2fj.jss.2014.10.035&partnerID=40&md5=fe0e8478bfb5e5acfeb95dd3fac3b443)

[84919346819&doi=10.1016%2fj.jss.2014.10.035&partnerID=40&md5=fe0e8478bfb5e5acfeb95dd3fac3b443](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84919346819&doi=10.1016%2fj.jss.2014.10.035&partnerID=40&md5=fe0e8478bfb5e5acfeb95dd3fac3b443)

DOI: 10.1016/j.jss.2014.10.035

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, S. Agata, Messina, Italy

PUBLISHER: Elsevier Inc.

ISSN: 01641212

CODEN: JSSOD

DOCUMENT TYPE: Article

**[92]**

Dustdar, S., Leymann, F., Villari, M.

Service Oriented and Cloud Computing: 4th European Conference, ESOC 2015 Taormina, Italy, September 15-17, 2015 Proceedings

(2015) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 9306, pp. V-VI.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944810917&doi=10.1007%2f978-3-319-24072-5&partnerID=40&md5=acb1c093b4893ca2bf395a791aa1a160>

DOI: 10.1007/978-3-319-24072-5

AFFILIATIONS: Distributed Systems Group, TU Wien, Austria;

Institute of Architecture of Application Systems, University of Stuttgart, Baden-Württemberg, Germany;

University of Messina, Messina, Italy  
PUBLISHER: Springer Verlag  
ISSN: 03029743  
ISBN: 9783319240718  
DOCUMENT TYPE: Conference Paper

**[91]**

Fazio, M., Celesti, A., Villari, M., Puliafito, A.

How to enhance cloud architectures to enable cross-federation: Towards interoperable storage providers (2015) Proceedings - 2015 IEEE International Conference on Cloud Engineering, IC2E 2015, art. no. 7092964, pp. 480-486. Cited 5 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944327909&doi=10.1109%2fIC2E.2015.80&partnerID=40&md5=0357fb11b967fd153a4a22e9ecf7932c>

DOI: 10.1109/IC2E.2015.80

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio n. 1, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781479982189

DOCUMENT TYPE: Conference Paper

**[90]**

Tai, H., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

An integrated system for advanced water risk management based on cloud computing and IoT (2015) 2015 2nd World Symposium on Web Applications and Networking, WSWAN 2015, art. no. 7210305, . Cited 4 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84943329754&doi=10.1109%2fWSWAN.2015.7210305&partnerID=40&md5=e83b2f1c80267726a858faab5d7ff92c>

DOI: 10.1109/WSWAN.2015.7210305

AFFILIATIONS: DICIEAMA, University of Messina Contrada di Dio, S. Agata, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781479981717

DOCUMENT TYPE: Conference Paper

**[89]**

Andronico, G., Fargetta, M., Monforte, S., Paone, M., Villari, M.

Creating and managing dynamic cloud federations

(2015) Proceedings of Science, 15-20-March-2015, art. no. 023, . Cited 1 time.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988735422&partnerID=40&md5=b85779a5d6a5bef34a73564cfa36a1bc>

AFFILIATIONS: Istituto Nazionale di Fisica Nucleare, Sezione di Catania, Italy;

Università degli Studi di Messina, Italy

PUBLISHER: Proceedings of Science (PoS)

ISSN: 18248039

DOCUMENT TYPE: Conference Paper

**[88]**

Giacobbe, M., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

An approach to reduce carbon dioxide emissions through virtual machine migrations in a sustainable cloud federation

(2015) 2015 Sustainable Internet and ICT for Sustainability, SustainIT 2015, art. no. 7101383, . Cited 10 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84933566741&doi=10.1109%2fSustainIT.2015.7101383&partnerID=40&md5=9547c0e0523c267fbbd6c7f283aee579)

[84933566741&doi=10.1109%2fSustainIT.2015.7101383&partnerID=40&md5=9547c0e0523c267fbbd6c7f283aee579](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84933566741&doi=10.1109%2fSustainIT.2015.7101383&partnerID=40&md5=9547c0e0523c267fbbd6c7f283aee579)

DOI: 10.1109/SustainIT.2015.7101383

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9783901882708

DOCUMENT TYPE: Conference Paper

**[87]**

Mulfari, D., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

Embedded systems for supporting computer accessibility

(2015) Studies in Health Technology and Informatics, 217, pp. 378-385. Cited 2 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84951979292&doi=10.3233%2f978-1-61499-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84951979292&doi=10.3233%2f978-1-61499-566-1-378&partnerID=40&md5=40c21f0f04dedc14aa5785633373783e)

[566-1-378&partnerID=40&md5=40c21f0f04dedc14aa5785633373783e](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84951979292&doi=10.3233%2f978-1-61499-566-1-378&partnerID=40&md5=40c21f0f04dedc14aa5785633373783e)

DOI: 10.3233/978-1-61499-566-1-378

AFFILIATIONS: DICIEAMA, Faculty of Engineering, University of Messina, Italy

PUBLISHER: IOS Press

ISSN: 09269630

ISBN: 9781614995654

DOCUMENT TYPE: Conference Paper

**J-[86]**

Longo, F., Bruneo, D., Villari, M., Puliafito, A., Salant, E., Wolfsthal, Y.

Towards the future internet: The RESERVOIR, VISION cloud, and CloudWave experiences

(2015) International Journal of High Performance Computing and Networking, 8 (3), pp. 235-247. Cited 4 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940376740&doi=10.1504%2fIJHPCN.2015.071260&partnerID=40&md5=eaeb93bb0c41b504ae879901ccfb0e9b)

[84940376740&doi=10.1504%2fIJHPCN.2015.071260&partnerID=40&md5=eaeb93bb0c41b504ae879901ccfb0e9b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940376740&doi=10.1504%2fIJHPCN.2015.071260&partnerID=40&md5=eaeb93bb0c41b504ae879901ccfb0e9b)

DOI: 10.1504/IJHPCN.2015.071260

AFFILIATIONS: Università degli Studi di Messina, Contrada di Dio, S.Agata, Messina, Italy;

IBM R and D Labs in Israel, University of Haifa Campus, Mount Carmel, Haifa, Israel

PUBLISHER: Inderscience Enterprises Ltd.

ISSN: 17400562

DOCUMENT TYPE: Article

**[85]**

Mulfari, D., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

Using embedded systems to spread assistive technology on multiple devices in smart environments  
(2014) Proceedings - 2014 IEEE International Conference on Bioinformatics and Biomedicine, IEEE BIBM  
2014, art. no. 6999234, pp. 5-11. Cited 5 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0->

84922829691&doi=10.1109%2fBIBM.2014.6999234&partnerID=40&md5=cae1d651b1bdb56be5a334  
dce1f20eea

DOI: 10.1109/BIBM.2014.6999234

AFFILIATIONS: DICIEAMA, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata,  
Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781479956692

DOCUMENT TYPE: Conference Paper

### **[84]**

Longo, F., Bruneo, D., Villari, M., Puliafito, A., Salant, E., Wolfsthal, Y.

From VISION cloud to cloudwave: Towards the future internet and a new generation of services  
(2014) Proceedings - 2014 International Conference on Intelligent Networking and Collaborative Systems,  
IEEE INCoS 2014, art. no. 7057163, pp. 641-646. Cited 1 time.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0->

84946689379&doi=10.1109%2fINCoS.2014.34&partnerID=40&md5=055dc9821aede8fb76042e7d609  
61b3b

DOI: 10.1109/INCoS.2014.34

AFFILIATIONS: Università Degli Studi di Messina, Italy;

IBM, Haifa Research Lab, Israel

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781479963867

DOCUMENT TYPE: Conference Paper

### **[83]**

Andronico, G., Fargetta, M., Monforte, S., Paone, M., Villari, M.

A Model for accomplishing and managing dynamic cloud federations  
(2014) Proceedings - 2014 IEEE/ACM 7th International Conference on Utility and Cloud Computing, UCC  
2014, art. no. 7027588, pp. 744-749. Cited 3 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0->

84946688926&doi=10.1109%2fUCC.2014.121&partnerID=40&md5=f960c39a84f882208de501c3bcdcc  
011

DOI: 10.1109/UCC.2014.121

AFFILIATIONS: Istituto Nazionale di Fisica Nucleare, Sezione di Catania, Catania, Italy;  
Università Degli Studi di Messina, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781479978816

DOCUMENT TYPE: Conference Paper

### **[82]**



Villari, M., Zimmermann, W., Lau, K.-K.

Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics): Preface

(2014) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 8745 LNCS, pp. V-VI.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84907077409&partnerID=40&md5=d5e4f3a22ef357341e4634457673aa89)

84907077409&partnerID=40&md5=d5e4f3a22ef357341e4634457673aa89

AFFILIATIONS: Università di Messina, Dip. di Ingegneria Civile, Informatica, Edile, Ambientale e Matematica Applicata (DICIEAMA), C.Da Di Dio, No.1, 98166 Messina, Italy;

Martin-Luther-Universität Halle-Wittenberg, Institut für Informatik, V.-Seckendorff-Platz, 06099 Halle (Saale), Germany;

University of Manchester, School of Computer Science, Oxford Road, Manchester M13 9PL, United Kingdom

PUBLISHER: Springer Verlag

ISSN: 03029743

ISBN: 9783662448786

DOCUMENT TYPE: Editorial

### **[81]**

Fazio, M., Celesti, A., Villari, M., Puliafito, A.

Resource management in cloud federation using XMPP

(2014) Proceedings - 2014 IEEE 13th International Symposium on Network Computing and Applications, NCA 2014, art. no. 6924206, pp. 67-70.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84911095717&doi=10.1109%2fNCA.2014.15&partnerID=40&md5=ce3cd58ea142d11ed8a0ab6eb7f7ec99)

84911095717&doi=10.1109%2fNCA.2014.15&partnerID=40&md5=ce3cd58ea142d11ed8a0ab6eb7f7ec99

DOI: 10.1109/NCA.2014.15

AFFILIATIONS: DICIEAMA Department, University of Messina, Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISBN: 9781479953936

DOCUMENT TYPE: Conference Paper

### **[80]**

Fazio, M., Celesti, A., Villari, M., Puliafito, A.

The need of a hybrid storage approach for IoT in PaaS cloud federation

(2014) Proceedings - 2014 IEEE 28th International Conference on Advanced Information Networking and Applications Workshops, IEEE WAINA 2014, art. no. 6844734, pp. 779-784. Cited 13 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904497804&doi=10.1109%2fWAINA.2014.162&partnerID=40&md5=0a4faf9db2d60f8131e227bcfe810ac3)

84904497804&doi=10.1109%2fWAINA.2014.162&partnerID=40&md5=0a4faf9db2d60f8131e227bcfe810ac3

DOI: 10.1109/WAINA.2014.162

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

PUBLISHER: IEEE Computer Society

ISBN: 9781479926527

DOCUMENT TYPE: Conference Paper

**[79]**

Foschini, L., Kantarci, B., Villari, M.

4th IEEE workshop on management of cloud systems (MoCS 2014)

(2014) Proceedings - International Symposium on Computers and Communications, Workshops, art. no. 6912640, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84908131714&doi=10.1109%2fISCC.2014.6912640&partnerID=40&md5=702921506f9a4a5422b1c27d09c98300)

[84908131714&doi=10.1109%2fISCC.2014.6912640&partnerID=40&md5=702921506f9a4a5422b1c27d09c98300](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84908131714&doi=10.1109%2fISCC.2014.6912640&partnerID=40&md5=702921506f9a4a5422b1c27d09c98300)

DOI: 10.1109/ISCC.2014.6912640

AFFILIATIONS: Università di Bologna, Italy;

University of Ottawa, Canada;

Università di Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781479942770

DOCUMENT TYPE: Editorial

**[78]**

Celesti, A., Fazio, M., Puliafito, A., Villari, M.

Automating the Hadoop configuration for easy setup in resilient cloud systems

(2014) Proceedings - International Symposium on Computers and Communications, Workshops, art. no. 6912631, . Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84908144447&doi=10.1109%2fISCC.2014.6912631&partnerID=40&md5=f47b103f8003dd8a7711573acf1a9d5e)

[84908144447&doi=10.1109%2fISCC.2014.6912631&partnerID=40&md5=f47b103f8003dd8a7711573acf1a9d5e](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84908144447&doi=10.1109%2fISCC.2014.6912631&partnerID=40&md5=f47b103f8003dd8a7711573acf1a9d5e)

DOI: 10.1109/ISCC.2014.6912631

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, S. Agata, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781479942770

DOCUMENT TYPE: Conference Paper

**J-[77]**

Fazio, M., Puliafito, A., Villari, M.

IoT4S: A new architecture to exploit sensing capabilities in smart cities

(2014) International Journal of Web and Grid Services, 10 (2-3), pp. 114-138. Cited 4 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84898621642&partnerID=40&md5=2592a3891b38a175cf52aede04a4bd95)

[84898621642&partnerID=40&md5=2592a3891b38a175cf52aede04a4bd95](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84898621642&partnerID=40&md5=2592a3891b38a175cf52aede04a4bd95)

AFFILIATIONS: Faculty of Engineering, University of Messina, Messina, Italy

PUBLISHER: Inderscience Enterprises Ltd.

ISSN: 17411106

DOCUMENT TYPE: Article

**[76]**

Mulfari, D., Celesti, A., Villari, M., Puliafito, A.

Using Virtualization and noVNC to Support Assistive Technology in Cloud Computing  
(2014) Proceedings - IEEE 3rd Symposium on Network Cloud Computing and Applications, NCCA 2014,  
art. no. 06786774, pp. 125-132. Cited 9 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84899451390&doi=10.1109%2fNCCA.2014.28&partnerID=40&md5=91b616867b5a7a55e277a4dce8942f11)

[84899451390&doi=10.1109%2fNCCA.2014.28&partnerID=40&md5=91b616867b5a7a55e277a4dce8942f11](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84899451390&doi=10.1109%2fNCCA.2014.28&partnerID=40&md5=91b616867b5a7a55e277a4dce8942f11)

DOI: 10.1109/NCCA.2014.28

AFFILIATIONS: DICIEAMA, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166  
Messina, Italy

PUBLISHER: IEEE Computer Society

DOCUMENT TYPE: Conference Paper

### **J-[75]**

Fazio, M., Celesti, A., Puliafito, A., Villari, M.

An integrated system for advanced multi-risk management based on Cloud for IoT

(2014) Advances in Intelligent Systems and Computing, 260, pp. 253-269. Cited 6 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84903747682&doi=10.1007%2f978-3-319-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84903747682&doi=10.1007%2f978-3-319-03992-3_18&partnerID=40&md5=2dfc85f6536674b664815c070ab486df)

[03992-3\\_18&partnerID=40&md5=2dfc85f6536674b664815c070ab486df](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84903747682&doi=10.1007%2f978-3-319-03992-3_18&partnerID=40&md5=2dfc85f6536674b664815c070ab486df)

DOI: 10.1007/978-3-319-03992-3\_18

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 21945357

DOCUMENT TYPE: Article

### **[74]**

Panarello, A., Fazio, M., Celesti, A., Puliafito, A., Villari, M.

Cloud federation to elastically increase mapreduce processing resources

(2014) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and  
Lecture Notes in Bioinformatics), 8806, pp. 97-108. Cited 2 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84920102191&partnerID=40&md5=a9330c1afd8bd7627e115103eba5988b)

[84920102191&partnerID=40&md5=a9330c1afd8bd7627e115103eba5988b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84920102191&partnerID=40&md5=a9330c1afd8bd7627e115103eba5988b)

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, S. Agata, Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 03029743

ISBN: 9783319143125

DOCUMENT TYPE: Conference Paper

### **[73]**

Panarello, A., Celesti, A., Fazio, M., Villari, M., Puliafito, A.

A requirements analysis for IaaS cloud federation

(2014) CLOSER 2014 - Proceedings of the 4th International Conference on Cloud Computing and Services  
Science, pp. 584-589. Cited 9 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84902319762&partnerID=40&md5=002d2d3b47c28f5b08a119a113572a22)

[84902319762&partnerID=40&md5=002d2d3b47c28f5b08a119a113572a22](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84902319762&partnerID=40&md5=002d2d3b47c28f5b08a119a113572a22)

AFFILIATIONS: DICIEAMA, Università degli Studi di Messina, Contrada Di Dio, S. Agata 98166, Messina, Italy

PUBLISHER: SciTePress

ISBN: 9789897580192

DOCUMENT TYPE: Conference Paper

## [72]

Bruneo, D., Fritz, T., Keidar-Barner, S., Leitner, P., Longo, F., Marquezan, C., Metzger, A., Pohl, K., Puliafito, A., Raz, D., Roth, A., Salant, E., Segall, I., Villari, M., Wolfsthal, Y., Woods, C.

CloudWave: Where adaptive cloud management meets DevOps

(2014) Proceedings - International Symposium on Computers and Communications, Workshops, art. no. 6912638, . Cited 17 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84908149098&doi=10.1109%2fISCC.2014.6912638&partnerID=40&md5=ab47a4d28e308f6cb7ff507d118eb7eb)

[84908149098&doi=10.1109%2fISCC.2014.6912638&partnerID=40&md5=ab47a4d28e308f6cb7ff507d118eb7eb](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84908149098&doi=10.1109%2fISCC.2014.6912638&partnerID=40&md5=ab47a4d28e308f6cb7ff507d118eb7eb)

DOI: 10.1109/ISCC.2014.6912638

AFFILIATIONS: Università Degli Studi di Messina, Italy;

Intel, Ireland;

Technion University, Israel;

University of Zurich, Switzerland;

University of Duisburg-Essen, Germany;

IBM, Haifa Research Lab, Israel;

SAP, Germany

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781479942770

DOCUMENT TYPE: Conference Paper

## [71]

Celesti, A., Puliafito, A., Tusa, F., Villari, M.

Towards energy sustainability in federated and interoperable clouds

(2013) Sustainable Practices: Concepts, Methodologies, Tools, and Applications, 1, pp. 279-301. Cited 3 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944881496&doi=10.4018%2f978-1-4666-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944881496&doi=10.4018%2f978-1-4666-4852-4.ch015&partnerID=40&md5=4d4661b4b889e65e59155bf6b4fbd470)

[4852-4.ch015&partnerID=40&md5=4d4661b4b889e65e59155bf6b4fbd470](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944881496&doi=10.4018%2f978-1-4666-4852-4.ch015&partnerID=40&md5=4d4661b4b889e65e59155bf6b4fbd470)

DOI: 10.4018/978-1-4666-4852-4.ch015

AFFILIATIONS: University of Messina, Italy

PUBLISHER: IGI Global

ISBN: 9781466648531; 146664852X; 9781466648524

DOCUMENT TYPE: Book Chapter

## J-[70]

Villari, M., Celesti, A., Fazio, M., Puliafito, A.

Evaluating a file fragmentation system for multi-provider cloud storage

(2013) Scalable Computing, 14 (4), pp. 265-277. Cited 8 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84893473994&doi=10.12694%2fscpe.v14i4.932&partnerID=40&md5=bd7b812b56fa74ca67371ebc2187757b>

DOI: 10.12694/scpe.v14i4.932

AFFILIATIONS: DICIEMA, University of Messina, C.Da Di Dio 1, 98166, Messina, Italy

ISSN: 18951767

DOCUMENT TYPE: Article

### **J-[69]**

Fazio, M., Celesti, A., Puliafito, A., Villari, M.

A message oriented middleware for cloud computing to improve efficiency in risk management systems (2013) Scalable Computing, 14 (4), pp. 201-213. Cited 4 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84893492162&doi=10.12694%2fscpe.v14i4.928&partnerID=40&md5=d7487debac2e82ee49ac044f1e6a7513>

DOI: 10.12694/scpe.v14i4.928

AFFILIATIONS: DICIEAMA, University of Messina, Contrada Di Dio, 98166 Sant'Agata, Italy

ISSN: 18951767

DOCUMENT TYPE: Article

### **[68]**

Fazio, M., Puliafito, A., Villari, M.

An event-based service for sensing data provisioning in the cloud (2013) 4th IMEKO TC19 Symposium on Environmental Instrumentation and Measurements 2013: Protection Environment, Climate Changes and Pollution Control, pp. 140-145. Cited 1 time.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84893348125&partnerID=40&md5=c449bed0ac30a9011dcdce55e0fd9c47>

ISSN: 18951767

AFFILIATIONS: Universita' di Messina, Contrada di Dio, S. Agata, 98166, Messina, Italy

ISBN: 9781629931067

DOCUMENT TYPE: Conference Paper

### **[67]**

Mulfari, D., Celesti, A., Villari, M., Puliafito, A.

Using virtualization and guacamole/VNC to provide adaptive user interfaces to disabled people in cloud computing

(2013) Proceedings - IEEE 10th International Conference on Ubiquitous Intelligence and Computing, UIC 2013 and IEEE 10th International Conference on Autonomic and Trusted Computing, ATC 2013, art. no. 06726193, pp. 72-79. Cited 6 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84894211393&doi=10.1109%2fUIC-ATC.2013.42&partnerID=40&md5=711408d3cc764df8bdba323ab6806720>

DOI: 10.1109/UIC-ATC.2013.42

AFFILIATIONS: DICIEAMA, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISBN: 9781479924813

DOCUMENT TYPE: Conference Paper

**J-[66]**

Formisano, C., Kolodner, E.K., Shulman-Peleg, A., Travaglino, E., Vernik, G., Villari, M.

Delegation across storage clouds: On-boarding federation as a case study

(2013) Scalable Computing, 14 (4), pp. 291-306. Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84893446101&doi=10.12694%2fscpe.v14i4.934&partnerID=40&md5=79f49e3b7f0103e0e608d7aac649849d)

[84893446101&doi=10.12694%2fscpe.v14i4.934&partnerID=40&md5=79f49e3b7f0103e0e608d7aac649849d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84893446101&doi=10.12694%2fscpe.v14i4.934&partnerID=40&md5=79f49e3b7f0103e0e608d7aac649849d)

DOI: 10.12694/scpe.v14i4.934

AFFILIATIONS: Dept. of DICIEMA, University of Messina, Italy;

IBM Haifa Research Lab, Israel;

Engineering Ingegneria Informatica SPA, Italy

ISSN: 18951767

DOCUMENT TYPE: Article

**[65]**

Vernik, G., Shulman-Peleg, A., Dippl, S., Formisano, C., Jaeger, M.C., Kolodner, E.K., Villari, M.

Data On-boarding in federated storage clouds

(2013) IEEE International Conference on Cloud Computing, CLOUD, art. no. 6676701, pp. 244-251. Cited 19 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84897732152&doi=10.1109%2fCLOUD.2013.54&partnerID=40&md5=48f77719b3e89c95224c30235e77435d)

[84897732152&doi=10.1109%2fCLOUD.2013.54&partnerID=40&md5=48f77719b3e89c95224c30235e77435d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84897732152&doi=10.1109%2fCLOUD.2013.54&partnerID=40&md5=48f77719b3e89c95224c30235e77435d)

DOI: 10.1109/CLOUD.2013.54

AFFILIATIONS: IBM Haifa Research Lab, Israel;

Siemens Corporate Research and Technologies, Israel;

Engineering Ingegneria Informatica, SPA, Israel;

University of Messina, Israel

ISSN: 21596182

DOCUMENT TYPE: Conference Paper

**[64]**

Celesti, A., Fazio, M., Villari, M., Puliafito, A., Mulfari, D.

Remote and deep attestations to mitigate threats in Cloud Mash-Up services

(2013) 2013 World Congress on Computer and Information Technology, WCCIT 2013, art. no. 6618763, . Cited 4 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84887868343&doi=10.1109%2fWCCIT.2013.6618763&partnerID=40&md5=144b2c9d571d92c829180e864932d6b3)

[84887868343&doi=10.1109%2fWCCIT.2013.6618763&partnerID=40&md5=144b2c9d571d92c829180e864932d6b3](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84887868343&doi=10.1109%2fWCCIT.2013.6618763&partnerID=40&md5=144b2c9d571d92c829180e864932d6b3)

DOI: 10.1109/WCCIT.2013.6618763

AFFILIATIONS: DICIEMA, University of Messina, Contrada di Dio, S. Agata, 98166, Italy

ISBN: 9781479904600

DOCUMENT TYPE: Conference Paper

**[63]**

Celesti, A., Puliafito, A., Tusa, F., Villari, M.

Towards energy sustainability in federated and interoperable clouds

(2013) Communication Infrastructures for Cloud Computing, pp. 329-350.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-8490455210&doi=10.4018%2f978-1-4666-4522-6.ch015&partnerID=40&md5=0280d47a1a8a9d112bbc362475d40bf9>

DOI: 10.4018/978-1-4666-4522-6.ch015

AFFILIATIONS: Faculty of Engineering, University of Messina, Italy

PUBLISHER: IGI Global

ISBN: 9781466645233; 1466645229; 9781466645226

DOCUMENT TYPE: Book Chapter

## [62]

Celesti, A., Puliafito, A., Tusa, F., Villari, M.

Energy sustainability in cooperating clouds

(2013) CLOSER 2013 - Proceedings of the 3rd International Conference on Cloud Computing and Services Science, pp. 83-89. Cited 10 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84884470490&partnerID=40&md5=114055b38764717de3be03e5e65eeced)

[84884470490&partnerID=40&md5=114055b38764717de3be03e5e65eeced](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84884470490&partnerID=40&md5=114055b38764717de3be03e5e65eeced)

AFFILIATIONS: Università Degli Studi di Messina, Facoltà di Ingegneria, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISBN: 9789898565525

DOCUMENT TYPE: Conference Paper

## J-[61]

Tusa, F., Paone, M., Puliafito, A., Villari, M.

How to exploit grid infrastructures for federated cloud purposes with CLEVER

(2013) International Journal of Computational Science and Engineering, 8 (3), pp. 253-268. Cited 2 times.

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[84880990272&doi=10.1504%2fIJCSE.2013.055355&partnerID=40&md5=aab84168fc591147e5e0b22076072818](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84880990272&doi=10.1504%2fIJCSE.2013.055355&partnerID=40&md5=aab84168fc591147e5e0b22076072818)

DOI: 10.1504/IJCSE.2013.055355

AFFILIATIONS: Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISSN: 17427185

DOCUMENT TYPE: Article

## [60]

Mulfari, D., Celesti, A., Villari, M., Puliafito, A.

How cloud computing can support on-demand assistive services

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[84879815302&doi=10.1145%2f2461121.2461140&partnerID=40&md5=1949637c313c757d555b7c521ddf1eaa](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84879815302&doi=10.1145%2f2461121.2461140&partnerID=40&md5=1949637c313c757d555b7c521ddf1eaa)

DOI: 10.1145/2461121.2461140

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISBN: 9781450318440

DOCUMENT TYPE: Conference Paper

**[59]**

Massonet, P., Michot, A., Naqvi, S., Villari, M., Latanicki, J.

Securing the external interfaces of a federated infrastructure cloud

(2013) IT Policy and Ethics: Concepts, Methodologies, Tools, and Applications, 3-3, pp. 1876-1903. Cited 8 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944761063&doi=10.4018%2f978-1-4666-2919-6.ch082&partnerID=40&md5=2d450410cd54b35e7ba746839e0a843a>

DOI: 10.4018/978-1-4666-2919-6.ch082

AFFILIATIONS: Centre d'Excellence en Technologies de l'Information et de la Communication, Belgium;  
University of Messina, Italy;

Thales Services, France

PUBLISHER: IGI Global

ISBN: 9781466629202; 1466629193; 9781466629196

DOCUMENT TYPE: Book Chapter

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Barresi, G., Villari, M.

How small and medium healthcare assistance structures should leverage cloud computing technology for optimizing their processes and reducing costs

(2013) Lecture Notes in Information Systems and Organisation, 2, pp. 235-246.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983027366&doi=10.1007%2f978-3-642-37228-5\\_23&partnerID=40&md5=2ad097651aa0ad5de8b0f8f32a9675e2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983027366&doi=10.1007%2f978-3-642-37228-5_23&partnerID=40&md5=2ad097651aa0ad5de8b0f8f32a9675e2)

DOI: 10.1007/978-3-642-37228-5\_23

AFFILIATIONS: University of Messina, Piazza Pugliatti I, Messina, Italy

PUBLISHER: Springer Heidelberg

ISSN: 21954968

DOCUMENT TYPE: Book Chapter

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Canal, C., Villari, M.

Advances in Service-Oriented and Cloud Computing: Workshops of ESOC 2013, Málaga, Spain, September 11-13, 2013, Revised Selected Papers

(2013) Communications in Computer and Information Science, 393 CCIS, . Cited 2 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904632451&doi=10.1007%2f978-3-642-45364-9&partnerID=40&md5=87fae32bfd02499dc72a96ea08532376>

DOI: 10.1007/978-3-642-45364-9

AFFILIATIONS: GISUM Software Engineering Group, Universidad de Málaga, Spain;

University of Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783642453632



DOCUMENT TYPE: Conference Paper

**[56]**

Canal, C., Villari, M.

Preface

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904618978&doi=10.1007%2f978-3-642-45364-9&partnerID=40&md5=fd579f5b93fc57da07a93185f3119070>

DOI: 10.1007/978-3-642-45364-9

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783642453632

DOCUMENT TYPE: Editorial

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Villari, M., Kyriazis, D.

Preface of CLOUSO

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904601946&doi=10.1007%2f978-3-642-45364-9&partnerID=40&md5=9a7c24739d210f72f40a92701f29ae2e>

DOI: 10.1007/978-3-642-45364-9

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783642453632

DOCUMENT TYPE: Editorial

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Fazio, M., Celesti, A., Villari, M.

Design of a Message-Oriented Middleware for Cooperating Clouds

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DOI: 10.1007/978-3-642-45364-9\_3

AFFILIATIONS: DICIEAMA, University of Messina, Contrada Di Dio, Sant'Agata, 98166 Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783642453632

DOCUMENT TYPE: Conference Paper

**[53]**

Celesti, A., Fazio, M., Villari, M.

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84897400964&doi=10.1109%2fISCC.2013.6754919&partnerID=40&md5=b3b2161d408d271a14a4d695e4d9a8f0>

DOI: 10.1109/ISCC.2013.6754919

AFFILIATIONS: DICIEAMA, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

PUBLISHER: Institute of Electrical and Electronics Engineers Inc.

ISSN: 15301346

ISBN: 9781479937554

DOCUMENT TYPE: Conference Paper

## [52]

Villari, M., Celesti, A., Tusa, F., Puliafito, A.

Data Reliability in Multi-provider Cloud Storage Service with RRNS

(2013) Communications in Computer and Information Science, 393 CCIS, pp. 83-93. Cited 11 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84893464515&doi=10.1007%2f978-3-642-45364-9\\_8&partnerID=40&md5=3507fead686208a3ddb8f9a600766c48](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84893464515&doi=10.1007%2f978-3-642-45364-9_8&partnerID=40&md5=3507fead686208a3ddb8f9a600766c48)

DOI: 10.1007/978-3-642-45364-9\_8

AFFILIATIONS: DICIEAMA, University of Messina, C.Da Di Dio 1, 98166 Messina, Italy

PUBLISHER: Springer Verlag

ISSN: 18650929

ISBN: 9783642453632

DOCUMENT TYPE: Conference Paper

## [51]

Celesti, A., Peditto, N., Verboso, F., Villari, M., Puliafito, A.

DRACO PaaS: A distributed resilient adaptable cloud oriented platform

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84899723935&doi=10.1109%2fIPDPSW.2013.266&partnerID=40&md5=d2ff15a760a0764a0323679a7e69de37>

DOI: 10.1109/IPDPSW.2013.266

AFFILIATIONS: DICIEAMA, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

PUBLISHER: IEEE Computer Society

DOCUMENT TYPE: Conference Paper

## [50]

Kolodner, E.K., Shulman-Peleg, A., Vernik, G., Formisano, C., Villari, M.

Delegation for On-boarding Federation Across Storage Clouds

(2013) Communications in Computer and Information Science, 393 CCIS, pp. 59-70.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904650512&doi=10.1007%2f978-3-642-45364-9\\_6&partnerID=40&md5=8d515009da5ab6801e732e2d335fa9f7](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904650512&doi=10.1007%2f978-3-642-45364-9_6&partnerID=40&md5=8d515009da5ab6801e732e2d335fa9f7)

DOI: 10.1007/978-3-642-45364-9\_6

AFFILIATIONS: IBM Haifa Research Lab, Israel;

Engineering Ingegneria Informatica SPA, Italy;  
Dept. of DICIEMA, University of Messina, Italy  
PUBLISHER: Springer Verlag  
ISSN: 18650929  
ISBN: 9783642453632  
DOCUMENT TYPE: Conference Paper

**[49]**

Celesti, A., Tusa, F., Villari, M., Puliafito, A.

How the Dataweb can support cloud federation: Service representation and secure data exchange  
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[84875618191&doi=10.1109%2fNCCA.2012.26&partnerID=40&md5=5e911776c5eb6dbc87a404a9f0a52caa](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84875618191&doi=10.1109%2fNCCA.2012.26&partnerID=40&md5=5e911776c5eb6dbc87a404a9f0a52caa)

DOI: 10.1109/NCCA.2012.26

AFFILIATIONS: DICIEMA, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166  
Messina, Italy

ISBN: 9780769549439

DOCUMENT TYPE: Conference Paper

**B-[48]**

Villari, M., Brandic, I., Tusa, F.

Achieving federated and self-manageable cloud infrastructures: Theory and practice

(2012) Achieving Federated and Self-Manageable Cloud Infrastructures: Theory and Practice, pp. 1-463.  
Cited 2 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84878295236&doi=10.4018%2f978-1-4666-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84878295236&doi=10.4018%2f978-1-4666-1631-8&partnerID=40&md5=6e8a9677183b0eb793306808397953a4)

[1631-8&partnerID=40&md5=6e8a9677183b0eb793306808397953a4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84878295236&doi=10.4018%2f978-1-4666-1631-8&partnerID=40&md5=6e8a9677183b0eb793306808397953a4)

DOI: 10.4018/978-1-4666-1631-8

AFFILIATIONS: Università Degli Studi di Messina, Italy;  
Distributed Systems Group, Information Systems Institute, Vienna University of Technology (TU Wien),  
Austria;

MDSLab Computer Engineering group, Università Degli Studi di Messina, Italy

PUBLISHER: IGI Global

ISBN: 9781466616318

DOCUMENT TYPE: Book

**[47]**

Villari, M., Brandic, I., Tusa, F.

Preface

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[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84898559376&doi=10.4018%2f978-1-4666-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84898559376&doi=10.4018%2f978-1-4666-1631-8&partnerID=40&md5=a9ae2f53048c0326a50288335f0d04c5)

[1631-8&partnerID=40&md5=a9ae2f53048c0326a50288335f0d04c5](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84898559376&doi=10.4018%2f978-1-4666-1631-8&partnerID=40&md5=a9ae2f53048c0326a50288335f0d04c5)

DOI: 10.4018/978-1-4666-1631-8

AFFILIATIONS: Università Degli Studi di Messina, Italy;

Distributed Systems Group, Information Systems Institute, Vienna University of Technology (TU Wien), Austria;

MDSLab Computer Engineering group, Università Degli Studi di Messina, Italy

PUBLISHER: IGI Global

ISBN: 9781466616318

DOCUMENT TYPE: Editorial

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Tusa, F., Paone, M., Villari, M.

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DOI: 10.4018/978-1-4666-1631-8.ch012

AFFILIATIONS: Università degli Studi di Messina, Italy

PUBLISHER: IGI Global

ISBN: 9781466616318

DOCUMENT TYPE: Book Chapter

#### [45]

Celesti, A., Tusa, F., Villari, M.

Toward cloud federation: Concepts and challenges

(2012) Achieving Federated and Self-Manageable Cloud Infrastructures: Theory and Practice, pp. 1-17.

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DOI: 10.4018/978-1-4666-1631-8.ch001

AFFILIATIONS: Università Degli Studi di Messina, Italy;

MDSLab Computer Engineering group, Università Degli Studi di Messina, Italy

PUBLISHER: IGI Global

ISBN: 9781466616318

DOCUMENT TYPE: Book Chapter

#### [44]

Fazio, M., Paone, M., Puliafito, A., Villari, M.

Heterogeneous sensors become homogeneous things in smart cities

(2012) Proceedings - 6th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing, IMIS 2012, art. no. 6296952, pp. 775-780. Cited 30 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84867709299&doi=10.1109%2fIMIS.2012.136&partnerID=40&md5=e3b18368bb63802fa3bb3955cec05faf>

DOI: 10.1109/IMIS.2012.136

AFFILIATIONS: Faculty of Engineering, University of Messina, Messina, Italy

ISBN: 9780769546841

DOCUMENT TYPE: Conference Paper

**[43]**

Celesti, A., Tusa, F., Villari, M., Puliafito, A.

Integration of CLEVER clouds with third party software systems through a REST web service interface (2012) Proceedings - IEEE Symposium on Computers and Communications, art. no. 6249403, pp. 000827-000832. Cited 20 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866613066&doi=10.1109%2fISCC.2012.6249403&partnerID=40&md5=af36f0db7617f608063728685f9501a8)

[84866613066&doi=10.1109%2fISCC.2012.6249403&partnerID=40&md5=af36f0db7617f608063728685f9501a8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866613066&doi=10.1109%2fISCC.2012.6249403&partnerID=40&md5=af36f0db7617f608063728685f9501a8)

DOI: 10.1109/ISCC.2012.6249403

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina, 98166 Messina, Italy

ISSN: 15301346

ISBN: 9781467327121

DOCUMENT TYPE: Conference Paper

**[42]**

Villari, M., Longo, F., Paone, M., Tusa, F., Jaeger, M.C.

How a structured testbed enables the rapid development and deployment of cloud services: The VISION Cloud use case

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[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866596171&doi=10.1109%2fISCC.2012.6249402&partnerID=40&md5=c7cdf914930dc8044d9e55f82eb92edd)

[84866596171&doi=10.1109%2fISCC.2012.6249402&partnerID=40&md5=c7cdf914930dc8044d9e55f82eb92edd](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866596171&doi=10.1109%2fISCC.2012.6249402&partnerID=40&md5=c7cdf914930dc8044d9e55f82eb92edd)

DOI: 10.1109/ISCC.2012.6249402

AFFILIATIONS: Dipartimento di Matematica, Università Degli Studi di Messina, Viale F. Stagno d'Alcontres, 31, 98166 Messina, Italy;

Siemens AG, Corporate Research and Technologies, D-80200 Munich, Germany

ISSN: 15301346

ISBN: 9781467327121

DOCUMENT TYPE: Conference Paper

**[41]**

Villari, M., Tusa, F., Celesti, A., Puliafito, A.

How to federate VISION clouds through SAML/Shibboleth authentication

(2012) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 7592 LNCS, pp. 259-274. Cited 6 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866018951&doi=10.1007%2f978-3-642-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866018951&doi=10.1007%2f978-3-642-33427-6_22&partnerID=40&md5=313303f37af34e313bc2fb510a0f4a6e)

[33427-6\\_22&partnerID=40&md5=313303f37af34e313bc2fb510a0f4a6e](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866018951&doi=10.1007%2f978-3-642-33427-6_22&partnerID=40&md5=313303f37af34e313bc2fb510a0f4a6e)

DOI: 10.1007/978-3-642-33427-6\_22

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina, Viale F. D'Alcontres 31, 98166, Messina, Italy

ISSN: 03029743

ISBN: 9783642334269

DOCUMENT TYPE: Conference Paper

**[40]**

Fazio, M., Paone, M., Puliafito, A., Villari, M.

Huge amount of heterogeneous sensed data needs the cloud

(2012) International Multi-Conference on Systems, Signals and Devices, SSD 2012 - Summary Proceedings, art. no. 6198117, . Cited 17 times.

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[84861587181&doi=10.1109%2fSSD.2012.6198117&partnerID=40&md5=432cdd2a2138d3a74bf59cdc529cf](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84861587181&doi=10.1109%2fSSD.2012.6198117&partnerID=40&md5=432cdd2a2138d3a74bf59cdc529cf)

DOI: 10.1109/SSD.2012.6198117

AFFILIATIONS: Faculty of Engineering, University of Messina, Messina, Italy

ISBN: 9781467315906

DOCUMENT TYPE: Conference Paper

**J-[39]**

Fazio, M., Paone, M., Puliafito, A., Villari, M.

HSCLOUD: Cloud architecture for supporting Homeland Security

(2012) International Journal on Smart Sensing and Intelligent Systems, 5 (1), pp. 246-276. Cited 7 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859077478&partnerID=40&md5=70085816187efef11bf92274f82a9ba0)

[84859077478&partnerID=40&md5=70085816187efef11bf92274f82a9ba0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859077478&partnerID=40&md5=70085816187efef11bf92274f82a9ba0)

AFFILIATIONS: Faculty of Engineering, University of Messina, Messina, Italy

ISSN: 11785608

DOCUMENT TYPE: Article

**J-[38]**

Celesti, A., Fazio, M., Villari, M., Puliafito, A.

Virtual machine provisioning through satellite communications in federated Cloud environments

(2012) Future Generation Computer Systems, 28 (1), pp. 85-93. Cited 21 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-80052796626&doi=10.1016%2fj.future.2011.05.021&partnerID=40&md5=1dea9fe3716430bcfbe4b8ded988d3c5)

[80052796626&doi=10.1016%2fj.future.2011.05.021&partnerID=40&md5=1dea9fe3716430bcfbe4b8ded988d3c5](https://www.scopus.com/inward/record.uri?eid=2-s2.0-80052796626&doi=10.1016%2fj.future.2011.05.021&partnerID=40&md5=1dea9fe3716430bcfbe4b8ded988d3c5)

DOI: 10.1016/j.future.2011.05.021

AFFILIATIONS: Department of Mathematics, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166, Messina, Italy

ISSN: 0167739X

CODEN: FGCSE

DOCUMENT TYPE: Article

**[37]**

Massonet, P., Naqvi, S., Ponsard, C., Latanicki, J., Rochwerger, B., Villari, M.

A monitoring and audit logging architecture for data location compliance in federated cloud infrastructures

(2011) IEEE International Symposium on Parallel and Distributed Processing Workshops and Phd Forum, art. no. 6009009, pp. 1510-1517. Cited 34 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-83455220824&doi=10.1109%2fIPDPS.2011.304&partnerID=40&md5=ccb1f0f6ea9ead82cbfa9f481473b8b1)

[83455220824&doi=10.1109%2fIPDPS.2011.304&partnerID=40&md5=ccb1f0f6ea9ead82cbfa9f481473b8b1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-83455220824&doi=10.1109%2fIPDPS.2011.304&partnerID=40&md5=ccb1f0f6ea9ead82cbfa9f481473b8b1)

DOI: 10.1109/IPDPS.2011.304

AFFILIATIONS: Centre d'Excellence en Technologies de l'Information et de la Communication (CETIC), Belgium;

Thales Theresis, France;

IBM Haifa Research Lab., Israel;

University of Messina, Italy

ISBN: 9780769543857

DOCUMENT TYPE: Conference Paper

### **J-[36]**

Celesti, A., Villari, M., Puliafito, A.

An XRI naming system for dynamic and federated clouds: A performance analysis

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[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84857530139&doi=10.1007%2fs13174-011-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84857530139&doi=10.1007%2fs13174-011-0038-7&partnerID=40&md5=c7dff876b6ddf7a6c8e8cadb8cc5fa9)

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DOI: 10.1007/s13174-011-0038-7

AFFILIATIONS: Department of Mathematics, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISSN: 18674828

DOCUMENT TYPE: Article

### **[35]**

Tusa, F., Paone, M., Villari, M., Puliafito, A.

CLEVER: A cloud cross-computing platform leveraging GRID resources

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DOI: 10.1109/UCC.2011.65

AFFILIATIONS: Università degli Studi di Messina, Facoltà di Ingegneria, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISBN: 9780769545929

DOCUMENT TYPE: Conference Paper

### **[34]**

Celesti, A., Salici, A., Villari, M., Puliafito, A.

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DOI: 10.1109/NCCA.2011.23

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

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DOCUMENT TYPE: Conference Paper

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Fazio, M., Villari, M., Puliafito, A.

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DOI: 10.1109/ICSensT.2011.6136955

AFFILIATIONS: Faculty of Engineering, University of Messina, Messina, Italy

ISSN: 21568065

ISBN: 9781457701672

DOCUMENT TYPE: Conference Paper

### [32]

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DOI: 10.1109/SERVICES.2011.92

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

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DOI: 10.1109/ISCC.2011.5984011

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

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ISBN: 9781457706783

DOCUMENT TYPE: Conference Paper

### **J-[30]**

Rochwerger, B., Breitgand, D., Epstein, A., Hadas, D., Loy, I., Nagin, K., Tordsson, J., Ragusa, C., Villari, M., Clayman, S., Levy, E., Maraschini, A., Massonet, P., Muñoz, H., Tofetti, G.

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DOI: 10.1109/MC.2011.64

AFFILIATIONS: IBM Haifa Research Lab, Israel;

Umeå University, Sweden;

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SAP Research, Israel;

Telespazio, Italy;

CETIC, Belgium;

Telefónica I+D, Spain;

University of Lugano, Switzerland

ISSN: 00189162

CODEN: CPTRB

DOCUMENT TYPE: Article

### **[29]**

Rochwerger, B., Vázquez, C., Breitgand, D., Hadas, D., Villari, M., Massonet, P., Levy, E., Galis, A., Llorente, I.M., Montero, R.S., Wolfsthal, Y., Nagin, K., Larsson, L., Galán, F.

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79955788614&doi=10.1002%2f9780470940105.ch15&partnerID=40&md5=d1d8c9977c56e9b7bae1400465f1a415

DOI: 10.1002/9780470940105.ch15

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Department of Computing Science, University Umea, Sweden;  
Telefónica I+D, Emilio Vargas, Madrid, 28043, Spain  
PUBLISHER: John Wiley and Sons  
ISBN: 9780470887998  
DOCUMENT TYPE: Book Chapter

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Celesti, A., Tusa, F., Villari, M., Puliafito, A.  
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DOI: 10.1109/INTERNET.2010.20  
AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy  
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DOI: 10.1007/978-3-642-12636-9\_5  
AFFILIATIONS: Centre d'Excellence en Technologies de l'Information et de la Communication, Belgium;  
Università degli Studi di Messina, Facoltà di Ingegneria, Italy;  
Thales, France  
ISSN: 18678211  
ISBN: 3642126359; 9783642126352  
DOCUMENT TYPE: Conference Paper

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DOI: 10.1109/NCA.2010.16

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISBN: 9780769541181

DOCUMENT TYPE: Conference Paper

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DOI: 10.1109/ISIAS.2010.5604072

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina Contrada di Dio, S. Agata, 98166 Messina, Italy

ISBN: 9781424474080

DOCUMENT TYPE: Conference Paper

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DOI: 10.1109/CLOUD.2010.46

AFFILIATIONS: Università degli Studi di Messina, Facoltà di Ingegneria, Contrada di Dio, S. Agata, 98166 Messina, Italy

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DOI: 10.1109/AFIN.2010.23

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina, Contrada di Dio, S. Agata, 98166 Messina, Italy

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DOCUMENT TYPE: Conference Paper

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Giacobbe, M., Puliafito, A., Villari, M.

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DOI: 10.1109/ISCC.2010.5546553

AFFILIATIONS: Faculty of Engineering, University of Messina, Contrada Di Dio (s. Agata), 98166 Messina (ME), Italy

ISSN: 15301346

ISBN: 9781424477555

DOCUMENT TYPE: Conference Paper

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Tusa, F., Paone, M., Villari, M., Puliafito, A.

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DOI: 10.1109/ISCC.2010.5546555

AFFILIATIONS: Università Degli Studi di Messina, Facoltà di Ingegneria, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISSN: 15301346

ISBN: 9781424477555

DOCUMENT TYPE: Conference Paper

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Celesti, A., Tusa, F., Villari, M., Puliafito, A.

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DOI: 10.1109/WETICE.2010.49

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina Contrada di Dio, S. Agata, 98166 Messina, Italy

ISSN: 15244547

ISBN: 9780769540634

CODEN: PETEF

DOCUMENT TYPE: Conference Paper

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DOI: 10.1145/1787275.1787305

AFFILIATIONS: Dept. of Mathematics, Faculty of Engineering, University of Messina, Italy

ISBN: 9781450300445

DOCUMENT TYPE: Conference Paper

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AFFILIATIONS: Thales - Theresis, France;

Centre d'Excellence en Technologies de l'Information et de la Communication, Belgium;

IBM Haifa Research Lab., University Campus, Haifa 31905, Israel;

Università degli Studi di Messina, Facoltà di Ingegneria, Italy

PUBLISHER: IOS Press

ISBN: 9781607505389

DOCUMENT TYPE: Book Chapter

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Tusa, F., Villari, M., Puliafito, A.

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DOI: 10.4018/jdst.2010090805

AFFILIATIONS: Università Degli Studi di Messina, Italy

PUBLISHER: IGI Global

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DOCUMENT TYPE: Article

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Design and implementation of a secure XML-based grid file storage system with reliability features (2009) Proceedings - IEEE Symposium on Computers and Communications, art. no. 5202280, pp. 544-549.

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DOI: 10.1109/ISCC.2009.5202280

AFFILIATIONS: Università degli Studi di Messina, Facoltà di Ingegneria, Contrada di Dio, 98166 Messina, Italy

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DOI: 10.1109/WETICE.2009.31

AFFILIATIONS: Università degli Studi di Messina, Facoltà di Ingegneria, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISSN: 15244547

ISBN: 9780769536835

CODEN: PETEF

DOCUMENT TYPE: Conference Paper

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DOI: 10.4018/jbdcn.2009010103

AFFILIATIONS: Università di Messina, Italy

ISSN: 15480631

DOCUMENT TYPE: Article

### [13]

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DOI: 10.1109/WIOPT.2007.4480092

AFFILIATIONS: Università di Messina, Facolta' di Ingegneria, Contrada di Dio, S. Agata, 98166 Messina, Italy

ISBN: 1424409616; 9781424409617

DOCUMENT TYPE: Conference Paper

### [12]

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DOI: 10.1109/AINA.2006.350

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ISBN: 0769524664; 9780769524665

DOCUMENT TYPE: Conference Paper

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(2006) Computer Communications, 29 (8), pp. 1189-1200. Cited 28 times.

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[33646506637&doi=10.1016%2fj.comcom.2005.07.006&partnerID=40&md5=b98f0b7e87c8ef6ae7b6050a829695e1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-33646506637&doi=10.1016%2fj.comcom.2005.07.006&partnerID=40&md5=b98f0b7e87c8ef6ae7b6050a829695e1)

DOI: 10.1016/j.comcom.2005.07.006

AFFILIATIONS: Dipartimento di Matematica, Università di Messina, Contrada Papardo-Salita Sperone, 31, 98166 Messina, Italy

ISSN: 01403664

CODEN: COCOD

DOCUMENT TYPE: Article

### **J-[10]**

Fazio, M., Villari, M., Puliafito, A.

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DOI: 10.1016/j.comnet.2005.04.017

AFFILIATIONS: Università di Messina, Dipartimento di Matematica, Contrada Papardo-Salita Sperone, 31, 98166 Messina, Italy;

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Faculty of Engineering, University of Messina, Italy;

Department of Matters Database, Laboratorio di Informatica, Italy;

Department of Computer Engineering, University of Messina, Italy;

University of Messina, Italy

ISSN: 13891286

CODEN: CNETD

DOCUMENT TYPE: Article

### **[09]**

Das, G., Fazio, M., Villari, M., Puliafito, A.

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**According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV**

14 Settembre 2022

Massimo Villari