

CURRICULUM VITAE

Massimo Ficco, Ph.D.

Assistant Professor

Department of Engineering
University of Campania Luigi Vanvitelli
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EDUCATION

- 2010 : Ph.D. in Information Engineering, University of Parthenope;
2000 : Graduated in Informatics Engineering, University of Naples Federico II.

FULL-TIME POSITIONS

- Present : Associate Professor at the University of Campania Luigi Vanvitelli;
2011-18 : Assistant Professor at the University of Campania Luigi Vanvitelli;
2006-10 : Senior Researcher at the Italian Interuniversity Consortium for Computer Science;
2001-05 : Researcher at the Italian Interuniversity Consortium for Computer Science;
2000 : Grant at University of Naples Federico II.

COURSES TAUGHT

- 2017-18 : *IoT Programming*, University of Campania Luigi Vanvitelli;
2012-18 : *Software Reliability and Security*, University of Campania Luigi Vanvitelli;
2012-18 : *Object Programming*, University of Campania Luigi Vanvitelli;
2011-12 : *Software Engineering and Information systems*, University of Camp. Luigi Vanvitelli;
2009-10 : *Software Engineering II*, University of Campania Luigi Vanvitelli;
2005-08 : *Software Engineering I*, University of Campania Luigi Vanvitelli;
2006-08 : *Data Base*, University of Federico II;
2003-06 : *Computer Science Elements and Informatics Techniques*, University of Federico II;
2002-03 : *Computer Science*, University of Naples Federico II.

MEMBER IN PHD THESIS DEFENCE COMMITTEES

- Feb. 2018 - Università degli Studi di Napoli Parthenope (IT);
Feb. 2017 - Università degli Studi di Napoli Parthenope (IT);
Gen. 2017 - PSNA College of Engineering and Technology, Dindigul, Tamil Nadu, India;
Set. 2016 - PSNA College of Engineering and Technology, Dindigul, Tamil Nadu, India;
Mar. 2012 - Università degli Studi di Napoli Parthenope (IT).

RESEARCH INTERESTS

- Cloud and IoT Security;
- Security and reliability aspects of critical infrastructure;
- Software engineering architecture;
- Mobile Computing.

SCIENTIFIC PROJECTS

- 2015-18 - Principal Investigator, MUSA - *MUlti-cloud Secure Applications* (H2020-ICT-2014-1);
- 2014-16 - Principal Investigator, COSMMIC - *Collaborating Smart Solar-Powered Microgrids*, (FP7-SMARTCITIES-608806);
- 2013-16 - Principal Investigator, SPECS - *Secure Provisioning of Cloud Services based on SLA management* (FP7-ICT 2013-2016);
- 2014-16 - Scientific Coordinator, ITINERE - *InTegrated and INteroperable systEm for Railway Enhanced application*, Sportello dell'Innovazione di cui al D.D. N.1 del 05/02/14, POR Campania FESR 2007-2013 - O.O. 2.1;
- 2013-16 - Principal Investigator, CRYSTAL, *Critical System Engineering Acceleration*, SP1-JTI-ARTEMIS-2012-AIPP1-332830.
- 2013-15 - Unit Coordinator, DISPLAY, *Piattaforma di simulazione ibrida e distribuita per i sistemi ATM e VTS*, potenziamento di laboratori pubblico-privato, PON Ricerca e Competitività 2007-2013 per le Regioni della Convergenza D.D. MIUR n.713/Ric. del 29 ottobre 2010 e D.D. MIUR n. 660Ric. e 664/Ric. dell'8/10/2012;
- 2013-15 - Principal Investigator, MINIMINDS - *Middleware for INteroperability and Integration of MIssioN Critical Dependable Systems*, potenziamento di laboratori pubblico-privato, PON Ricerca e Competitività 2007-2013 per le Regioni della Convergenza D.D. MIUR n.713/Ric. del 29 ottobre 2010 e D.D. MIUR n. 660Ric. e 664/Ric. dell'8/10/2012;
- 2010-13 - Project Manager, mOSAIC - *Source API and Platform for Multiple Clouds*, (FP7-ICT-2009-5-256910);
- 2010-12 - Principal Investigator, DOTS-LCCI - *Dependable Off-The-Shelf based Middleware Systems for Large-scale Complex Critical Infrastructures*, Program of Relevant National Interest (PRIN), no. 2008LWRBHF;
- 2009-10 - Principal Investigator, CRITICAL-STEP - *Collaborazione scientifica nell'ambito del progetto Software Technology for an Evolutionary Partnership*, (FP7-PEOPLE-230672);
- 2008-10 - Principal Investigator, INSPIRE - *INcreasing Security and Protection through Infrastructure REsilience* (FP7-SEC-2008-225553);
- 2008-09 - Principal Investigator, INTERSECTION, *INFrastructure for heTERogeneous, Resilient, SECure, Complex, Tightly Inter Operating Networks* (FP7-SEC-216585);
- 2008-10 - Scientific Coordinator, Project NET-UNO - Misura 3.17 of the POR Campania 2000/2006;
- 2007-09 - Task Leader, COSMIC - Laboratorio Pubblico-Privato tra CINI, DIS UNINA, CRIAI e SELEX-SI (azienda Finmeccanica). Legge 287/1999 Art. 12/lab/Decr. Diret. 14/3/2005 prot. n° 602/Ric/2005 (MIUR);
- 2003-06 - Principal Investigator, PON PETIT-OSA - *Piattaforme Evolute di Telecomunicazioni e di Information Technology per l'Offerta di Servizi al Settore Ambiente*, Fondo per le Agevolazioni alla Ricerca – FAR;
- 2002-06 - Principal Investigator, FIRB WEB MINDS - *Wide-scalE, Broadband, Middleware for Network Distributed Services*, Fondo per gli Investimenti della Ricerca di Base;

- 2003-05 - Principal Investigator, INTERMON - *Advanced architecture for INTER-domain quality of service MONitoring, modelling and visualization* (IST-FP5-2001-34123);
- 2001-02 - Principal Investigator, CADENUS - *Creation and Deployment of End-User Services in Premium IP Networks*, (FP5-IST-1999-11017);
- 2001-02 - Principal Investigator, LABNET 2, MURST Legge 488 Ricerca;
- 2000-02 - Principal Investigator, GUARDIANS - *Gateway for User Access to Remote Distributed Information and Network Services* (FP5-IST-1999-20758).
- 2000-01 - Principal Investigator, LABNET Infrastrutture, MURST Legge 488 Ricerca.

AWARDS

- Awards - FFABR 2017 (Fondo per il Finanziamento delle Attività Base di Ricerca), all'ART. 1, commi 295, della Legge 11 dic. 2016 N. 232.
- Certificate of Appreciation - Significant contribution to the 8th Int. Conf. on Intelligent Networking and Collaborative Systems (INCoS-2016), Technical University of Ostrava, Czech Republic, Sept. 7 - 9, 2016.
- Certificate of Appreciation - Significant contribution to the 10th Int. Conf. on P2P, Parallel, Grid, Cloud and Internet Computing (3GPCIC-15), Krakow, Poland, Nov. 4-6, 2015.
- Best Paper Award - The 8th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2014), with the article entitled "*Adaptive Stealth Energy-related DoS Attacks Against Cloud Data Centers*", Birmingham, UK, July 2014.

EDITOR AND EDITORIAL BOARD MEMBER

- 2018- Present: Editorial Board Member, “*Computers*”, published by MDPI (indexed by Scopus), ISSN: 2073-431X, <https://www.mdpi.com/journal/computers>
- 2018- Present: Editorial Board Member, “*Sensors*”, published by MDPI (indexed by Scopus), IF: 2.475 (2017), ISSN: 1424-8220, <https://www.mdpi.com/journal/sensors>
- 2016-Present: Editorial Board Member, “*International Journal of Embedded Systems (IJES)*”, published by Inderscience (indexed by Scopus), ISSN: 1741-1068, <http://www.inderscience.com/jhome.php?jcode=IJES>
- 2016-Present: Editorial Board Member, “*Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA)*”, published by Innovative Information Science & Technology Research Group (indexed by Scopus), ISSN: 2093-5374, <http://jowua.com/>
- 2015-Present: Editorial Board Member, “*International Journal of Computer Networks and Applications (IJCNA)*”, published by EverScience Publications, ISSN: 2395-0455, <http://www.ijcna.org/>
- 2014-Present: Associate Editor, “*Journal of High Speed Networks (JHSN)*”, published by IOS Press (indexed by Scopus), ISSN 0926-6801, <http://www.iospress.nl/journal/journal-of-high-speed-networks/>
- 2013-Present: Editor in Chief, “*Journal of Cloud Computing Research (JCCR)*”, published by Columbia International Publishing, <http://jccr.uscip.us/Default.aspx>
- 2012-Present: Editorial Board Member, “*Journal of Internet Services and Information Security (JISIS)*”, published by Innovative Information Science & Technology Research Group, ISSN 2182-2069, <http://www.jisis.org/>

GUEST EDITOR

- 2018: “*Smart Monitoring and Protection of Data-Intensive Cyber-Physical Critical Infrastructures*”, Mar. 2019, to be published in “*Int. J. of High Performance Computing and Networking*”, Inderscience.
- 2018: “*Internet-of-Things and Fog-Computing as Enablers of new security and privacy threats*”, May 2019, to be published in “*Internet of Things*”, ISSN: 2542-6605, Elsevier Academic Press.
- 2017: “*Security and Resilience in Intelligent Data-Centric Systems and Communication Networks, 1st Edition*”, Series: Intelligent Data-Centric Systems: Sensor Collected Intelligence, Sep. 2017, pp. 1-366, ISBN: 9780128113738, Elsevier Academic Press.
- 2016: “*Security and Reliability of Critical Systems*, published in “*Journal of Ambient Intelligence and Humanized Computing (JAIHC)*”, vol. 7, no. 2, Apr. 2016, pp. 149-151. Impact Factor: 1.588 (2016), DOI: 10.1007/s12652-016-0348-5, ISSN: 1868-5137, Springer Berlin Heidelberg.

SCIENTIFIC COMMITTEES, TRACK SESSIONS AND CONFERENCE CHAIRMANSHIPS

KEYNOTE SPEAKER

- Keynote – Title: “*Hybrid Simulation of Distributed Large-Scale Critical Infrastructures*”. The 8th Int. Conf. on Image Processing & Communications, Bydgoszcz, Poland in Sep. 07-09, 2016, <http://www.ipc-conference.utp.edu.pl/>

CHAIR E PROGRAM CHAIR

- Programme Chair - 33rd ECMS Int. Conf. on *Modelling and Simulation*, Jun. 11-14, 2019, Caserta, Italy, <http://www.scs-europe.net/conf/ecms2019/committee.html>
- Publication Chair - The 10th Int. Sym. on Cyberspace Safety and Security (CSS 2018), Oct. 24-26, 2018, Amalfi, Italy, <http://css2018.di.unisa.it/>
- Programme Committee Chair - The 13th Int. Conf. on *P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC-2018)*, Oct. 27-29, Tunghi University, Taichung, Taiwan, <http://voyager.ce.fit.ac.jp/conf/3pgcic/2018/committee.php>
- Chair - The 2nd Workshop on *Security and Privacy in Systems and Communication Networks* (SecureSysComm 2016), Sep. 7-9, 2016, Ostrava, Czech Republic, <http://wpage.unina.it/ficco/SecureSysComm2016/home.html>
- Chair - The Workshop on *Security and Privacy in Systems and Communication Networks* (SecureSysComm 2015), Nov. 4-6, 2015, Krakow, Poland, <http://wpage.unina.it/ficco/SecureSysComm2015/home.html>
- Chair - The 2nd Workshop on *Cyber Security and Resilience of Large-Scale Systems* (WSRL 2015), Oct. 7-9, 2015, Guimarães, Portugal, <http://parsec.unina2.it/a4c/index.php/wsrl-2015>
- Chair - The 1st Workshop on *Cyber Security and Resilience of Large-Scale Systems* (WSRL 2014), Sep. 2014, Madrid, Spain, <http://parsec.unina2.it/a4c/index.php/home-wsrl-2014>
- Organizing Chair - 1st Int. Workshop on *Multimedia Interactive Protocols and Systems* (MIPS03), Naples, Nov. 2003.

TRACK-CHAIR

- Track: Context and Location-aware Computing - The 12th Int. Conf. on *Innovative Mobile and Internet Services in Ubiquitous Computing* (IMIS-2018), Matsue, Japan, Jul. 4-6, 2018, <http://voyager.ce.fit.ac.jp/conf/imis/2018/committee.php>
- Track: Wireless Networks and Applications - The 12th Int. Conf. on Broad-Band Wireless Computing, Communication and Applications (BWCCA-2017), Barcelona, Spain, Nov. 8-10, 2017, <http://voyager.ce.fit.ac.jp/conf/bwcca/2017/>
- Track: Context and Location-aware Computing - The 11th Int. Conf. on *Innovative Mobile and Internet Services in Ubiquitous Computing* (IMIS-2017), Istituto Superiore Mario Boella (ISMB), Torino, Italy, Jun. 28-30, 2017, <http://voyager.ce.fit.ac.jp/conf/imis/2017/>
- Track: Information Systems in the Cloud - The 13th Conference of the Italian Chapter of AIS (ItaIS 2016), Verona, Italy, Oct. 7-8, 2016, <http://www.itaais.org/conference/2016/>
- Track: Context and Location-aware Computing - The 10th Int. Conf. on *Innovative Mobile and Internet Services in Ubiquitous Computing* (IMIS-2016), Fukuoka Institute of Technology (FIT), Japan, Jul. 6-8, 2016, <http://voyager.ce.fit.ac.jp/conf/imis/2016/>
- Track: Information Systems in the Cloud - The 12th Conf. of the Italian Chapter of the Association for Information Systems (ItaIS 2015), Sapienza – University of Rome, Italy, Oct. 9-10, 2015, <http://www.itaais.org/conference/2015/>
- Track: Context and Location-aware Computing - The 9th Int. Conf. on *Innovative Mobile and Internet Services in Ubiquitous Computing* (IMIS-2015), Blumenau, Brazil, July 8-10, 2015, <http://voyager.ce.fit.ac.jp/conf/imis/2015/>
- Track: Collaborative and Cooperative Environments - The 16th IEEE Int. Conf on *High Performance Computing and Communications* (HPCC14), Paris, France, Aug. 20-22, 2014, <http://conference.hpcc2014.studiocheik.fr/>
- Track: Context and Location-aware Computing - The 8th Int. Conf. on *Innovative Mobile and Internet Services in Ubiquitous Computing* (IMIS-2014), Birmingham, UK, Jul. 2-4, 2014, <http://voyager.ce.fit.ac.jp/conf/imis/2014/>
- Track: Cloud Computing: Services, Storage, Security and Privacy - The 6th Int. Conf. on *Intelligent Networking and Collaborative Systems* (INCoS-2014), Salerno, Italy, Sep. 10-12, 2014, <http://voyager.ce.fit.ac.jp/conf/incos/2014/>
- Track: Information Systems in the Cloud - The 11th Conf. of the Italian Chapter of AIS (ItaIS 2014), Genoa, Italy, Nov. 21-22, 2014, <http://www.itaais.org/itaais2014/>
- Track: Collaborative and Cooperative Environments - The 15th IEEE Int. Conf on *High Performance Computing and Communications* (HPCC13), Zhangjiajie, China, Nov. 13-15, 2013, <http://trust.csu.edu.cn/conference/hpcc2013/>
- Track: Sensor as a Service, Pervasive and Ubiquitous Computing - The Int. Conf. on *P2P, Parallel, Grid, Cloud and Internet Computing* (3PGCIC-2013), Compiegne, France, Oct. 28-30, 2013, www.cs.upc.edu/~net4all/3PGCIC-2013/
- Track: Information Systems in the Cloud - The 10th Conf. of the Italian Chapter of AIS (ItaIS 2013), Milano, Italy, Dec. 13-14, 2013, www.itaais.org/itaais2013/

TECHNICAL PROGRAM COMMITTEE

- The 4th Int. Conf. on *Signal Processing and Pattern Recognition*, Aug. 25-6, 2018, Dubai, UAE, <https://csen2018.org/sipr/index.html>
- The 14th Int. Conf. on *Information Assurance and Security* (IAS 2018), Porto, Portugal, Dec. 13-15, 2018, <http://www.mirlabs.net/ias18/>
- The 3rd Int. Conf. on Cyber-Technologies and Cyber-Systems (CYBER 2018), Athens, Greece, Nov. 18-22, 2018, <http://www.iaria.org/conferences2018/CYBER18.html>

- The 10th Int. Conf. on Intelligent Networking and Collaborative Systems (INCoS-2018), Comenius University, Bratislava, Slovakia, Sept. 5-7, 2018, <http://voyager.ce.fit.ac.jp/conf/incos/2018/>
- The 21st IEEE Int. Conf. on Computational Science and Engineering, Bucharest, Romania, Oct. 24-26, 2018, <http://cse2018.hpc.pub.ro>
- The 10th IEEE Int. Conf. on *Cloud Computing Technology and Science* (CloudCom 2018), Nicosia, Cyprus, Dec. 10-13, 2018, <http://cyprusconferences.org/cloudcom2018/>
- The 31st Annual Congress ISTA-2018, London, United Kingdom, Oct. 10-13, 2018, <https://www.istaonline.org/congress/ista-2018-london>
- The IEEE Int. Conf. on *Computing, Electronics & Communications Engineering* (iCCECE '18), University of Essex, Southend (UK), Aug. 16-17, 2018, <http://www.iccece18.theiaer.org>
- The 5th Int Work. on *Energy-Aware Systems, Communications and Security* (EASyCoSe-2018), Pedagogical University of Cracow, Poland, May 16-18, 2018, <http://voyager.ce.fit.ac.jp/conf/aina/2018/>
- The 32nd IEEE Int. Conf. on *Advanced Information Networking and Applications* (IEEE AINA-2018), Pedagogical University of Cracow, Poland, May 16-18, 2018, <http://voyager.ce.fit.ac.jp/conf/aina/2018/>
- The 32nd European Conf. on *Modelling and Simulation*, May 22-25, 2018, Wilhelmshaven, Germany, <http://www.scs-europe.net/conf/ecms2018/index.html>
- The 10th Int. Conf. on *Security, Privacy and Anonymity in Computation, Communication and Storage* (SpaCCS 2017), Zhangjiajie, China, Nov. 16-18, 2016, <http://trust.gzhu.edu.cn/conference/SpaCCS2017/>
- The 15th IEEE Int. Symp. on *Parallel and Distributed Processing with Applications* (IEEE ISPA 2017), Guangzhou, China, Dec. 12-15, 2017, <http://trust.gzhu.edu.cn/conference/ISPA2017/>
- The 9th Int. Symp. on *Cyberspace Safety and Security*, Xi'An, China, Oct. 23-25, 2017, <http://anslab.org/events/CSS17/committees.html>
- The 8th EAI Int. Conf. on *Big Data Technologies and Applications*, South Korea, Gwangju, Nov. 23-24, 2017, <http://www.infoscale.org/2017>
- The 2nd Int. Conf. on *Advanced Wireless Information and Communication Technologies* (AWICT 2017), Paris, France, Nov. 13-14, 2017, <https://bindscience.com/awict/>
- The 3rd Int. Symp. on *Intelligent Systems Technologies and Applications* (ISTA'17), Manipal, India, Sep. 13-16, 2017, <http://www.acn-conference.org/ista2017/>
- The 11th Int. Symp. on *Intelligent Distributed Computing* (IDC 2017), Belgrade, Serbia, Oct. 11-13, 2017, <http://idc2017.pmf.uns.ac.rs/>
- The 2nd Int. Conf. on *Green, Pervasive and Cloud Computing* (GPC-2017), May 11-14, 2017, Cetara, Amalfi, Italy, <http://gpc2017.di.unisa.it/>
- The Int. Conf. on *High Performance Modelling and Simulation* (HiPMoS 2017), May 31-Jun. 2, 2017, Budapest, Hungary, <http://www.dem.unina2.it/hipmos/?q=node/13>
- The 31st IEEE Int. Conf. on Advanced Information Networking and Applications (AINA-2017), Mar. 27-29, 2017, Taipei, Taiwan, <http://voyager.ce.fit.ac.jp/conf/aina/2017/>
- The 7th Int. Conf. on *Emerging Ubiquitous Systems and Pervasive Networks* (EUSPN-2016), Sep. 19-22, 2016, London, United Kingdom, <http://cs-conferences.acadiau.ca/euspn-16/>
- The 10th Int. Symp. on *Intelligent Distributed Computing* (IDC 2016), Oct. 10-12, 2016, Paris, France, <http://idc2016.ip6.fr>
- The 7th EAI Int. Conf. on *Big Data Technologies and Applications* (BDTA 2016), Nov. 17-18, 2016, Seoul, South Korea, <http://www.infoscale.org/2016/show/home>
- The 8th IEEE Int. Symp. on *UbiSafe Computing* (IEEE UbiSafe 2016), Tianjin, China, Aug. 23-26, 2016, <http://trust.csu.edu.cn/conference/UbiSafe2016>
- The 16th Int. Conf. on *Algorithms and Architectures for Parallel Processing* (ICA3PP 2016), Granada, Spain, Dec. 14th-16th, 2016, <http://www.arcos.inf.uc3m.es/wp/ica3pp2016>
- The Int. Conf. on *High Performance Modelling and Simulation* (HiPMoS 2015), May 31-Jun. 2, 2016, Regensburg, Germany, <http://www.dem.unina2.it/hipmos/?q=node/9>

- The 8th Int. Conf. on *Intelligent Networking and Collaborative Systems* (INCoS-2016), Technical University of Ostrava, Czech Republic, Sep. 7-9, 2016, <http://voyager.ce.fit.ac.jp/conf/incos/2016/>
- The 10th Int. Conf. on *Broadband and Wireless Computing, Communication and Applications* (BWCCA), Krakow, Poland, Nov. 4-6, 2015, <http://www.cs.upc.edu/~net4all/BWCCA-2015/committees.html>
- The 15th Int. Conf. on *Algorithms and Architectures for Parallel Processing* (ICA3PP), Zhangjiajie, China, Nov. 18-20, 2015, <http://trust.csu.edu.cn/conference/ICA3PP2015/>
- The Int. Conf. on *Network-Based Information Systems* (NBiS), Taipei, Taiwan, Sep. 2-4, 2015, <http://voyager.ce.fit.ac.jp/conf/nbis/2015/>
- The 10th Int. Conf. on *Parallel, Grid, Cloud and Internet Computing* (3PGCIC), in Krakow, Poland, Nov. 4-6, 2015, www.cs.upc.edu/~net4all/3PGCIC-2015/
- The 9th Int. Symposium on *Intelligent Distributed Computing* (IDC'2015), Guimarães, Portugal, Oct. 7-9, 2015, <http://islab.di.uminho.pt/idc2015/>
- The 9th Int. Conf. on *Complex, Intelligent, and Software Intensive Systems* (CISIS-2015), Blumenau, Brazil, Jul. 8-10, 2015, voyager.ce.fit.ac.jp/conf/cisis/2015/
- The Int. Conf. on Computer Networks and Information Security (CNIS2015), Changsha, Hunan, China, Jan. 8-10, 2015, <http://www.cnis2015.com/>
- The 29th IEEE Int. Conf. on *Advanced Information Networking and Applications* (AINA-2015), Gwangju, Korea, Mar. 25-27, 2015, voyager.ce.fit.ac.jp/conf/aina/2015/
- The 10th Int. Conf. on IEEE *Information Assurance and Security* (IAS14), Vancouver, BC Canada, Oct. 27-29, 2014, <http://www.mirlabs.net/ias14/>
- The 11th IEEE Int. Conf. on *Autonomic and Trusted Computing* (ATC-2014), Ayodya Resort, Bali, Indonesia, Dec. 9-12, 2014, <http://cse.stfx.ca/~atc2014/>
- The 14th Int. Conf. on *Algorithms and Architectures for Parallel Processing* (ICA3PP 2014), Dalian, China, Aug. 24-27, 2014, <http://action.dlmu.edu.cn/ica3pp2014/>
- The 4th IFIP Int. Workshop on *Security and Cognitive Informatics for Homeland Defense* (SeCIHD 2014), University of Fribourg, Switzerland, Sep. 8-12, 2014, <http://isyou.info/conf/secihd14/>
- The IEEE Int. Conf. on *Pervasive Intelligence and Computing* (PICOM-2014), Dalian, China, Aug. 23-27, 2014, <http://action.dlmu.edu.cn/uscence/picom2014/index.shtml>
- The 2nd Int. Workshop on *Location-based Services and Applications in Ubiquitous Computing* (LSAUC 2014), Bologna, Italy, July 21-25, 2014, <http://hpcs2014.cisedu.info/2-conference/workshops/workshop-22-lsauc>
- The 2nd Int. Workshop on *Energy-Aware Systems, Communications and Security* (EASyCoSe 2014), Salerno, Italy, Sep. 10-12, 2014, <http://wpage.unina.it/fpalmier/EASyCoSe2014/EASyCoSe2014/Home.html>
- The 11th Int. Conf. on *Mobile Web Information Systems* (MobiWIS 2014), Barcelona, Spain, Aug. 27-29, 2014, <http://mobiwis.org/2014/>
- The 6th Int. Conf. on *Advanced Service Computing*, Venice, Italy, May 25-29, 2014, <http://www.aria.org/conferences2014/SERVICECOMPUTATION14.html>
- The 1st Int. Workshop on *Real-time Big Data Analytics for Critical Infrastructure Protection* (BIG4CIP 2014), Newcastle, UK, May 7, 2014, <http://big4cip.altervista.org/CFP.pdf>
- The Special Session on *Multi-Clouds: MultiCloud 2014*, Barcelona, Spain, Apr. 3-5, 2014, <http://closer.scitevents.org/MultiCloud.aspx?y=2014>
- The 9th Int. Conf. on *Information Assurance and Security* (IAS13), Yassmine Hammamet, Tunisia, Dec. 4-6, 2013, http://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=32960
- The 10th IEEE Int. Conf. on *Autonomic and Trusted Computing* (ATC-2013), Vietri sul Mare, Italy, Dec. 18-20, 2013, <http://cse.stfx.ca/~atc2013/>
- The Int. Conf. on *Service Computation*, Valencia, Spain, Jun. 27-30, 2013, <http://www.aria.org/conferences2013/SERVICECOMPUTATION13.html>

- The 3rd IFIP Int. Conf. on *Security and Cognitive Informatics for Homeland Defense* (SeCIHD 2013), Germany, Sep. 2-6, 2013, <http://isyou.info/conf/secihd13/>
- The 2nd Int. Conf. on *Agents for Cloud* (A4C13), Prague, Czech Republic, Sep. 4-6, 2013, <http://parsec.unina2.it/a4c/index.php/a4c-2013-home>
- The 10th IEEE Int. Conf. on *Ubiquitous Intelligence and Computing* (UIC-2013), Vietri sul Mare, Italy, Dec. 18-20, 2013, <http://cse.stfx.ca/~uic2013/>
- The 4th Int. Conf. on *Advanced Service Computing*, Nice, France, Jul. 22-27, 2012, <http://www.aria.org/conferences2012/SERVICECOMPUTATION12.html>
- The 8th Int. Conf. on *Information Assurance and Security* (IAS12), Nov. 21-23, 2012, <http://www.mirlabs.net/ias12/>
- The IEEE Int. Conf. on *Pervasive Services* (ICPS11), Casablanca, Morocco, May 2011.

REVIEWER OF JOURNAL

- **IEEE Journal**
 - IEEE Transactions on Cloud Computing (TCC);
 - IEEE Transactions on Information Forensics & Security (TIFS);
 - IEEE Transactions on Emerging Topics in Computing (TETC);
 - IEEE Transactions on Network and Service Management (TNSM);
 - IEEE Transactions on Parallel and Distributed Systems (TPDS);
 - IEEE Transactions on Dependable and Secure Computing (TDSC);
 - IEEE Journal on Selected Areas in Communications (JSAC);
 - IEEE Systems Journal (ISJ);
 - IEEE Wireless Communications Magazine (WCM);
 - IEEE Cloud Computing Magazine (CCM);
 - IEEE Communications Magazine (COMMAG);
 - IEEE Communications Surveys & Tutorials;
 - IEEE Communications Letters;
 - IEEE Access.
- **Elsevier Journal**
 - Future Generation Computer Systems (FGCS);
 - Journal of Engineering Science and Technology (JESTCH);
 - Journal of Electronics and Communications (AEUE);
 - Applied Computing and Informatics (ACI);
 - Journal of Information Security and Applications (JISA);
 - Journal of Computer Networks (COMNET);
 - Journal of Knowledge-Based Systems (KBS);
 - Journal of Network and Computer Applications (JNCA);
 - Neurocomputing (NEUCOM);
 - Journal of Systems and Software (JSS);
 - Egyptian Informatics Journal (EIJ);
 - Journal of Systems Architecture (JSA);
 - Journal of Computer and System Sciences (JCSS);
 - Journal Expert Systems With Applications (ESWA);
 - Journal Computers and Electrical Engineering (JCEE);
 - Elsevier Editorial System (EES);
 - Information Fusion (INFFUS);
 - Information Sciences (INS);
 - Journal of Computational Science (JOCS);
 - Journal of Parallel and Distributed Computing (JPDC).

- **Wiley Journal**
 - Journal of Wireless Communications & Mobile Computing (WCMC);
 - Journal of Software: Practice and Experience (SPE);
 - Concurrency and Computation: Practice and Experience (CCPE);
 - Data Mining and Knowledge Discovery (WIREs).
- **ACM Journal**
 - ACM Transactions on Autonomous and Adaptive Systems (TAAS);
 - ACM Computing Surveys (CSUR).
- **Springer Journal**
 - Journal of Soft Computing (SOCO);
 - Journal of Grid Computing (JGC);
 - Journal of Mobile Networks and Applications (JMNA).
- **Inderscience Journal**
 - Journal of Grid and Utility Computing (IJGUC);
 - Journal of Ad Hoc and Ubiquitous Computing (IJAHUC);
 - Journal of Computational Science and Engineering (JCSE);
 - Journal of High Performance Computing and Networking (JHPCN);
 - Journal of Critical Computer-Based Systems (JCCBS);
 - Journal of Bio-Inspired Computation (JBIC);
 - Journal of Computational Science and Engineering (IJCSE).
- **Altri Journal**
 - Journal of Wireless Communications and Mobile Computing, SciencePG;
 - Journal of Systems Science, Taylor & Francis;
 - Journal of High Speed Networks (JHSN), IOS Press;
 - Journal of Sensors, MDPI;
 - Journal of Game Theory, MDPI.

PUBLICATIONS

JOURNAL ARTICLES

1. B. Di Martino, M. Rak, M. Ficco, A. Esposito, S. A. Maisto, and S. Nacchia. *Internet of things reference architectures, security and interoperability: A survey*, Internet of Things, Sep. 2018, vol. 1-2, pp. 99-112, DOI: 10.1016/j.iot.2018.08.008, ISSN: 2542-6605, Elsevier.
2. M. Ficco, R. Pietrantuono, S. Russo. *Hybrid Simulation and Test of Vessel Traffic Systems on the Cloud*, IEEE Access, Dec. 2018, vol. 6 no. 1, pp. 47273-47287. DOI: 10.1109/ACCESS.2018.2865683, ISSN: 2169-3536, IEEE.
3. M. Ficco. *Could Emerging Fraudulent Energy Consumption Attacks Make the Cloud Infrastructure Costs Unsustainable?* Information Sciences, Feb. 2019, vol. 476, pp. 474-490, DOI: 10.1016/j.ins.2018.05.029, ISSN: 0020-0255, Elsevier.
4. C. Esposito, M. Ficco, A. Castiglione, F. Palmieri, and A. De Santis. *Distributed group key management for event notification confidentiality among sensors*, IEEE Transactions on Dependable and Secure Computing, Jan. 2018, <http://ieeexplore.ieee.org/document/8274911/>, 10.1109/TDSC.2018.2799227, ISSN: 1545-5971, IEEE (available online).
5. R. Kozik, M. Choraś, M. Ficco, and F. Palmieri. *A scalable distributed machine learning approach for attack detection in edge computing environments*, Journal of Parallel and Distributed Computing, vol. 119, Sep. 2018, pp. 18-26, DOI: 10.1016/j.jpdc.2018.03.006, ISSN: 0743-7315, Elsevier.
6. C. Esposito, A. Castiglione, F. Palmieri, and M. Ficco. *Building a network embedded FEC protocol by using game theory*, Information Sciences, vol. 433-434, Apr. 2018, pp. 365-380, DOI: 10.1016/j.ins.2017.04.010, ISSN: 0020-0255, Elsevier.
7. C. Esposito, A. Castiglione, F. Palmieri, M. Ficco, C. Dobre, G. Iordache, and F. Pop. *Event-based sensor data exchange and fusion in the internet of things environments*. Journal of Parallel and Distributed Computing, vol. 118, part 2, Aug. 2018, pp. 328-343, DOI: 10.1016/j.jpdc.2017.12.010, ISSN: 0743-7315, Elsevier
8. M. Ficco, C. Esposito, F. Palmieri, and A. Castiglione. *A coral-reefs and game theory-based approach for optimizing elastic cloud resource allocation*. Future Generation Computer Systems, vol. 78, no. 1, Jan. 2018, pp. 343-352, DOI: 10.1016/j.future.2016.05.025, ISSN: 0167-739X, Elsevier
9. C. Esposito, M. Ficco, A. Castiglione, F. Palmieri, and L. Huimin. *Loss-tolerant event communications within industrial internet of things by leveraging on game theoretic Intelligence*. IEEE Internet of Things Journal, vol. 5, no. 3, Jun. 2018, pp. 1679-1689, DOI: 10.1109/JIOT.2017.2782264, ISSN: 2327-4662, IEEE.
10. M. Ficco, C. Esposito, Y. Xiang, and F. Palmieri. *Pseudo-dynamic testing of realistic edge-fog cloud ecosystems*. IEEE Communications Magazine, vol. 55, no. 11, Nov. 2017, pp. 98-104, DOI: 10.1109/MCOM.2017.1700328, ISSN: 0163-6804, IEEE
11. M. Ficco, R. Pietrantuono, and S. Russo. *Aging-related performance anomalies in the apache storm stream processing system*, Future Generation Computer Systems, vol. 86, Sep. 2018, pp. 975-994, DOI: 10.1016/j.future.2017.08.051, ISSN: 0167-739X, Elsevier
12. M. Ficco and F. Palmieri. *Introducing fraudulent energy consumption in cloud infrastructures: A new generation of denial-of-service attacks*, IEEE Systems Journal, vol. 11, no. 2, Jun. 2017, pp. 460-470, DOI: 10.1109/JSYST.2015.2414822, ISSN: 1932-8184, IEEE CPS Press.
13. C. Esposito, A. Castiglione, F. Palmieri, and M. Ficco. *Trust management for distributed heterogeneous systems by using linguistic term sets and hierarchies, aggregation, operators and mechanism design*. Future Generation Computer Systems, vol. 74, Sep. 2017, pp. 325-336, DOI: 10.1016/j.future.2015.12.004, ISSN: 0167-739X, Elsevier.

14. M. Ficco, M. Choras, and R. Kozik. *Simulation Platform for Cyber-Security and Vulnerability Analysis of Critical Infrastructures*, Journal of Computational Science, vol. 22, Sep. 2017, pp. 179-186, DOI: 10.1016/j.jocs.2017.03.025, ISSN: 1877-7503, Elsevier.
15. M. Ficco, B. Di Martino, R. Pietrantuono, and S. Russo. *Optimized task allocation on private cloud for hybrid simulation of large-scale critical systems*, Future Generation Computer Systems, vol. 74, Sep. 2017, pp. 104-118, DOI: 10.1016/j.future.2016.01.022, ISSN: 0167-739X, Elsevier.
16. C. Esposito, A. Castiglione, F. Palmieri, and M. Ficco. *Improving the gossiping effectiveness with distributed strategic learning (Invited Paper)*, Future Generation Computer Systems, vol. 71, Jun. 2017, pp. 221-233, DOI: 10.1016/j.future.2016.11.006, ISSN: 0167-739X, Elsevier.
17. F. Palmieri, M. Ficco, S. Pardi, and A. Castiglione. *A cloud-based architecture for emergency management and first responders localization in smart city environments*, Computers and Electrical Engineering, vol. 56, Nov. 2016, pp. 810-830, DOI: 10.1016/j.compeleceng.2016.02.012, ISSN: 0045-7906, Elsevier.
18. M. Ficco, C. Esposito, Henry Chang, and Kim-Kwang Raymond Choo. *Live migration in emerging cloud paradigms*, IEEE Cloud Computing, vol. 3, no. 2, March/April 2016, pp. 12-19, DOI: 10.1109/MCC.2016.48, ISSN: 2325-6095, IEEE CPS Press.
19. M. Ficco, R. Pietrantuono, and S. Russo. *Using multi-objective metaheuristics for the optimal selection of positioning systems*, Soft Computing, vol. 20, no. 7, Jul. 2016, pp. 2641-2664, DOI: 10.1007/s00500-015-1665-x, ISSN: 1432-7643, Springer.
20. M. Ficco, L. Tasquier, and R. Aversa. *Intrusion detection in federated clouds*. Int. J. Computational Science and Engineering, vol. 13, no. 3, Jun. 2016, pp. 219-232, DOI: <http://dx.doi.org/10.1504/IJCSE.2016.078929>, ISSN: 1742-7185. Inderscience Enterprises.
21. M. Ficco, G. Avolio, F. Palmieri, and A. Castiglione. *An HLA-based framework for simulation of large-scale critical systems*, Concurrency and Computation: Practice and Experience, vol. 28, no. 2, Feb. 2016, pp. 400-419, DOI: 10.1002/cpe.3472, ISSN: 1532-0634, Wiley
22. C. Esposito and M. Ficco. *Recent developments on security and reliability in large-scale data processing with MapReduce*, International Journal of Data Warehousing and Mining, vol. 12, no. 1, Jen. 2016, pp. 49-68, DOI: 10.4018/IJDWM.2016010104, ISSN: 1548-3924, IGI Global.
23. C. Esposito, M. Ficco, F. Palmieri, and A. Castiglione. *Smart cloud storage service selection based on fuzzy logic, theory of evidence and game theory*, IEEE Transactions on Computers, vol. 65, no. 8, Aug. 2016, pp. 2348-2362, DOI: 10.1109/TC.2015.2389952, ISSN: 0018-9340, IEEE CPS Press.
24. G. D'Angelo, F. Palmieri, M. Ficco, and S. Rampone. *An uncertainty-managing batch relevance-based approach to network anomaly detection*, Applied Soft Computing Journal, vol. 36, no. 17, Aug. 2015, pp. 408-418, DOI: 10.1016/j.asoc.2015.07.029, ISSN: 15684946, Elsevier
25. C. Esposito, M. Ficco, F. Palmieri, and A. Castiglione. *A knowledge-based platform for big data analytics based on publish/subscribe services and stream processing*, Journal of Knowledge-Based Systems, vol. 79, May 2015, pp. 3-17, DOI: 10.1016/j.knosys.2014.05.003, ISSN: 0950-7051, Elsevier
26. M. Ficco, F. Palmieri, and A. Castiglione. *Modeling security requirements for cloud-based system development*, Concurrency and Computation: Practice and Experience, vol. 27, no. 8, Jun. 2015, pp. 2107-2124, DOI: 10.1002/cpe.3402, ISSN: 1532-0634, Wiley.
27. F. Gargiulo, G. Gigante, and M. Ficco. *A semantic driven approach for requirements consistency verification*, Int. Journal of High Performance Computing and Networking, vol. 8, no. 3, Sept. 2015, pp. 201-211, DOI: 10.1504/IJHPCN.2015.071261, ISSN: 1740-0562, Inderscience Enterprises Ltd.
28. F. Palmieri, S. Ricciardi, U. Fiore, M. Ficco, and A. Castiglione. *Energy-oriented denial of service attacks: an emerging menace for large cloud infrastructures*, Journal of Supercomputing, vol. 71, no. 5, May 2015, pp. 1620-1641, DOI: 10.1007/s11227-014-1242-6, ISSN: 0920-8542, Springer.

29. M. Ficco and M. Rak. *Stealthy denial of service strategy in cloud computing*, IEEE Transactions on Cloud Computing, vol. 3, no. 1, Jan. 2015, pp. 80–94, DOI: 10.1109/TCC.2014.2325045, ISSN: 2168-7161, IEEE CPS Press.
30. M. Rak, M. Ficco, E. Battista, V. Casola, and N. Mazzocca. *Developing secure cloud applications*, Scalable Computing: Practice and Experience, vol. 15, no. 1, Mar. 2014, pp. 49–62, DOI: 10.12694/scpe.v15i1.965, ISSN 1895-1767, Wiley
31. M. Ficco, C. Esposito, and A. Napolitano. *Calibrating indoor positioning systems with low efforts*, IEEE Transactions on Mobile Computing, vol. 13, no. 4, Apr. 2014, pp. 737-751, DOI: 10.1109/TMC.2013.29, ISSN: 1536-1233, IEEE CPS Press.
32. M. Ficco. *Calibration-less Indoor Location Systems Based on Wireless Sensors*. Journal of Ambient Intelligence and Humanized Computing, vol. 5, no. 2, Apr. 2014, pp. 249-261, DOI: 10.1007/s12652-013-0192-9, ISSN: 1868-5137, Springer.
33. M. Ficco, P. Palmieri, and A. Castiglione. *Hybrid indoor and outdoor location services for new generation mobile terminals*. Personal and Ubiquitous Computing, vol. 18, no. 2, Feb. 2014, pp. 271-285, DOI: 10.1007/s00779-013-0644-4, ISSN: 1617-4909, Springer.
34. M. Ficco, S. Venticinque, and B. Di Martino. *An advanced intrusion detection framework for cloud computing*. Journal of Computer Systems Science and Engineering, vol. 28, no. 6, Nov. 2013, CRL Publishing Ltd.
35. C. Esposito, M. Ficco, P. Palmieri, and A. Castiglione. *Interconnecting federated clouds by using publish-subscribe service*, Cluster Computing, vol. 6, no. 4, Dec. 2013, pp. 887-903, DOI: 10.1007/s10586-013-0261-z, ISSN: 1386-7857, Springer.
36. M. Ficco. *Security event correlation approach for cloud computing*. Journal of High Performance Computing and Networking, vol. 7, no. 3, Sep. 2013, pp.173-185, DOI: 10.1504/IJHPCN.2013.056525, ISSN: 1740-0562, Inderscience Enterprises.
37. C. Esposito and M. Ficco. *Deployment of RSS-based indoor positioning systems*. Journal of Wireless Information Networks, vol. 18, no. 4, Dec. 2011, pp. 224-242, DOI: 10.1007/s10776-011-0131-7, ISSN 1068-9605, Springer.
38. R. Aversa, B. Di Martino, M. Ficco, and S. Venticinque. *A simulation model for localization of pervasive objects using heterogeneous wireless networks*. Journal of Simulation Modelling Practice and Theory, vol. 19, no. 8, Sep. 2011, pp. 1758-1772, DOI: 10.1016/j.simpat.2011.02.005, ISSN: 1569-190X, Elsevier.
39. M. Ficco, R. Pietrantuono, and S. Russo. *Bug localization in test-driven development*. Advances in Software Engineering, vol. 2011, Jun. 2011, pp. 1-18, DOI: 10.1155/2011/492757, ISSN: 0965-9978, Hindawi Publishing Corporation.
40. M. Ficco, R. Pietrantuono, and S. Russo. *Supporting ubiquitous location information in interworking 3G and wireless networks*. Communications of the ACM, vol. 53, no.11, Nov. 2010, pp. 116-123, DOI: 10.1145/1839676.1839702, ACM Press.
41. M. Ficco. *Achieving security by intrusion-tolerance based on event correlation*. Special Issue on Data Dissemination for Large scale Complex Critical Infrastructures, International Journal of Network Protocols and Algorithms (NPA), vol. 2, no. 3, Oct.2010, pp. 70-84, DOI: 10.5296/npa.v2i3.420, ISSN: 1943-358, Macrothink Institute.
42. M. Ficco and S. Russo. *A hybrid positioning system for technology-independent location-aware computing*. Software: Practice and Experience (SPE), vol. 39, Feb. 2009, pp. 1095-1125, DOI: 10.1002/spe.919, ISSN: 0038-0644, Wiley InterScience Journal.

CONFERENCE PAPER

- A1. M. Ficco, S. Venticinque, and M. Rak. *Malware Detection for Secure Microgrids: CoSSMic Case Study*. The IEEE Int. Conf. on iThings/GreenCom/CPSCom/SmartData 2017, Exeter, United Kingdom, Jun. 21-23, 2017, pp. 336-341. DOI: 10.1109/iThings-GreenCom-CPSCom-SmartData.2017.56, ISBN: 978-1-5386-3067-9, IEEE CS Press.
- A2. C. Esposito, A. Castiglione, F. Palmieri, M. Ficco, and K.K. Raymond Choo. *A Publish/Subscribe Protocol for Event-Driven Communications in the Internet of Things*. The IEEE Dependable, Autonomic and Secure Computing (DASC), Auckland, New Zealand, Aug. 8-12, 2016, pp. 376-383. DOI: 10.1109/DASC-PICom-DataCom-CyberSciTec.2016.79, ISBN: 978-1-5090-4066-7, IEEE CS Press.
- A3. C. Esposito, A. Castiglione, F. Palmieri, and M. Ficco. *Distributed Strategic Learning for Effective Gossiping in Wireless Networks*. The IEEE INFOCOM -Workshop on Mobility Management in the Networks of the Future World, San Francisco, California, USA, Apr. 2016, pp. 509-514. DOI: 10.1109/INFCOMW.2016.7562130, ISBN: 978-1-4673-9956-2, IEEE CS Press.
- A4. A. Amato, A. Aversa, M. Ficco, and S. Venticinque. *CoSSMic smart grid migration in federated clouds*. The IEEE 30th Int. Conf. on Advanced Information Networking and Applications (AINA'16), Crans-Montana, Switzerland, Mar. 27-29, 2016, pp.103-108. DOI:10.1109/WAINA.2016.39, ISBN: 9781509018574, IEEE CS Press.
- A5. R. Pietrantuono, M. Ficco, S. Russo, and G. Gigante. *Sampling UAV most informative diagnostic signals*. The 10th Int. Conf. on P2P, Parallel, Grid, Cloud and Internet Computing (3GPCIC 2015), Krakow, Poland, Nov. 2015, pp. 683-688. DOI: 10.1109/3PGCIC.2015.61, ISBN: 978-1-4673-9473-4, IEEE CS Press.
- A6. M. Ficco, F. Palmieri, and A. Castiglione. *Supporting first responders localization during crisis management*. The 9th Int. Conf. on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2015), Blumenau, Brazil, Jul. 2015, pp. 147-152. DOI: 10.1109/IMIS.2015.24, ISBN: 978-1-4799-8873-0, IEEE CS Press.
- A7. C. Esposito, M. Ficco, and F. Palmieri. *On Reliability and Security in Knowledge Grids*. The 9th Int. Conf. on P2P, Parallel, Grid, Cloud and Internet Computing (3GPCIC 2014), Guangzhou, China, Nov. 2014, pp. 20-27. DOI: 10.1109/3PGCIC.2014.131, ISBN: 978-1-4799-4171-1, IEEE CS Press.
- A8. M. Ficco, G. Avolio, L. Battaglia and V. Manetti. *Hybrid Simulation of Distributed Large-Scale Critical Infrastructures*. The Int. Conf. on Intelligent Networking and Collaborative Systems (INCoS 2014), Salerno, IT, Sep. 2014, pp. 616-621. DOI: 10.1109/INCoS.2014.35, ISBN: 978-1-4799-6387-4, IEEE CS Press.
- A9. M. Ficco, L. Tasquier, and R. Aversa. *Agent-Based Intrusion Detection for Federated Clouds*. The Int. Conf. on Intelligent Networking and Collaborative Systems (INCoS 2014), Salerno, IT, Sep. 2014, pp. 586-591. DOI: 10.1109/INCoS.2014.93, ISBN: 978-1-4799-6387-4, IEEE CS Press.
- A10. F. Palmieri, M. Ficco, and A. Castiglione. *Adaptive Stealth Energy-related DoS Attacks Against Cloud Data Centers*. The 8th Int. Conf. on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2014), Birmingham, UK, Jul. 2014, pp. 265-272, DOI: 10.1109/IMIS.2014.33, ISBN: 978-1-4799-4331-9, IEEE CS Press.
- A11. G. Zazzaro, G. Gigante, E. Zaccariello, M. Ficco, and B. Di Martino. *Supporting Development of Certified Aeronautical Components by applying Text Analysis Techniques*. The 8th Int. Conf. on Complex, Intelligent and Software Intensive Systems (CISIS 2014), Birmingham, UK, Jul. 2014, pp. 602-607, DOI: 10.1109/CISIS.2014.86, ISBN: 978-1-4799-4325-8, IEEE CS Press.

- A12. A. Venticinque, N. Mazzocca, S. Venticinque, and M. Ficco. *Semantic Support for Log Analysis of Safety-Critical Embedded Systems*. The 1st International Workshop on Real-time Big Data Analytics for Critical Infrastructure Protection (BIG4CIP 2014). Newcastle, UK, May 2014, CoRR abs/1405.2986.
- A13. E. Battista, V. Casola, N. Mazzocca, M. Ficco, and M. Rak. *Developing Secure Cloud Applications: A Case Study*. The 15th Int. Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2013), Timisoara, Romania, Sep. 2013, pp. 432-439. DOI: 10.1109/SYNASC.2013.63, ISBN: 978-1-4799-3035-7, IEEE CS Press.
- A14. M. Ficco, L. Tasquier, and R. Aversa. *Intrusion Detection in Cloud Computing*. The 8th Int. Conf. on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC 2013), Compiegne, France, Oct. 2013, pp. 276-283. DOI: 10.1109/3PGCIC.2013.47, ISBN: 978-0-7695-5094-7, IEEE CS Press.
- A15. M. Ficco and R. Aversa. *Hybrid Localization for Ubiquitous Services*. The 10th IEEE Int. Conf. on Ubiquitous Intelligence and Computing (UIC 2013), Vietri sul Mare, Italy, Dec. 2013, pp. 1-8. DOI: 10.1109/UIC-ATC.2013.17, ISBN: 978-1-4799-2481-3, IEEE CS Press.
- A16. M. Ficco and M. Rak. *Intrusion tolerance in cloud applications: The mOSAIC approach*. The 6th Int. Conf. on Complex, Intelligent, and Software Intensive Systems (CISIS 2012), Palermo, Italy, Jul. 2012, pp. 170-176. DOI: 10.1109/CISIS.2012.202, ISBN: 978-1-4673-1233-2, IEEE CS Press.
- A17. R. Aversa, B. Di Martino, M. Ficco, and S. Venticinque. *Simulation and Support of Critical Activities by Mobile Agents in Pervasive and Ubiquitous Scenarios*. The 10th IEEE Int. Symp. on Parallel and Distributed Processing with Applications (ISPA 2012), Leganes, Madrid, 10-13 Jul. 2012, pp. 815-822. DOI: 10.1109/ISPA.2012.119, ISBN: 978-1-4673-1631-6, IEEE CS Press.
- A18. M. Rak and M. Ficco. *Intrusion Tolerance as a Service: A SLA-Based Solution*. The 2nd Int. Conf. on Cloud Computing and Services Science (CLOSER 2012), Porto, Portugal, Apr. 2012, pp. 375-384. DOI: 10.5220/0003941003750384, ISBN: 978-989-8565-05-1, Science and Technology Publications
- A19. M. Ficco, M. Rak, and B. Di Martino. *An intrusion detection framework for supporting SLA assessment in cloud computing*. The 4th Int. Conf. on Computational Aspects of Social Networks (CASoN 2012), Sao Carlos, Brazil, Nov. 2012, pp. 244-249. DOI: 10.1109/CASoN.2012.6412410, ISBN: 978-1-4673-4793-8, IEEE CS Press.
- A20. M. Ficco and M. Rak. *Intrusion Tolerant Approach for Denial of Service Attacks to Web Services*. The 1st Int. Conf. on Data Compression, Communications and Processing (CCP 2011), Palinuro, Italy, Jun. 2011, pp. 285-292. DOI: 10.1109/CCP.2011.44, ISBN: 978-0-7695-4528-8, IEEE CS Press.
- A21. M. Ficco, A. Daidone, L. Coppolino, L. Romano, and A. Bondavalli. *An Event Correlation Approach for Fault Diagnosis in SCADA Infrastructures*. The 13th European Workshop on Dependable Computing (EWDC 2011), Pisa, Italy, May 2011, pp. 15-20. DOI: 10.1145/1978582.1978586, ISBN: 978-1-4503-0284-5, ACM Press.
- A22. M. Ficco and L. Romano. *A Generic Intrusion Detection and Diagnoser System Based on Complex Event Processing*. The 1st Int. Conf. on Data Compression, Communications and Processing (CCP 2011), Palinuro, Italy, Jun. 2011, pp. 275-284. DOI: 10.1109/CCP.2011.43, ISBN: 978-0-7695-4528-8, IEEE CS Press.
- A23. Di Martino, M. Ficco, R. Aversa, and S. Venticinque. *A Positioning Service for Pervasive Objects in Dynamic Environments*. The IEEE Int. Symp. on Wireless Pervasive Computing (ISWPC 2010), Modena, Italy, May 2010, pp. 244-249. DOI: 10.1109/ISWPC.2010.5483729, ISBN: 978-1-4244-6857-7, IEEE CS Press.

- A24. Di Martino, M. Ficco, R. Aversa, and S. Venticinque. *Mobile Agent-Based Provision of Context-Awareness for Positioning*. The 7th ACM Int. Conf. on Pervasive Services (ICPS 2010), Berlin, Germany, Jul. 2010, pp. 134-141. ISBN: 978-1-4503-0249-4, ACM Press.
- A25. M. Ficco, C. Esposito, and D. Cotroneo. *Calibrating RSS-based Indoor Positioning Systems*. The 5th IEEE Int. Conf. on Wireless and Mobile Computing, Networking and Communications (WiMob 2009), Marrakech, Marocco. Oct. 2009, pp. 1-6. DOI: 10.1109/WiMob.2009.11, ISBN: 978-0-7695-3841-9, IEEE CS Press.
- A26. M. Ficco, L. Coppolino, and L. Romano. *A Weight-Based Symptom Correlation Approach to SQL Injection Attacks*. The 4th Latin-American Symp. on Dependable Computing (LADC2009), Paraíba, Brazil. Sep. 2009, pp. 9-16. DOI: 10.1109/LADC.2009.14, ISBN: 978-0-7695-3760-3, ACM Press.
- A27. M. Ficco, G. D'Angelo, and M. D'Arienzo. *A Bluetooth Infrastructure for Automatic Services Access in Ubiquitous and Nomadic Computing Environments*. The 5th ACM Int. Work. on Mobility Management and Wireless Access (MobiWac2007), Chania, Crete Island, Greece. Sep. 2007, pp. 17-24. DOI: 10.1145/1298091.1298095, ISBN: 978-1-59593-809-1, ACM Press.
- A28. C. di Flora, M. Ficco, and S. Russo. *An Architecture for Providing Java Applications with Indoor and Outdoor Hybrid Location Sensing*. The IEEE Int. Work. on Future Embedded & Ubiquitous Systems (SEUS 2006), Gyeongju, Korea. Apr. 2006, pp. 37-42. DOI: 10.1109/SEUS-WCCIA.2006.11, ISBN: 0-7695-2560-1, IEEE CS Press.
- A29. C. di Flora, M. Ficco, S. Russo, and V. Vecchio. *Indoor and outdoor location based services for portable wireless devices*. The 25th IEEE Int. Conf. on Distributed Computing Systems Workshops (IWDCS 2005), Columbus, Ohio (USA). Jun. 2005, pp. 244-250. DOI: 10.1109/ICDCSW.2005.77, ISBN: 0-7695-2328-5, IEEE CS Press.
- A30. C. di Flora, D. Cotroneo, M. Ficco, and S. Russo. *A strategy for application-transparent integration of nomadic computing domains*. The IEEE Int. Work. on Software Technologies for Future Embedded and Ubiquitous Systems (SEUS 2005), Seattle, Washington (USA). May 2005, pp. 50-57. DOI: 10.1109/SEUS.2005.3, ISBN: 0-7695-2357-9, IEEE CS Press.
- A31. D. Cotroneo, M. Ficco, V. Vecchio, F. Cornevilli, and S. Russo. *Implementing positioning services over an ubiquitous infrastructure*. The IEEE Int. Work. on Software Technologies for Future Embedded and Ubiquitous Systems (WSTFEUS 2004), Vienna, Austria. May 2004, pp. 14-18. DOI: 10.1109/WSTFES.2004.1300407, ISBN: 0-7695-2123-1, IEEE CS Press.
- A32. D. Cotroneo, M. Ficco, M. Gargiulo, S. Russo, G. Ventre. *Service Differentiation of Communication-bound Processes in a real-time Operating System*. The 7th IEEE Int. Work. on Object-oriented Real-time Dependable Systems (WORDS 2002), San Diego, CA (USA). January 2002, pp. 207-214. DOI: 10.1109/WORDS.2002.1000054, ISBN: 0-7695-1576-2, IEEE CS Press.
- A33. D. Cotroneo, M. Ficco, M. Pirrò, S. Mattera, S. Russo. *Un approccio di Reverse Engineering per i sistemi di telecomunicazione*. The Work. AICA Programmazione Parallelia: Ricerca ed Applicazioni, Como, settembre 2001, pp. 1127-1136.
- A34. D. Cotroneo, M. Ficco, S.P. Romano, G. Ventre. *Bringing Service Differentiation to the End System*, The IEEE Int. Conf. on Networks' 2000 (ICON 2000), Singapore. September 2000, pp. 436-440. DOI: 10.1109/WORDS.2002.1000054, ISBN: 0769515762, IEEE CS Press.

CONFERENCE PAPER IN PROCEEDINGS OF SPRINGER LNCS

- L1. Massimo Ficco. *CIPRNet Training Lecture: Hybrid Simulation of Distributed Large-Scale Critical Infrastructures*. Image Processing and Communications Challenges, Eds. Ryszard S. Choraś. Advances in Intelligent Systems and Computing, vol. 525, Oct. 2016, pp 213-214. DOI: 10.1007/978-3-319-47274-4_25, ISBN: 978-3-319-47273-7, Springer
- L2. M. Ficco, C. Esposito, A. Castiglione, F. Palmieri and M. Ficco. *A game-theoretic approach to network embedded FEC over large-scale networks*. Computational Intelligence and Intelligent Systems. Eds. K. Li, J. Li, Y. Liu, and A. Castiglione. Communications in Computer and Information Science, vol. 575, 2016, pp. 353-364. DOI: 10.1007/978-981-10-0356-1_37, ISBN: 978-981-10-0355-4, Springer Singapore
- L3. G. Gigante, F. Gargiulo, M. Ficco, and D. Pascarella. *A Semantic Driven Approach for Consistency Verification Between Requirements and FMEA*. Intelligent Distributed Computing IX, Eds. P. Navais, D. Camacho, C. Analide, Amal El F. Seghrouchni, and C. Badica. Studies in Computational Intelligence, vol. 616, 2016, pp. 403-413. DOI: 10.1007/978-3-319-25017-5_38, ISBN: 978-3-319-25015-1, Springer
- L4. G. Gigante, F. Gargiulo, and M. Ficco. *A Semantic Driven Approach for Requirements Verification*. Intelligent Distributed Computing VIII, Eds. D. Camacho, L. Braubach, S. Venticinque and C. Badica. Studies in Computational Intelligence, vol. 570, 2015, pp. 427-436. DOI: 10.1007/978-3-319-10422-5_44, ISBN: 978-3-319-10421-8, Springer
- L5. M. Ficco, L. Tasquier, and B. Di Martino. *Interconnection of Federated Clouds*. Intelligent Distributed Computing VII, Eds. Filip Zavoral, Jason J. Jung, and Costin Badica. Studies in Computational Intelligence, vol. 511, 2014, pp. 243-248. ISBN: 978-3-319-01570-5, DOI: 10.1007/978-3-319-01571-2_29, Springer
- L6. M. Ficco and M. Rak. *SLA-Oriented Security Provisioning for Cloud Computing*, Cloud Computing and Services Science, Eds. Ivan I. Ivanov, et al., LNCS, vol. 367, 2013, pp. 230-244. DOI: 10.1007/978-3-319-04519-1_15, ISBN: 978-3-319-04518-4, Springer
- L7. M. Ficco and M. Rak. *Intrusion Tolerance of Stealth DoS Attacks to Web Services*. Information Security and Privacy, Eds. D. Gritzalis, S. Furnell, and M. Theoharidou, LNCS, vol. 376, 2012, pp. 579-584. DOI: 10.1007/978-3-642-30436-1_52, ISBN: 978-3-642-30435-4, Springer
- L8. M. Ficco, S. Venticinque, and B. Di Martino. *mOSAIC-Based Intrusion Detection Framework for Cloud Computing*. On the Move to Meaningful Internet Systems: OTM 2012, Eds. R. Meersman et al., LNCS, vol. 7566, 2012, pp. 628-644. DOI: 10.1007/978-3-642-33615-7_12, ISBN: 978-3-642-33614-0, Springer
- L9. M. Ficco and L. Romano. *A Correlation Approach to Intrusion Detection*. Mobile Lightweight Wireless Systems, Eds. P. Chatzimisios, C. Verikoukis, I. Santamaria, and M. Laddomada, vol. 45, 2010, pp. 203-215. DOI: 10.1007/978-3-642-16644-0_19, ISBN: 1867-8211, Springer LNICST
- L10. C. di Flora, M. Ficco, and S. Russo. *Supporting Location-Aware Distributed Applications on Mobile Devices*. State of the art in Scientific Computing, Eds. Jack Dongarra, Kaj Madsen, and Jerzy Wasniewski, LNCS, vol. 3732, 2006, pp. 464-471. DOI: 10.1007/11558958_55, ISBN: 978-3-540-29067-4, Springer
- L11. C. di Flora, M. Ficco, and S. Russo. *Indoor Positioning for Location-Aware Applications on Java-based Mobile Devices*. Java Technologies for Real-Time and Embedded Systems, Eds. Robert Meersman, Zahir Tari, Angelo Corsaro et al., LNCS, vol. 3292, 2004, pp. 383-393. DOI: 10.1007/978-3-540-30470-8_53, ISBN: 978-3-540-23664-1, Springer.
- L12. D. Cotroneo, M. Ficco, G. Ventre. *A Service Differentiation scheme for the end-system*, Interactive Distributed Multimedia Systems (IDMS 2001), Ed. Doug Shepherd, Joe Finney et al., LNCS, vol. 2158, 2001, pp. 99-109, DOI: 10.1007/3-540-44763-6_11, ISBN: 978-3-540-42530-4, Springer.

BOOK CHAPTERS

- C1. M. Ficco, A. Amato, and S. Venticinque. *Hosting Mission-Critical Applications on Cloud: Technical Issues and Challenges*. Network, Smart and Open, Eds. R. Lamboglia, A. Cardoni, R.P. Dameri, and D. Mancini. Chapter 12, Feb. 2018, pp. 179-191. DOI: 10.1007/978-3-319-62636-9_12, ISBN: 978-3-319-62635-2, Springer International Publishing.
- C2. M. Ficco and M. Rak. *Security SLAs for Cloud Services: Hadoop Case Study*. Reshaping Accounting and Management Control Systems, Eds. K. Corsi, N. G. Castellano, R. Lamboglia, D. Mancini, Chapter 7, vol. 20, Mar. 2017, pp. 103-114. DOI: 10.1007/978-3-319-49538-5_7, ISBN: 978-3-319-49537-8, Springer Heidelberg.
- C3. M. Ficco and M. Rak. *Economic Denial of Sustainability Mitigation in Cloud Computing*. Organizational Innovation and Change, Eds. P. Spagnoletti, M. De Marco, N. Pouloudi, D. V. Teeni, J. Brocke, R. Winter. Chapter 18, vol. 13, Oct. 2016, pp. 229-238. DOI: 10.1007/978-3-319-22921-8_18, ISBN: 978-3-319-22920-1, Springer Heidelberg.
- C4. M. Ficco, M. Rak, S. Venticinque, L. Tasquier, and G. Aversano. *Cloud evaluation: benchmarking and monitoring*. Quantitative Assessments of Distributed Systems, Eds. D. Bruneo and S. Distefano. Chapter 7, Apr. 2015, pp. 175-200. DOI: 10.1002/9781119131151.ch7, ISBN: 978-1-118-59521-3, Wiley & Sons.
- C5. B. Di Martino, M. Ficco, S. Venticinque, and M. Rak. *Addressing Open Issues on Performance Evaluation in Cloud Computing*. Large Scale Network-Centric Computing Systems, Eds. H. Sarbazi-Azad, Albert Y. Zomaya. Chapter 19, Oct. 2013, pp. 463-483. DOI: 10.1002/9781118640708.ch19, ISBN: 978-0-470-93688-7, Wiley-IEEE CS Press.
- C6. M. Rak, M. Ficco, J. Luna, H. Ghani, N. Suri, S. Panica, and D. Petcu. *Security Issues in Cloud Federations*. Achieving Federated and Self-Manageable Cloud Infrastructures: Theory and Practice, Eds. Massimo Villari, Ivona Brandic, and Francesco Tusa. Chapter 10, May 2012, pp. 176-194. DOI: 10.4018/978-1-4666-1631-8, ISBN: 9781466616318, IGI Global.

BOOK

- E1. Massimo Ficco and Francesco Palmieri. *Security and Resilience in Intelligent Data-Centric Systems and Communication Networks*, 1st Edition, Series: Intelligent Data-Centric Systems: Sensor Collected Intelligence, Sep. 2017, pp. 1-366, ISBN: 9780128113738, Elsevier Academic Press.

PROCEEDINGS

- E2. Fatos Xhafa, Fang-Yie Leu, Massimo Ficco, and Chao-Tung Yang. Advances on P2P, Parallel, Grid, Cloud and Internet Computing, The 13th Int. Conf. on P2P, Parallel, Grid, Cloud and Internet Computing (3GPCIC-18), Taichung, Taiwan, Oct. 27-29, 2018. Lecture Notes on Data Engineering and Comm. Technologies, vol. 24, ISBN: 978-3-030-02607-3, Springer Publishing.
- E3. Arcangelo Castiglione, Florin Pop, Massimo Ficco, and Francesco Palmieri. Cyberspace Safety and Security, The 10th Int. Sym. on Cyberspace Safety and Security (CSS 2018), Amalfi, Italy, Oct. 29-31, 2018, LNCS, vol. 11161, ISBN: 978-3-030-01688-3, Springer Publishing.

CURATELA

- E4. Massimo Ficco and Francesco Palmieri. *Intelligent Data-Centric Critical Systems: Security and Resilience Key Challenges*, Intelligent Data-Centric Systems, Oct. 2018, pp. 1-5, DOI: 10.1016/B978-0-12-811373-8.09990-0, ISBN: 9780128113738, Elsevier Academic Press.
- E5. M. Ficco. *Editorial: Security and Reliability of Critical Systems*, Journal of Ambient Intelligence and Humanized Computing, vol. 7, no. 2, Apr. 2016, DOI: 10.1007/s12652-016-0348-5, ISSN: 1868-5137. Springer Berlin Heidelberg.

- E6. Massimo Ficco and Francesco Palmieri. *Message from SecureSysCom 2016 International Workshop Organizers*. The 8th Int. Conf. on Intelligent Networking and Collaborative Systems (INCoS-2016), Sep. 2016, DOI: 10.1109/INCoS.2016.120. IEEE CPS.
- E7. Massimo Ficco and Salvatore D'Antonio. *2nd Workshop on Cyber Security and Resilience of Large-Scale Systems*, Intelligent Distributed Computing IX, Studies in Computational Intelligence series, vol. 616, Oct. 2015. DOI: 10.1007/978-3-319-25017-5_37, ISBN: 978-3-319-25015-1. Springer International Publishing.
- E8. Massimo Ficco and Francesco Palmieri. *Message from the SecureSysComm 2015 Workshop Chairs*, The 10th Int. Conf. on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC-15), Nov. 2015, DOI: 10.1109/3PGCIC.2015.172, ISBN-13: 978-1-4673-9473-4. IEEE CPS.
- E9. Massimo Ficco. *1st Workshop on Cyber Security and Resilience of Large-Scale Systems*, Intelligent Distributed Computing VIII, Studies in Computational Intelligence series, vol. 570, Sep. 2014. DOI: 10.1007/978-3-319-10422-5, ISBN: 978-3-319-10421-8. Springer International Publishing.