

Curriculum Vitae

1 Dati Anagrafici

Nome e Cognome: Leonardo Mostarda.

Luogo di nascita:

E-Mail:

Web Site:

Breve descrizione: Leonardo Mostarda è diventato dottore di ricerca in informatica nel 2006 presso il dipartimento di Informatica dell'Università dell'Aquila. Successivamente ha cooperato con l'European Space Agency (ESA) e altri partner nell'ambito del progetto CUSPIS FP6 al fine di realizzare protocolli di sicurezza innovativi e geo tags per l'autenticazione ed il trasporto delle opere d'arte. Nel 2007 è stato Ricercatore Associato presso il Computing Department, Distributed System and Policy Group, **Imperial College London** dove ha lavorato nell'ambito del progetto UBIVAL EPSRC. Un progetto in cooperazione con Cambridge, Oxford, Birmingham and UCL per realizzare middleware innovativi per la programmazione di wireless sensor networks. Nel 2010 Leonardo Mostarda era Senior Lecturer nella **Middlesex University** at the Distributed Systems and Networking Department. Nel 2013 è entrato a far parte della sezione di informatica presso dell'università di Camerino dove è stato coordinatore di sezione fino al 2017 ed è incardinato come professore associato. Leonardo Mostarda è anche CEO dello spinoff **BilancioCO2zero** e responsabile della sezione "IoT and Blockchain" del laboratorio regionale industria 4.0. Leonardo Mostarda è un ricercatore attivo in vari aspetti dell'IoT e della sicurezza informatica.

2 Posizione Attuale:

Professore Associato, sezione di informatica, università di Camerino.

3 Qualifiche

Abilitazione Scientifica Nazionale (ASN): abilitazione da ordinario SSD ING-INF/05 dal 11/2020

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PGCertHE, Middlesex University, 2011. **PGCertHE**, un corso di formazione per insegnare nelle università inglesi. Il corso fornisce le basi per il management e l'insegnamento a livello universitario

Ph.D. in Computer Science - 16/01/2006. Argomento: Intrusion Detection Systems. **Valutazione Finale:** ottimo (maximum score).

Laurea in Informatica (durata 5 anni) - 24/07/2002. Argomento tesi: sistemi di comunicazione Ericsson. **Valutazione Finale:** 110/110 "cum laude".

ITIS High school – 1995: Informatica ed elettronica. **Valutazione Finale: 60/60.**

4 Impieghi:

Attuali:

Professore associato (Posizione attuale) dal 2013 Sezione di informatica di Camerino, Università di Camerino, Italia

CEO bilancio CO2 zero srl start up per soluzioni di efficienza energetica innovative data d'inizio 01/06/2018 (<http://www.bilancioco2zero.com>)

Passati

Coordinatore della sezione di informatica, Università di Camerino, Italia. dal 01/01/2013 al 1/05/2017

Senior Lecturer School of science and technology, Computer Communication Engineering, Middlesex, UK. dal 03/2010 al 12/2012

Research Associate Computing Department, Distributed System and Policy Group, Imperial College London. 03/2007 – 03/2010

Postdoc, Università de L'Aquila: dal 02/2006 al 02/2007 fondi del progetto CUSPIS EU FP6.

PhD: presso l'Università degli studi de L'Aquila. Dal 11/2002 al 1/2006. Posizione finanziata dal Ministero dell'Educazione.

Junior researcher: Ericsson Research Lab, Roma. dal 01/2002 – 06/2002. Posizione finanziata dal Laboratorio di ricerca Ericsson.

5 Insegnamento

Università di Camerino:

2020/2021 Laurea: Master in Computer Science **Corso:** IT security foundation **durata:** 42 ore **linguaggio:** English

2020/2021 Laurea: Master in Computer Science **Corso:** IT security: application and technology **durata:** 42 ore **linguaggio:** English

2020/2021 Laurea: Master in Computer Science **Corso:** IoT protocols and standards **durata:** 42 ore **linguaggio:** English

2020/2021 Laurea: Master in Bioscience and technology **Corso:** Computer Science Basic concepts **durata:** 28 ore **linguaggio:** English

2019/2020 Laurea: Bachelor in Computer Science **Corso:** Operating systems **durata:** 35 ore **linguaggio:** Italian

2019/2020 Laurea: Master in Computer Science **Corso:** Distributed Systems **durata:** 7 ore **linguaggio:** English

2019/2020 Laurea: Master in Computer Science **Corso:** IT security foundation **durata:** 42 ore **linguaggio:** English

2019/2020 Laurea: Master in Computer Science **Corso:** IT security: application and technology **durata:** 42 ore **linguaggio:** English

2019/2020 Laurea: Master in Bioscience and technology **Corso:** Computer Science Basic concepts **durata:** 28 ore **linguaggio:** English

2018/2019 Laurea: Master in Computer Science **Corso:** Distributed Systems **durata:** 42 ore **linguaggio:** English

2018/2019 Laurea: Master in Bioscience and technology **Corso:** Computer Science Basic concepts **durata:** 11 ore **linguaggio:** English

2018/2019 Laurea: Bachelor in Computer Science **Corso:** Computer Architecture **durata:** 42 ore **linguaggio:** Italian

2018/2019 Laurea: Master in Computer Science **Corso:** IT security foundation **durata:** 42 ore **linguaggio:** English

2017/2018 Laurea: Master in Computer Science **Corso:** IT security **durata:** 42 ore **linguaggio:** English

2017/2018 Laurea: Master in Computer Science **Corso:** Internetworking ubiquitous systems **durata:** 42 ore **linguaggio:** English

2017/2018 Laurea: Master in Bioscience and technology **Corso:** Computer Science Basic concepts **durata:** 6 ore **linguaggio:** English

2017/2018 Laurea: Bachelor in Computer Science **Corso:** Operating systems **durata:** 67 ore **linguaggio:**

Italian

2016/2017 Laurea: Master in Bioscience and technology **Corso:** COMPUTER SCIENCES **durata:**42 ore **linguaggio:** English

2016/2017 Laurea: Bachelor in Computer Science **Corso:** DISTRIBUTED SYSTEMS **durata:**42 ore **linguaggio:** English

2016/2017 Laurea: Bachelor in Computer Science **Corso:**IT SECURITY **durata:**42 ore **linguaggio:** English

2016/2017 Laurea: Bachelor in Computer Science **Corso:** PROGRAMMAZIONE WEB **durata:**21 ore **linguaggio:** Italian

2016/2017 Laurea: Master in Computer Science **Corso:** Internetworking ubiquitous systems **durata:** 42 ore **linguaggio:** English

2016/2017 Laurea: Master in Computer Science **Corso:** Embedded Systems **durata:** 56 ore **linguaggio:** English

2015/2016 Laurea: Master in Computer Science **Corso:** INTERNETWORKING UBIQUITOUS SYSTEMS **durata:** 42 ore **linguaggio:** English

2015/2016 Laurea: Master in Computer Science **Corso:**IT SECURITY **durata:** 42 ore **linguaggio:** English

2015/2016 Laurea: Bachelor in Computer Science **Corso:** DISTRIBUTED SYSTEMS **durata:** 42 ore **linguaggio:** English

2015/2016 Laurea: Master in Bioscience and technology **Corso:** COMPUTER SCIENCES **durata:** 42 ore **linguaggio:** English

2015/2016 Laurea: Bachelor in Computer Science **Corso:** OPERATING SYSTEMS **durata:** 42 ore **linguaggio:** Italian

2014/2015 Laurea: Master in Computer Science **Corso:** DISTRIBUTED SYSTEMS **durata:** 24 ore **linguaggio:** English

2014/2015 Laurea: Master in Computer Science **Corso:**IT SECURITY **durata:** 42 ore **linguaggio:** English

2014/2015 Laurea: Master in Computer Science **Corso:** SENSOR NETWORKING **durata:** 42 ore **linguaggio:** English

2014/2015 Laurea: Master in Computer Science **Corso:** REAL TIME AND EMBEDDED SYSTEMS **durata:** 24 ore **linguaggio:** Italian

2014/2015 Laurea: Master in Mathematics **Corso:** INFORMATICA **durata:** 14 ore **linguaggio:** Italian

2014/2015 Laurea: TFA (PGCert) **Corso:** COMPUTER NETWORK **durata:** 6 ore **linguaggio:** Italian

2014/2015 Laurea: TFA (PGCert) **Corso:** COMPUTER ARCHITECTURE **durata:** 6 ore **linguaggio:** Italian

2014/2015 Laurea: TFA (PGCert) **Corso:** DBMS **durata:** 8 ore **linguaggio:** Italian

2013/2014 Laurea: Master in Computer Science **Corso:** SENSOR NETWORKING **durata:** 42 ore **linguaggio:** English

2013/2014 Laurea: Master in Mathematics **Corso:** INFORMATICA **durata:** 10 ore **linguaggio:** Italian

2013/2014 Laurea: Master in Computer Science **Corso:** DISTRIBUTED SYSTEMS **durata:** 84 ore **linguaggio:** English

2013/2014 Laurea: Master in Computer Science **Corso:** LABORATORIO DI COMUNICAZIONE VISIVA DEL PRODOTTO INDUSTRIALE **durata:** 60 ore **linguaggio:** Italian

2012/2013 Laurea: Master in Computer Science **Corso:** SERVICE-ORIENTED ARCHITECTURE **durata:** 90 ore **linguaggio:** English

2013/2014 Laurea: PAS (PGCert) **Corso:** RETI E ARCHITETTURA DEGLI ELABORATORI **durata:** 40 ore **linguaggio:** Italian

2013/2014 Laurea: PAS (PGCert) **Corso:** PROGRAMMAZIONE E GESTIONE DELLE INFORMAZIONI **durata:** 15 ore **linguaggio:** Italian

2012/2013 Laurea: Master in Computer Science **Corso:** SENSOR NETWORKING **durata:** 42 ore **linguaggio:** English

Teaching in UK at Middlesex University as Module Leader:

2012/2013 Programme: Computer Communication Engineering **Course:** "Distributed Systems" CCM3411 **language:** English

2012/2013 Programme: Computer Communication Engineering **Course:** "Network Security" CCM 4332 **language:** English

2011/2012 Programme: Computer Communication Engineering **Course:** "Distribute Systems" CCM3411 **language:** English

2011/2012 Programme: Computer Communication Engineering **Course:** "Network Security" CCM 4332 **language:** English

2010/2011 Programme: Computer Communication Engineering **Course:** " Computer Networks, Wireless and Mobile Communication Systems " CCM4300 **language:** English

2010/2011 Programme: Computer Communication Engineering **Course:** "Network Security" CCM 4332 **language:** English

2010/2011 Programme: Computer Communication Engineering **Course:** " Data Networks and Internet Communications " CCM4810 **language:** English

Teaching in UK at Imperial College London:

2007/2008 tutorial helper for Distributed Systems, Computer Network and security

2008/2009 tutorial helper for Distributed Systems, Computer Network and security

2010/2011 tutorial helper for Distributed Systems, Computer Network and security

5 Ricerca

5.1 Grants:

INDUSTRY 4.0 [2018-2025] This project (Nationally funded by POR MARCHE FESR) includes 23 entities (3 research centers and 20 companies) and has a total budget of **5.1 million**. The project aims at introducing industry 4.0 inside Marche region companies and at conceiving an innovative lab for knowledge transfer. INDUSTRY 4.0 project is composed of 2 research projects (i.e., MERCURY and HURRA), a research lab and a knowledge transfer project (KTP). My research group had a grant share of 528598.87 euro for the following activities:

- MERCURY: we are conceiving, designing and implementing novel IoT hardware and an innovative off-chain solution (i.e., a second layer blockchain solution) that allow the implementation of scalable IoT smart contracts. Our second layer solution reduces blockchain fees and improves the transaction per second (TPS) speed when compared to first layer blockchain approaches.
- HURRA: we are conceiving a synergic collaboration between workers and robots. We perform operator's physical monitoring in order to reduce the risk of musculoskeletal disorders. We are implementing a system to avoid uncomfortable and unsafe postures based on workers' anthropometric characteristics, posture monitoring by inertial and visual systems, task requirements, and a real-time risk assessment by standard methodology. We optimise the robot behaviour in order to improve worker's well-being.
- ILAB: We are organising a MARCHE regional lab that is composed of 5 areas. I am responsible of the IoT & Data Analytics area. This includes a 320.000 euro a high-performance computer that, together with other distributed nodes, runs a regional blockchain. This runs our novel off-chain solutions which are currently used by several IoT companies.
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Role: Scientific coordinator and responsible for the IoT lab.

4Helix+ [02/02/2018 - 31/10/2020] EU project. The project funded under the Interreg MED Programme aims at stimulating, coaching and funding innovation within the Blue Growth sector in the Mediterranean (MED) area. It is intended to improve the gap between the 8 Mediterranean regional maritime clusters and within their four helixes through an open source, knowledge sharing, and community-based approach, resulting from cooperation with *new innovation agents* and *cultural and creative industries*. The 4helix+ project will upgrade transnational innovation process in traditional and emerging Blue sectors in 8 MED regions by establishing and organizing a cyberspace, bootcamps, transnational brokerage event, regional info days and an innovation voucher scheme. The Project's cyberspace will enable a matchmaking environment between the Blue SMEs/START-UPS, and new innovation agents (fab labs, co-working spaces, creative hubs, etc.), and cultural and creative industries (high-skilled companies, RDI entres, etc.). The 4helix+ has awarded EUR 480.000 to at least 48 blue projects under its Innovation Voucher Scheme. With its transnational partnership network and

objectives, the project contributes to relevant EU macro-regional strategies and innovation policies. The project has a total budget of €2,193,984. A total of 139599.50 euro was awarded to my research group for building the cyberspace (see <https://4helix.unicam.it>).

Role: Scientific coordinator

[Blue Boost \[02/01/2018 to 31/01/2021\]](#) is an EU project co-financed by the Interreg ADRION Programme. It aims at enhancing the innovation potential of traditional and emerging Blue Growth sectors in the Adriatic-Ionian region. The project focuses on transnational and cross-sectoral cooperation and innovation of maritime clusters through knowledge sharing and a community-based approach among 7 coastal regions in Albania, Croatia, Greece and Italy. It addresses Micro and Small Medium-sized Enterprises (MSMEs) through a set of combined actions aimed at facilitating encounters between them and research & innovation agents. This will be pursued by developing a coaching path tailored to the innovation needs of MSMEs, as well as by implementing an innovation voucher scheme and promoting transnational networking. The project has a total budget of € 1,489,421.96. A total of 292,000.00 euro was awarded to our research group.

Role: UNICAM was the project coordinator.

[IOT - INTELLIGENT ONCOLOGY TELECARE](#) This project (Nationally funded by POR MARCHE FESR 2014-2020 -Asse 1 – Os 3 – Azione 3.1) is a regional project made in collaboration with 10 companies, two departments of research of the “Università Politecnica delle Marche”, one department of the "Università degli Studi di Camerino" and "Asur Marche". The project started in October 2017 and will last three years. The IOT project develops an integrated system for managing oncology patients through innovative telecare devices that over and above current telemedicine standards, proposes a new and efficient home-based management system for the oncologist and the use of advanced data analysis systems. This project wishes to be an innovative service solution and model for improving the quality of care services. The IOT project targets the development of a new medical device, to detect the endothelial dysfunction, in particular in the cancer patients that follow a chemotherapeutic therapy. Nowadays, the endothelial dysfunction is evaluated by a Doppler ultrasound exam, that is a non-invasive measure, but is highly operator-dependent. On the other hand, the new device, intended to give a non-invasive, operator-independent measurement, which can be obtained through a simple and automatic procedure which can be used by unqualified personnel. The project will create a small and highly usable device for measuring endothelial dysfunction at home. At the end of the project, the device will be ready to be placed on the market of diagnostic biomedical devices. **Role:** Research consultancy.

[Homeland security](#) This is an ongoing project in cooperation with [University of L'Aquila](#) and [Thales](#). This project (Nationally funded by MIUR, L297, art. 10) focuses on how the technologies of heterogeneous and cooperative wireless networks can provide a significant contribution in monitoring and control of land and/or sensitive perimeters. **Role:** Subcontractor

[Shell project](#) This is a project in cooperation with [e-elios](#) and various companies. This project (Nationally funded by Region Marche) focuses on new technologies for building home automation solutions for elderly. **Role:**

Subcontractor

UBIVAL project This project included several uk partners such as Oxford, Imperial College, UCL, University of Birmingham, British Telecom and HP Labs. This is an EPRC project funded by the UK government. The Ubival project aims to define and implement a suite of sound, systematic methods that software engineers can use to create correctly functioning, efficient and secure mobile and ubiquitous applications. My task was to implement novel middleware for programming body sensor networks. **Role:** Named researcher

CUSPIS FP6 project This project included several partners such as University of L'Aquila, Vodafone Greece, University of Sapienza Rome, Ministry of Cultural Heritage Italy, Ministry of Cultural Heritage Greece/a> and Next S.p.A.. The CUSPIS project deployed operative solutions for the transportation and fruition of secure assets in open archaeological areas using EGNOS and Galileo. CUSPIS is unique within the cultural heritage user community in merging GNSS aspects, authentication capabilities and “infomobility” services in a single solution. In the context of the CUSPIS project I created novel security protocols in order to authenticate works of art. **Role:** Named researcher

PASS project This project is a project funded by the Marche region. The project aims to promote active longevity of the elderly in their own home, a place where they can continue to carry out usual activities, with the benefit of innovative services based on technological features user-friendly. Pass, launched in February 2013, has a term of 24 months and intends to contribute to the spread of a new culture of the concept of smart home by placing the user at the center of the house of technological solutions developed. **Role:** Named researcher

5.2 Supervisione di dottorato

Name: Emanuele Scala,

- **Research topic**, Blockchain
- **University**, UNICAM
- **Start date** 1-Nov-2020, **End-date:**
- **Role: Supervisor**

Name: Matteo Paccamiccio,

- **Research topic**, Security
- **University**, UNICAM
- **Start date** 1-Nov-2020, **End-date:**
- **Role: Supervisor**

Name: Davide Sestili,

- **Research topic**, Blockchain
- **University**, UNICAM
- **Start date** 1-Nov-2019, **End-date:**
- **Role: Supervisor**

Name: Marco Marcozzi,

- **Research topic**, Blockchain
- **University**, UNICAM
- **Start date** 1-Nov-2019, **End-date:**
- **Role: Supervisor**

Name: Kemal Kemal,

- **Research topic**, 5G
- **University**, UNICAM
- **Start date** 1-Nov-2018, **End-date:**
- **Role: Supervisor**

Name: Giacomo Nalli,

- **Research topic**, Machine learning applied to ONLINE teaching
- **University**, UNICAM
- **Start date** 1-Nov-2018, **End-date:**
- **Role: Supervisor**

Name: Fabio Pagnotta,

- **Research topic**, Middleware for Edge computing
- **University**, UNICAM
- **Start date** 1-Nov-2016, **End-date:** 1 Dec 2020
- **Role: Supervisor**

Name: Gian Marco Mazzante,

- **Research topic**, Blockchain
- **University**, UNICAM
- **Start date** 1-Nov-2016, **End-date:**
- **Role: Supervisor**

Name: Andrea Piermarteri,

- **Research topic**, Middleware for IoT
- **University**, UNICAM
- **Start date** 1-Nov-2015, **End-date: 1 June 2019**
- **Role: Supervisor**

Name: Matteo Micheletti,

- **Research topic**, Routing for WSN
- **University**, UNICAM
- **Start date** 1-Nov-2015, **End-date: 1 June 2019**
- **Role: Supervisor**

Name: Nadeem Qaisar,

- **Research topic**, Big data and WSNs
- **University**, Camerino University
- **Start date** 1-May-2014 , **End-date:** August 2018
- **Role: Supervisor**

Name: Zaib Ullah,

- **Research topic**, Wireless Sensor Networks
- **University**, Camerino University
- **Start date** 1-May-2014 , **End-date:** August 2018
- **Role: Supervisor**

Name: Claudia Vannucchi,

- **Research topic**, Formal Verification of Smart Environments
- **University**, Camerino University
- **Start date** 1-May-2014 , **End-date:** August 2018
- **Role: Supervisor**

Name: Krishna Doddapaneni,

- **Research topic**, Wireless Sensor Networks
- **University**, Middlesex University
- **Start date** 1-Jan-2011 , **End-date:** September 2014
- **Role: part of the supervision team**

5.2 Pubblicazioni

Journal

[47] Premkumar Chithaluru Fadi Al-Turjman Thompson Stephan Manoj Kumar Leonardo Mostarda Energy-efficient blockchain implementation for Cognitive Wireless Communication Networks(CWCNs) Energy report **SJR RANKING Q1**

[46] SP Yadav, KK Agrawal, BS Bhati, F Al-Turjman, L Mostarda. Blockchain-Based Cryptocurrency Regulation: An Overview. Computational Economics, 1-17, 2021. **SJR RANKING Q1**

[45] Kilic K.I., Gemikonakli O., Mostarda L. Voronoi Tessellation-based load-balanced multi-objective priority-based heuristic optimisation for multi-cell region coverage with UAVs 2021. International Journal of Web and Grid Services. **SJR RANKING Q1**

[44] F Ullah, S Jabbar, L Mostarda. An intelligent decision support system for software plagiarism detection in academia. International Journal of Intelligent Systems, 2021. **SJR RANKING Q1**

[43] F Ullah, MR Naeem, L Mostarda, SA Shah. Clone detection in 5G-enabled social IoT system using graph semantics and deep learning model. International Journal of Machine Learning and Cybernetics, 1-13, 2021 **SJR RANKING Q1**

[42] L Mostarda, A Navarra, F Nobili. Fast File Transfers from IoT Devices by Using Multiple Interfaces. Sensors 21 (1), 36, 2021 **SJR RANKING Q1**

[41] BD Deebak, F Al-Turjman, L Mostarda, Seamless secure anonymous authentication for cloud-based mobile edge computing. Computers & Electrical Engineering 87, 106782, 2021 **SJR RANKING Q1**

[40] S Banyal, R Dwivedi, KD Gupta, DK Sharma, F Al-Turjman, L Mostarda. Technology Landscape for Epidemiological Prediction and Diagnosis of COVID-19. CMC-COMPUTERS MATERIALS & CONTINUA 67 (2), 1679-1696, 2021 **SJR RANKING Q1**

[39] Saleem H., Riaz F., Mostarda L., Niazi M.A., Rafiq A., Saeed S. Steering Angle Prediction Techniques for Autonomous Ground Vehicles: A Review 2021 IEEE Access **SJR RANKING Q1**

[38] Pitchai M.P., Ramachandran M., Al-Turjman F., Mostarda L. Intelligent framework for secure transportation systems using software-defined-internet of vehicles 2021 Computers, Materials and Continua. **SJR RANKING Q1**

[37] Nalli G., Amendola D., Perali A., Mostarda L. Comparative analysis of clustering algorithms and moodle plugin for creation of student heterogeneous groups in online university courses 2021 Applied Sciences (Switzerland) **SJR RANKING Q2**

[36] C Rupa, R Patan, F Al-Turjman, L Mostarda. Enhancing the access privacy of IDaaS system using SAML protocol in fog computing. IEEE Access 8, 168793-168801, 2020 **SJR RANKING Q1**

[35] Z Ullah, F Al-Turjman, U Moatasim, L Mostarda, R Gagliardi. UAVs joint optimization problems and machine learning to improve the 5G and Beyond communication. Computer Networks, 107478, 2020 **SJR RANKING Q1**

[34] Ramesh Sekaran, Rizwan Patan, Arunprasath Raveendran, Fadi Al-Turjman, Manikandan Ramachandran, Leonardo Mostarda. Survival Study on Blockchain Based 6G-Enabled Mobile Edge Computation for IoT Automation. IEEE Access 8, 143453-143463, 2020 **SJR RANKING Q1**

[33] Stefano Bistarelli, Gianmarco Mazzante, Matteo Micheletti, Leonardo Mostarda, Davide Sestili and Francesco Tiezzi. Ethereum Smart Contracts: Analysis and Statistics of their Source Code and Opcodes. Elsevier Internet of Things, 2020

[32] A Bhardwaj, F Al-Turjman, M Kumar, T Stephan, L Mostarda. Capturing-the-Invisible (CTI): Behavior-Based Attacks Recognition in IoT-Oriented Industrial Control Systems IEEE Access 8, 104956-104966 2020 **SJR RANKING Q1**

- [31] S Singh, S Kumar, A Nayyar, F Al-Turjman, L Mostarda. Proficient QoS-Based Target Coverage Problem in Wireless Sensor Networks IEEE Access 8, 74315-74325 2020 **SJR RANKING Q1**
- [30] UAVs Healthcare Applications, Communication Protocols, Deployment Strategies, and Security Challenges Z Ullah, F Al-Turjman, L Mostarda. Unmanned Aerial Vehicles in Smart Cities, 27-37
- [29] Ullah, Z., Al-Turjman, F., Mostarda, L., Gagliardi, R. Applications of Artificial Intelligence and Machine learning in smart cities. Elsevier Computer Communications, 2020 **SJR RANKING Q1**
- [28] Zaib Ullah, Fadi Al-Turjman, and Leonardo Mostarda. Cognition in UAV-Aided 5G and Beyond Communications: A Survey. IEEE Transactions on Cognitive Communications and Networking. 2020 **SJR RANKING Q1**
- [27] Diletta Cacciagrano, Flavio Corradini, Matteo Micheletti, Leonardo Mostarda. REECHD: Energy Efficient Clustering for Heterogeneous Devices. International Journal of Grid and Utility Computing. 2020 **SJR RANKING Q2**
- [26] F Al-Turjman, M Abujubbeh, A Malekloo, L Mostarda. UAVs assessment in software-defined IoT networks: An overview. Elsevier Computer Communications, 2020 **SJR RANKING Q1**
- [25] G Nalli, L Mostarda, A Perali, S Pilati, D Amendola Applicazione del machine learning ai learning analytics della piattaforma Moodle per creare gruppi eterogenei nei corsi on-line. ITALIAN JOURNAL OF EDUCATIONAL RESEARCH, 156-173 2019
- [24] F Al-Turjman, BD Deebak, L Mostarda. Energy Aware Resource Allocation in Multi-Hop Multimedia Routing via the Smart Edge Device IEEE Access 7, 151203-151214 2019 **SJR RANKING Q1**
- [23] Rajkumar Kulandaivel, Monica Balasubramaniam, Fadi Al-Turjman, Leonardo Mostarda, Manikandan Ramachandran, Rizwan Patan. Intelligent Data Delivery Approach for Smart Cities Using Road Side Units IEEE Access 7, 139462-139474 2019 **SJR RANKING Q1**
- [22] S Jacob, VG Menon, F Al-Turjman, PG Vinoj, L Mostarda. Artificial Muscle Intelligence System With Deep Learning for Post-Stroke Assistance and Rehabilitation. IEEE Access 7, 133463-133473 2019 **SJR RANKING Q1**
- [21] M Micheletti, L Mostarda, A Navarra CER-CH: combining election and routing amongst cluster heads in heterogeneous WSNS. IEEE Access 7, 125481-125493 2019 **SJR RANKING Q1**
- [20] F Ullah, H Naeem, S Jabbar, S Khalid, MA Latif, F Al-Turjman, L Mostarda. Cyber security threats detection in Internet of Things using deep learning approach. IEEE Access 7, 124379-124389 2019 **SJR RANKING Q1**
- [19] F Al-Turjman, H Zahmatkesh, L Mostarda. Quantifying uncertainty in internet of medical things and big-data services using intelligence and deep learning IEEE Access 7, 115749-115759 2019 **SJR RANKING Q1**
- [18] F Al-Turjman, JP Lemayian, S Alturjman, L Mostarda. Optimal Placement for 5G Drone-BS Using SA and GA. Drones in IoT-enabled Spaces, 43-58 2019
- [17] F Al-Turjman, JP Lemayian, S Alturjman, L Mostarda. Enhanced Deployment Strategy for the 5G Drone-BS Using Artificial Intelligence. IEEE Access 7, 75999-76008 2019 **SJR RANKING Q1**
- [16] F Al-Turjman, L Mostarda, E Ever, A Darwish, NS Khalil. Network experience scheduling and routing approach for big data transmission in the Internet of Things. IEEE Access 7, 14501-14512 2019 **SJR RANKING Q1**
- [15] A Aloisio, A Navarra, L Mostarda. Energy consumption balancing in multi-interface networks Journal of Ambient Intelligence and Humanized Computing, 2019 **SJR RANKING Q1**
- [14] F Al-Turjman, L Mostarda. A hash-based RFID authentication mechanism for context-aware management in IoT-based multimedia systems. Sensors 19 (18), 3821 2019 **SJR RANKING Q1**

- [13] E Ever, P Shah, L Mostarda, F Omondi, O Gemikonakli. On the performance, availability and energy consumption modelling of clustered IoT systems. Computing, 1-36 2019 **SJR RANKING Q2**
- [12] Ivano Malavolta, Leonardo Mostarda, Henry Muccini, Enver Ever, Krishna Doddapaneni and Orhan Gemikonakli A4WSN: an architecture-driven modelling platform for analysing and developing WSNs. Journal of Software & Systems Modeling, 2018 **SJR RANKING Q2**
- [11] Diletta Romana Cacciagrano, Flavio Corradini, Rosario Culmone, Nikos Gorogiannis, Leonardo Mostarda, Franco Raimondi, and Claudia Vannucchi. Analysis and verification of ECA rules in Intelligent Environments.. Journal of Ambient Intelligence and Smart Environments, 2018 **SJR RANKING Q2**
- [10] Claudia Vannucchi, Michelangelo Diamanti, Gianmarco Mazzante, Diletta Cacciagrano, Rosario Culmone, Nikos Gorogiannis, Leonardo Mostarda, Franco Raimondi. Symbolic verification of event– condition–action rules in intelligent environments.. Journal of Reliable Intelligent Environment, Feb. 2017 **SJR RANKING Q2**
- [9] KNadeem Qaisar Mehmood, Rosario Culmone, Leonardo Mostarda Modeling temporal aspects of sensor data for MongoDB NoSQL database. Journal of Big Data, Springer December 2017, **SJR RANKING Q1**
- [8] Krishna Doddapaneni · Ali Tasiran · Fredrick A Omondi · Enver Ever · Purav Shah · Leonardo Mostarda · Orhan Gemikonakli. Does the Assumption of Exponential Arrival Distributions in Wireless Sensor Networks Hold? . International Journal of Sensor Networks, 2016 **SJR RANKING Q2**
- [7] Nadeem Qaisar Mehmood, Rosario Culmone, Leonardo Mostarda. A flexible and scalable architecture for real-time ANT+ sensor data acquisition and nosql storage . International Journal of Distributed Sensor Networks, 2016. **SJR RANKING Q2**
- [6] Yoney Kirsal-Ever, Agozie Eneh, Orhan Gemikonakli, Leonardo Mostarda. Analysing the Combined Kerberos Timed Authentication Protocol and Frequent Key Renewal Using CSP and Rank Functions. . TIIS 8(12): 4604-4623 (2014)
- [5] Giovanni Russello, Leonardo Mostarda and Naranker Dulay. A policy-based publish/subscribe middleware for sense-and-react applications. . Elsevier, Journal of System and software Volume 84 Issue 4, April, 2011. **SJR RANKING Q1**
- [4] Leonardo Mostarda and Changuy Dong and Naranker Dulay. Context-based Authentication and Transport of Cultural Assets . Personal and Ubiquitous Computing, Springer, Volume 14, Number 4, 321-334, DOI: 10.1007/s00779-009-0233-8. **SJR RANKING Q2**
- [3] Leonardo Mostarda and Alfredo Navarra. Distributed Intrusion Detection Systems for enhancing Security in Mobile Wireless Sensor Networks.. International Journal of Distributed Sensor Networks (IJDSN), Special Issue on "Advances in Heterogeneous Wireless Sensor Networks", devoted to the 20th IEEE International Conference on Advanced Information Networking and Applications (AINA 2006). (2008) **SJR RANKING Q2**
- [2] M. Autili, L. Mostarda, A. Navarra and M. Tivoli. Synthesis of decentralized and concurrent adaptors for correctly assembling distributed component-based systems. Journal of Systems and Software (JSS). Volume: 81. Issue: 12. Pages: 2237-2251. (2008). DOI: <http://dx.doi.org/10.1016/j.jss.2008.04.006> **SJR RANKING Q1**
- [1] Stefania Costantini, Leonardo Mostarda, Arianna Tocchio and Panagiota Tsintza. DALICA Agents applied to a Cultural Heritage scenario. IEEE Intelligent System Magazine (2008) **SJR RANKING Q1**

Book chapter

- [2] Diletta Cacciagrano, Rosario Culmone, Matteo Micheletti and Leonardo Mostarda. Energy Efficient Clustering for Wireless Sensor Devices in Internet of Things. Book chapter: Performability in Internet of Things, Springer. 2019
- [1] Leonardo Mostarda and Paola Inverardi. A Distributed Monitoring System For Enhancing Dependability and Security At Architectural Level. Book chapter: Architecting Dependable Systems IV, LNCS 4615 proceedings. (2007)

Conferences

- [50] Diletta Cacciagrano, Flavio Corradini, Gianmarco Mazzante, Leonardo Mostarda, and Davide Sestili. Off-chain Execution of IoT Smart Contracts. The 35th International Conference on Advanced Information Networking and Applications, 2021
- [49] Nicholas Formica, Leonardo Mostarda and Alfredo Navarra. UAVs Route Planning in Sea Emergencies The 35th International Conference on Advanced Information Networking and Applications, 2021
- [48] Kemal Ihsan Kilic, Leonardo Mostarda. Optimum Path Finding Framework For Drone Assisted Boat Rescue Missions. The 35th International Conference on Advanced Information Networking and Applications, 2021
- [47] R Culmone, D Cacciagrano, F Al-Turjman, L Mostarda. Share: A Design Pattern for Dynamic Composition of IoT Services, Forthcoming Networks and Sustainability in the IoT Era: First EAI International Conference, FoNeS-IoT 2020, Virtual Event, October 1-2, 2020,
- [46] S Ahmad, KNRSV Prasad, Z Ullah, L Mostarda, F Al-Turjman. Classification of IoT Device Communication Through Machine Learning Techniques, Forthcoming Networks and Sustainability in the IoT Era: First EAI International Conference, FoNeS-IoT 2020, Virtual Event, October 1-2, 2020,
- [45] F Al-Turjman, D Cacciagrano, L Mostarda, M Paccamiccio, Z Ullah. Light Communication for Controlling Industrial Robots, Forthcoming Networks and Sustainability in the IoT Era: First EAI International Conference, FoNeS-IoT 2020, Virtual Event, October 1-2, 2020,
- [44] U Khadam, MM Iqbal, L Mostarda, F Ullah. An Efficient Framework for Text Document Security and Privacy. International Symposium on Security and Privacy in Social Networks and Big Data, 2020
- [43] Kemal Ihsan Kilic, Orhan Gemikonakli, Leonardo Mostarda. Multi-objective Priority Based Heuristic Optimization for Region Coverage with UAVs The 34th International Conference on Advanced Information Networking and Applications (AINA-2020) University of Campania "Luigi Vanvitelli", Caserta, Italy April 15 - 17, 2020
- [42] Renato De Leone and Leonardo Mostarda. Optimal Cluster Head Rotation fo Heterogeneous WSNs The 34th International Conference on Advanced Information Networking and Applications (AINA-2020) University of Campania "Luigi Vanvitelli", Caserta, Italy April 15 - 17, 2020
- [41] Stefano Bistarelli, Gianmarco Mazzante, Matteo Micheletti, Leonardo Mostarda, and Francesco Tiezzi Analysis of Ethereum Smart Contracts and Opcodes The 33rd International Conference on Advanced Information Networking and Applications (AINA-2019) Kunibiki Messe, Matsue, Japan March 27 to March 29, 2019
- [40] Alessandro Aloisio, Alfredo Navarra, Leonardo Mostarda Distributing Energy Consumption in Multi-Interface Series-Parallel Networks The 33rd International Conference on Advanced Information Networking and Applications (AINA-2019) Kunibiki Messe, Matsue, Japan March 27 to March 29, 2019
- [39] Ramon Carreras Ramirez, Quoc-Tuan Vien, Ramona Trestian, Leonardo Mostarda, and Purav Shah Multi-path Routing for Mission Critical Applications in Software-Defined Networks. INISCOM 2018 - 4th EAI International Conference on Industrial Networks and Intelligent Systems August 27-28, 2018 Da Nang, Vietnam
- [38] Naranker Dulay, Matteo Micheletti, Leonardo Mostarda and Andrea Piermarteri. PICO-MP: De-Centralised Macro-Programming for Wireless Sensor and Actuator Networks. The 32nd IEEE International Conference on Advanced Information Networking and Applications (IEEE AINA-2018) Pedagogical University of Cracow, Poland, May 16-18, 2018
- [37] Matteo Micheletti, Leonardo Mostarda and Andrea Piermarteri. Rotating Energy Efficient Clustering for Heterogeneous Devices (REECHD). The 32nd IEEE International Conference on Advanced Information

Networking and Applications (IEEE AINA-2018) Pedagogical University of Cracow, Poland, May 16-18, 2018

[36] Claudia Vannucchi, Michelangelo Diamanti, Gianmarco Mazzante, Diletta Romana Cacciagrano, Flavio Corradini, Rosario Culmone, Nikos Gorogiannis, Leonardo Mostarda and Franco Raimondi vIRONy: a tool for analysis and verification of ECA rules in Intelligent Environments Intelligent Environments 2017

[35] Claudia Vannucchi, Diletta Romana Cacciagrano, Flavio Corradini, Rosario Culmone, Leonardo Mostarda, Franco Raimondi, Luca Tesi: A Formal Model for Event-Condition-Action Rules in Intelligent Environments. Intelligent Environments (Workshops) 2016: 56-65

[34] Zaib Ullah, Leonardo Mostarda, Roberto Gagliardi, Diletta Cacciagrano, Flavio Corradini: A comparison of HEED based clustering algorithms - introducing ER-HEED. AINA 2016

[33] Alfredo Navarra, Pietro Palazzo, Cristina M. Pinotti, Leonardo Mostarda: Algorithms for Services with Multiple Levels of Quality. EEEWSN 2016

[32] Diletta Romana Cacciagrano, Rosario Culmone, Leonardo Mostarda, Claudia Vannucchi: Towards a uniform ontology-driven approach for modeling, checking and executing WSNs. EEEWSN 2016

[31] Yonal Kirsal, Yoney Kirsal-Ever, Leonardo Mostarda, Orhan Gemikonakli: Analytical Modelling and Performability Analysis for Cloud Computing Using Queuing System. UCC 2015: 643-647

[30] N Alechina, B Logan, HN Nguyen, F Raimondi, L Mostarda. Symbolic Model-checking for Resource-Bounded ATL. International conference on Autonomous Agents and Multi-Agent Systems, AAMAS '15, 2015

[29] Krishna Doddapaneni, Purav Shah, Enver Ever, Ali Tasiran, Fredrick A. Omondi, Leonardo Mostarda and Orhan Gemikonakli. Packet Arrival Analysis in Wireless Sensor Networks. 29th IEEE International Conference on Advanced Information Networking and Applications Workshops, AINA 2015

[28] Rosario Culmone, Leonardo Mostarda, Franco Raimondi and Luca Tesi. A Constrained ECA Language Supporting Formal Verification of WSNs. 29th IEEE International Conference on Advanced Information Networking and Applications Workshops, AINA 2015

[27] Nueraili Aierken, Roberto Gagliardi, Leonardo Mostarda and Zaib Ullah. RUHEED-Rotated Unequal Clustering Algorithm For Wireless Sensor Networks. 29th IEEE International Conference on Advanced Information Networking and Applications Workshops, AINA 2015

[26] Fredrick A. Omondi, Enver Ever, Purav Shah, Orhan Gemikonakli, Leonardo Mostarda. Performability Modelling and Analysis of Clustered Wireless Sensor Networks with Limited Storage Capacities. Internet and Distributed Computing Systems - 7th International Conference, IDCS 2014, 2014.

[24] Nadeem Qaisar Mehmood, Rosario Culmone, Leonardo Mostarda. An Ontology Driven Software Framework for the Healthcare Applications Based on ANT+ Protocol. 28th IEEE International Conference on Advanced Information Networking and Applications Workshops, AINA 2014

[23] Yoney Kirsal-Ever, Yonal Kirsal, Alberto Polzonetti, Leonardo Mostarda and Enver Ever. Challenges of Kerberos Variance in High QoS Expectations. The 2013 International Conference on Security and Management (SAM'13) Las Vegas, USA, July 22 - 25.

[22] Antinisca Di Marco, Francesco Gallo, Orhan Gemikonakli, Leonardo Mostarda and Franco Raimondi. Implementing Adaptation and Reconfiguration Strategies in Heterogeneous WSN. In proceeding of The 27th IEEE International Conference on Advanced Information Networking and Applications (AINA-2013).

[21] Yoney Kirsal-Ever, Agozie Eneh, Orhan Gemikonakli and Leonardo Mostarda. Modelling Attacker with Deciding Security Properties by Induction and Deduction. In proceeding of The 27th IEEE International Conference on Advanced Information Networking and Applications (AINA-2013)

[20] Krishna Doddapaneni, E. Ever, Orhan Gemikonakli, L. Mostarda and A. Navarra. Effects of IDSs on the WSNs Lifetime: evidence for the need of new approaches. In proceeding of Third International Symposium on Mobile and Wireless Network Security (MWNS-12). In conjunction with 11th IEEE International Conference on

Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-12). Liverpool, UK, 25-27 June, 2012.

[19] Krishna Doddapaneni, E.Ever, Orhan Gemikonakli, Ivano Malavolta, L. Mostarda and Henry Muccini A Model-Driven Engineering Framework for Architecting and Analysing Wireless Sensor Networks. In proceeding of Software Engineering for Sensor Network Applications (SESENA 2012) In conjunction with ACM/IEEE Intl. Conference on Software Engineering (ICSE) June 2-9, 2012, Zurich, Switzerland.

[18] E.Ever and R. Luchmun and L. Mostarda and A. Navarra and P. Shah. UHEED - An Unequal Clustering Algorithm for Wireless Sensor Networks. In proceeding of 1th International Conference on Sensor Networks (SENSORNET 2012).

[17] Krishna Doddapaneni and Enver Ever and Orhan Gemikonakli and Ivano Malavolta and Leonardo Mostarda and Henry Muccini. Path Loss Effect on Energy Consumption in a WSN. In proceeding of 14th International Conference on Modeling and Simulation (UKSim 2012).

[16] Vittorio Cortellessa and Catia Trubiani and Leonardo Mostarda and Naranker Dulay. An Architectural Framework for Analyzing Tradeoffs between Software Security and Performance. In proceeding of 1st International Symposium on Architecting Critical Systems Federated with CompArch 2010.

[15] Leonardo Mostarda and Rudi Ball and Naranker Dulay. Distributed Fault Tolerant Controllers. In proceeding of 10th IFIP international conference on Distributed Applications and Interoperable Systems (DAIS), 2010.

[14] Leonardo Mostarda and Daniel Sykes and Naranker Dulay. A State Machine-Based Approach For Reliable Adaptive Distributed Systems. In proceeding of 7th IEEE International Conference and Workshops on Engineering of Autonomic and Autonomous Systems, 2010.

[13] Leonardo Mostarda and Srdjan Marinovic and Naranker Dulay. Distributed Orchestration of Pervasive Services. In proceeding of AINA IEEE 2010 Conference (AINA 2010).

[12] Dimosthenis Pediaditakis, Leonardo Mostarda, Changyu Dong, and Naranker Dulay. Policies for Self Tuning Home Networks. In proceeding of IEEE International Symposium on Policies for Distributed Systems and Networks (POLICIES 2009).

[11] Leonardo Mostarda and Changyu Dong and Naranker Dulay. Place and Time Authentication of Cultural Assets. In proceeding of , Trust Management and Security (IFIPTM 2008). Springer Verlag (2008)

[10] Giovanni Russello and Leonardo Mostarda and Naranker Dulay. ESCAPE: A Component-Based Policy Framework for Sense and React Applications. In proceeding of Component Based Software Engineering Conference (CBSE 2008).

[9] Paola Inverardi and Leonardo Mostarda. DESERT: a decentralized monitoring tool generator. In proceedings of the 22nd IEEE/ACM International Conference on Automated Software Engineering (ASE 2007).

[8] Leonardo Mostarda and Arianna Tocchio and Paola Inverardi and Stefania Costantini. A geo time authentication System. In proceeding of Joint iTrust and PST Conferences on Privacy, Trust Management and Security (IFIPTM 2007). Series: IFIP International Federation for Information Processing ,Springer Verlag Vol. 238 2007

[7] Stefania Costantini, Arianna Tocchio, Panagiota Tsintza and Leonardo Mostarda. Agents and Security in a Cultural Assets Transport Scenario. (WOA 2007

[6] Stefania Costantini, Leonardo Mostarda, Arianna Tocchio and Panagiota Tsintza. DALICA: Intelligent Agents for User Profile Deduction. In Proceedings of the 19 International Conference on Software Engineering and Knowledge Engineering, Boston, Massachusetts (SEKE'2007), USA, July 9-11, 2007. ISBN=1-891706-20-9

[5] Stefania Costantini, Paola Inverardi, Leonardo Mostarda, Arianna Tocchio and Panagiota Tsintza. User Profile Agents for Cultural Heritage fruition. Symposium on Artificial Societies for Ambient Intelligence (ASAmI 2007)

[4] Leonardo Mostarda, Paola Inverardi and Alfredo Navarra. Distributed IDSs for enhancing Security in Mobile Wireless Sensor Networks. In proceeding of AINA IEEE 2006 Conference (AINA 2006)

[3] Leonardo Mostarda and Paola Inverardi. A Distributed Intrusion Detection Approach for Secure Software Architecture. European Workshop on Software Architecture (EWSA 2005). Lecture Notes in Computer Science, vol. 3527. Springer, 2005.

[2] Leonardo Mostarda, Paola Inverardi, Marco Autili and Massimo Tivoli. Synthesis of correct and distributed adaptors for component-based systems: an automatic approach. In proceeding of 20th IEEE/ACM International Conference on Automated Software Engineering 2005. (ASE 2005)

[1] Leonardo Mostarda. Distributed Intrusion Detection Systems for Secure Software Architectures. Ph.D. Thesis 2006 University of L'Aquila

6 Academic Leadership

6.1 Editorial board:

- **Editorial board** of the International Journal of Distributed Sensor Networks
<https://journals.sagepub.com/home/dsn> Q2 SJR from 01-06-2016 to 01-09-2017
- **Editorial Board** on Journal on Security and Communication Networks,
<https://www.hindawi.com/journals/scn/editors/> Q2 SJR from 14-07-2016
- **Guest Editors** of the special issue on Security and Privacy in Emerging Decentralized Communication Environments, IEEE access <https://ieeaccess.ieee.org/special-sections-closed/security-and-privacy-in-emerging-decentralized-communication-environments/> Q1 SJR from 30-09-2019
- **Reviewer board** Sensors Journal https://www.mdpi.com/journal/sensors/submission_reviewers Q1 SJR from 01-06-2020
- **Editor special issue** on Wireless Sensor Networks (WSNs) Telecom (ISSN 2673-4001) Journal https://www.mdpi.com/journal/telecom/special_issues/Wireless_WSNs from 01-06-2020
- **Editor special issue** on Wireless Sensor Networks (WSNs) Algorithms (ISSN 1999-4893; CODEN: ALGOCH) Journal https://www.mdpi.com/journal/algorithms/special_issues/Algorithms_E3WSN from 01-06-2020

6.1 Organizzazione e partecipazione a conferenze internazionali:

Speaker for the paper with title A distributed intrusion detection approach for secure software architecture. P Inverardi, L Mostarda - Conference of 2nd European Workshop on Software Architecture, EWSA 2005 ; Conference Date: 13 June 2005 Through 14 June 2005; dal 13-06-2005 al 14-06-2005

Speaker for the paper with title Distributed IDSs for enhancing security in mobile wireless sensor networks. P Inverardi, L Mostarda, A Navarra - 20th International Conference on Advanced Information Networking and Applications ; Conference Date: 18 April 2006 Through 20 April 2006 dal 18-04-2006 al 20-04-2006

Speaker for the paper with title User profile agents for cultural heritage fruition. S Costantini, P Inverardi, L Mostarda, A Tocchio - Conference of Artificial and Ambient Intelligence, AISB'07 ; Conference Date: 2 April 2007 Through 4 April 2007 dal 02-04-2007 al 04-04-2007

Speaker for the paper with title A geo time authentication system L Mostarda, A Tocchio, P Inverardi, S Costantini - Joint iTrust and PST Conferences on Privacy, Trust Management and Security, July 30– August 2, 2007, New Brunswick, Canada dal 30-07-2007 al 02-08-2007

Program Committee Member of ADVCOMP 2007, International Conference on Advanced Engineering Computing and Applications in Sciences. November 4-9, 2007 - Papeete, French Polynesia (Tahiti). WEB_PAGE = <https://www.iaia.org/conferences2007/ADVCOMP07.html> dal 04-11-2007 al 09-11-2007

Speaker for the paper with title DESERT: A decentralized monitoring tool generator. P Inverardi, L Mostarda - Conference of 22nd IEEE/ACM International Conference on Automated Software Engineering, ASE'07 ; Conference Date: 5 November 2007 Through 9 November 2007 dal 05-11-2007 al 09-11-2007

Speaker for the paper with title Place and time authentication of cultural assets. Naranker Dulay, Changyu Dong, Leonardo Mostarda - IFIP International Conference on Trust Management, Jun 18, 2008 - Jun 20, 2008, Trondheim, Norway dal 18-06-2008 al 20-06-2008

Program Committee Member of the SECURWARE 2008, The Second International Conference on Emerging Security Information, Systems and Technologies. August 25-31, 2008 - Cap Esterel, France. WEB_PAGE = <https://www.iaia.org/conferences2008/SECURWARE08.html> dal 25-08-2008 al 31-08-2008

Program Committee Member of ADVCOMP 2008, The Second International Conference on Advanced Engineering Computing and Applications in Sciences, September 29 - October 4, 2008 - Valencia, Spain. WEB_PAGE = <https://www.iaia.org/conferences2008/ADVCOMP08.html> dal 29-09-2008 al 04-10-2008

Program Committee Member of the SECURWARE 2009, The Third International Conference on Emerging Security Information, Systems and Technologies, June 18-23, 2009 - Athens/Vouliagmeni, Greece. WEB_PAGE = <https://www.iaia.org/conferences2009/SECURWARE09.html> dal 18-06-2009 al 23-06-2009

Speaker for the paper with title A state machine-based approach for reliable adaptive distributed systems, Leonardo Mostarda, Daniel Sykes, Naranker Dulay - Seventh IEEE International Conference and Workshops on Engineering of Autonomic and Autonomous Systems 22-26 March 2010, Oxford, UK dal 22-03-2010 al 26-03-2010

Speaker for the paper with title Distributed orchestration of pervasive services, Leonardo Mostarda, Rudi Ball, Naranker Dulay - The 24th IEEE International Conference on Advanced Information Networking and Applications (AINA 2010), Apr 20, 2010 – Apr 23, 2010, Perth, Western Australia dal 20-04-2010 al 23-04-2010

Program Committee Member of the SECURWARE 2010, The Fourth International Conference on Emerging Security Information, Systems and Technologies July 18-25, 2010 - Venice/Mestre, Italy WEB_PAGE = <https://www.iaia.org/conferences2010/SECURWARE10.html> dal 18-06-2010 al 18-06-2010

Program Committee Member of the 25th International Conference on Advanced Information Networking and Applications (AINA 2011), Biopolis, Singapore, 22 - 25 Mar 2011- IEEE_LINK= <https://ieeexplore.ieee.org/xpl/conhome/5762826/proceeding> - DBLP = <https://dblp.org/db/conf/aina/aina2011> dal 22-03-2011 al 25-03-2011

Program Committee Member of the 2nd International ACM Sigsoft Symposium on Architecting Critical Systems, 2011-08-01, VenueBoulder, USA - United States USA - the United States - ACM_LINK = <https://dl.acm.org/doi/proceedings/10.1145/2000259> dal 08-08-2011 al 08-08-2011

Program Committee Member of the SECURWARE 2011, The Fifth International Conference on Emerging Security Information, Systems and Technologies, August 21-27, 2011 - Côte d'Azur, France WEB_PAGE = <https://www.iaia.org/conferences2011/SECURWARE11.html> dal 21-08-2011 al 27-08-2011

Program Committee Member of the SECURWARE 2012, The Sixth International Conference on Emerging Security Information, Systems and Technologies, August 19-24, 2012 - Rome, Italy WEB_PAGE = <https://www.iaia.org/conferences2012/ComSECURWARE12.html> dal 19-08-2012 al 24-08-2012

Program Committee Member of the ACM workshop on Mobile development lifecycle, October 28, 2013 Indianapolis, Indiana, USA - ACM_LINK = <https://dl.acm.org/doi/proceedings/10.1145/2542128> - ISBN: 978-1-4503-2603-2 dal 28-10-2013 al 28-10-2013

Program Committee Member of the 3rd International Workshop on the Reliability of Intelligent Environments (WoRIE'13), held within the 4th International Joint Conference on Ambient Intelligence (Aml-2013) Dublin, Ireland, December 3rd-5th, 2013 - WEB_PAGE = <https://agile-online.org/index.php/news/186-cfp-3rd-international-workshop-on-the-reliability-of-intelligent-environments-worie-13> dal 03-12-2013 al 05-12-2013

Program Committee Member of the Workshop on Architecting Mobile-enabled Systems (AMeS 2014), In conjunction with the 11th Working IEEE/IFIP Conference on Software Architecture (WICSA 2014), April 8, 2014 — Sydney, Australia - WEB PAGE = <http://ames2014.di.univaq.it> dal 08-04-2014 al 08-04-2014

Chair of the 1st Int. Workshop on Engineering Energy Efficient WSNs (EEEWSN) Victoria, Canada, May 13-16, 2014 - IEEE_LINK=<https://ieeexplore.ieee.org/document/7096114> - SCOPUSID=2-s2.0-8490447377 - WEB_PAGE = <https://sites.google.com/site/eeewsn2014/> dal 13-05-2014 al 16-05-2014

Program Committee Member of the Proceedings of the 2nd International Workshop on Mobile Development Lifecycle (MobileDeLi '14), Portland, OR, USA, October 20-24, 2014 - ACM_LINK = <https://dl.acm.org/doi/proceedings/10.1145/2688412> - ISBN: 978-1-4503-2190-7 - DBLP=<https://dblp.org/db/conf/oopsla/mobiledeli2014.html> dal 20-10-2014 al 24-10-2014

Program Committee Member of the 2st Int. Symposium on Engineering Energy Efficient WSNs (EEEWSN - 2015) Gwangju, Korea, March 24-27, 2015 - IEEE_LINK= <https://ieeexplore.ieee.org/document/7096114> - SCOPUSID=2-s2.0-8490447377 - WEB_PAGE = <https://sites.google.com/site/eeewsn2015/> dal 24-03-2015 al 27-03-2015

Program Vice-Chairs of The IEEE International conference on Internet of People (IoP2015), August 10-14, 2015, Beijing. - IEEE_LINK= <https://ieeexplore.ieee.org/document/7518196?denied=> - isbn = 978-3-030-44037-

4 - WEB_PAGE = http://www.cybermatics.org/SmartWorldCongress2015/SWC2015/loP/loP_committees.htm
dal 10-08-2015 al 14-08-2015

Speaker for the paper with A comparison of HEED based clustering algorithms - Introducing ER- HEE, Zaib Ullah, Leonardo Mostarda, Roberto Gagliardi, Diletta Cacciagrano, Flavio Corradini - The 30th IEEE International Conference on Advanced Information Networking and Applications (AINA 2016) March 23 – 25, 2016 Crans-Montana, Switzerland dal 23-03-2016 al 25-03-2016

Chair of the 3rd Int. Symposium on Engineering Energy Efficient WSNs (EEEWSN), Le Régent Congress Centre, Crans-Montana, Switzerland, March 23-25, 2016 - IEEE_LINK= <https://ieeexplore.ieee.org/document/7471136> - SCOPUSID=-2-s2.0-84983494274 - WEB_PAGE = <https://sites.google.com/site/eeewsn2016/> dal 23-03-2016 al 25-03-2016

Program Committee Member of the IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft 2016), May 16-17 (Monday-Tuesday) 2016 – Austin, TX (USA) - ACM_LINK = <https://dl.acm.org/doi/proceedings/10.1145/2897073> - WEB PAGE = <https://mobilesoftconf.org/2016/> dal 16-05-2016 al 17-05-2016

Chair of the 4th Int. Symposium on Engineering Energy Efficient InternetWorked Smart seNsors (E3WSN) Pedagogical University of Cracow, Poland, May 16-18, 2018 - IEEE_LINK= <https://www.computer.org/csdl/proceedings-article/waina/2018/539501z059/12OmNxUv6hL> - SCOPUSID=-s2.0-85056353356 - WEB_PAGE = <https://sites.google.com/site/e3wsnmain/home> dal 16-05-2018 al 18-05-2018

Chair of the 5th Int. Symposium on Engineering Energy Efficient InternetWorked Smart seNsors (E3WSN) Kunibiki Messe, Matsue, Japan March 27 to March 29, 2019 - SPRINGER_LINK= <https://link.springer.com/book/10.1007/978-3-030-15035-8> - ISSN=-2194-5375 - DOI= 10.1007/978- 3-030-15035-8 - WEB_PAGE = <https://sites.google.com/view/e3wsn-2019/home> dal 27-03-2019 al 29-03-2019

Program Committee Member of the International Symposium on High Performance Mobile Computing & Wireless Networks for HPC(MCWN 2019), July 15 – 19, 2019 Dublin, Ireland. - WEB PAGE = http://hpcs2019.cisedu.info/2-conference/symposia/symp03-mcwn?utm_source=researchbib dal 15-07-2019 al 19-07-2019

Chair of the 3rd Distributed Ledger Technology Workshop, DLT 2020; Ancona; Italy; 4 February 2020 ; Code 158603, CEUR Workshop Proceedings Volume 2580, 2020. - CEUR_LINK= <http://ceur-ws.org/Vol-2580/> - WEB_PAGE = <http://www.dmi.unipg.it/DLTWorkshop/dlt2020.html> - SCOPUS CODE=2-s2.0-85082681278 dal 04-02-2020 al 04-02-2020

Workshops Chairs of the 34-th International Conference on Advanced Information Networking and Applications (AINA-2020) University of Campania "Luigi Vanvitelli", Caserta, Italy April 15 to April 17, 2020 - SPRINGER_LINK= <https://link.springer.com/book/10.1007/978-3-030-44038-1> - isbn = 978-3-030-44037-4 - DOI= 10.1007/978-3-030-44038-1 - WEB_PAGE = <http://voyager.ce.fit.ac.jp/conf/aina/2020/committee.php> dal 15-04-2020 al 17-04-2020

Chair of the 6th Int. Symposium on Engineering Energy Efficient InternetWorked Smart seNsors (E3WSN) University of Campania "Luigi Vanvitelli", Caserta, Italy April 15 - 17, 2020 - SPRINGER_LINK= <https://link.springer.com/book/10.1007%2F978-3-030-44038-1?page=2#toc> - isbn = 978-3-030-44037-4 - DOI= 10.1007/978-3-030-44038-1 - WEB_PAGE = <https://sites.google.com/view/e3wsn-2020/home> dal 15-04-2020 al 17-04-2020

Program Committee Member of 3rd Workshop on Cryptocurrencies and Blockchains for Distributed Systems (CryBlock 2020), co-located with MobiCom 2020, September 25th, 2020, London, United Kingdom -- TO BE DONE - WEB PAGE = <http://www.cryblock.org> dal 25-09-2020 al 25-09-2020

Organising committee, Sponsorship & Exhibits Chair of the EAI International Conference on Forthcoming Networks and Sustainability in the IoT Era, October 1-2, 2020 Antalya, Turkey Cyberspace. - TO BE DONE - WEB_PAGE = <https://fones-iot.org> dal 01-10-2020 al 02-10-2020

Organising committee, Web Chair of the EAI AISCOVID-19 2020 - EAI International Conference on AI-assisted Solutions for COVID-19 and Biomedical Applications in Smart-Cities December 2-4, 2020, Portugal. - TO BE DONE - WEB_PAGE = <https://aiscovid19.org> dal 02-12-2020 al 04-12-2020

Chair of the 7th International Workshop on Engineering Energy Efficient InternetWorked Smart seNsors (E3WSN-2021), Ryerson University, Toronto, Canada, May 12 - 14, 2021, Collocated with The 35th International Conference on Advanced Information Networking and Applications (AINA- 2021) - WEB_PAGE = <http://voyager.ce.fit.ac.jp/conf/aina/2021/workshops.php> - WEB_SITE= <https://sites.google.com/view/e3wsn-2021/home> dal 12-05-2021 al 14-05-2021

Track Co-chairs of The 35th International Conference on Advanced Information Networking and Applications (AINA-2021) Ryerson University, Toronto, Canada May 12 - 14, 2021- WEB_PAGE = <http://voyager.ce.fit.ac.jp/conf/aina/2021/>-

7 Management

Coordinatore della sezione di informatica computer science 2012 to 2017

CEO Bilancio CO2zero: <http://www.bilancioco2zero.com> dal 2018

Coordinatore ILab Blockchain and IoT section: <https://www.i-labs.it/it/smart-and-digital-solutions>
<https://www.mchain.it>

PhD. board member per UNICAM computer science and complex system design dal 2014

9 Riconoscimenti e visiting position

Best paper awards Naranker Dulay, Matteo Micheletti, Leonardo Mostarda and Andrea Piermarteri. PICO-MP: De-Centralised Macro-Programming for Wireless Sensor and Actuator Networks." The 32nd IEEE International Conference on Advanced Information Networking and Applications (IEEE AINA-2018), Pedagogical University of Cracow, Poland, May 16-18, 2018

Best paper awards Rosario Culmone, Diletta Cacciagrano, Fadi Al-Turjman, Leonardo Mostarda. Share: A Design Pattern for Dynamic Composition of IoT Services Forthcoming Networks and Sustainability in the IoT Era: First EAI International Conference, FoNeS-IoT 2020, Virtual Event, October 1-2, 2020,

Visiting Honorary Academic position Computer Science, Middlesex University, The Burroughs, London NW4 4BT UK from 01-05-2015 to 01-05-2018

In fede
Leonardo Mostarda