

# FLAMINIA L. LUCCIO

Curriculum Vitae  
Associate Professor

## PERSONAL DATA

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**Name and Surname:** Flaminia L. Luccio  
**Date and place of birth:** 28 Novembre 1969, Roma (RM)  
**Nationality:** Italian  
**Home address:** via Perlan 53/A, 30174 Venezia Mestre (Ve), Italy  
**Current Position:** Associate Professor, SC: 01/B1, SSD: INF/01 INFORMATICA  
Department of Environmental Sciences Informatics and Statistics (DAIS)  
Ca' Foscari University of Venice, via Torino 155, 30172 Venezia Mestre, Italy  
**Office phone:** 041-2348448  
**Office fax:** 041-2348419  
**E-mail:** luccio@unive.it

## NATIONAL SCIENTIFIC QUALIFICATION

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### Full Professor (Professore universitario di Prima fascia)

National Scientific Qualification - Abilitazione Scientifica Nazionale - as Full Professor ASN 2018-2020  
Competition sector: 09/H1 SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI  
Scientific disciplinary sector: ING-INF/05 SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI  
Period of validity: from 14/04/2021 to 14/04/2032

### Full Professor (Professore universitario di Prima fascia)

National Scientific Qualification - Abilitazione Scientifica Nazionale - as Full Professor ASN 2021-2023  
Competition sector: 01/B1 INFORMATICA  
Scientific disciplinary sector: INF/01 INFORMATICA  
Period of validity: from 06/02/2023 to 06/02/2034

## EDUCATION

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<b>University of Milan, Italy</b> <i>PhD in Computer Science</i> Thesis title: <i>Communication in Distributed Systems</i> Supervisor Prof. Giancarlo Mauri, Co-supervisor Prof. Danny Krizanc, Carleton University, Ottawa, Canada	<i>March 1999</i>
<b>Carleton University of Ottawa, Canada</b> <i>Master in Computer Science</i> Thesis title: <i>Distributed Algorithms for Routing and String Recognition</i> Supervisor Prof. Danny Krizanc, Carleton University, Ottawa, Canada	<i>June 1995</i>
<b>University of Pisa</b>	<i>July 1993</i>

*Laurea Degree in Scienze dell'Informazione*

Thesis title: *Approssimazione numerica di zeri di polinomi: analisi e sviluppo di alcuni metodi basati sull'algoritmo euclideo*

Supervisor Prof. Dario Bini, Department of Mathematics, University of Pisa

Final grade: 110/110 e lode (top grade)

Exchange program between Universities: she studied Computer Science at the l'University of Frankfurt am Main, Germany, from September 1991 to April 1992

## SPECIALIZATION SCHOOLS

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- *First International School on Biology, Computation and Information* (BCI'04), Dobbiaco (BZ), September 19-24, 2004.
- *Unesco Escuela Internacional de Bioinformatica*, La Habana, Cuba, January 7-16, 2002.
- *International School for Computer Science Researchers in E-commerce and On-Line Algorithms*, Lipari, Italy, July 2000.
- *International School for Computer Science Researchers in Distributed Systems and Security*, Lipari, Italy, July 1998.
- *Advanced Research School on Structural Information and Communication*, Pontignano (SI), Italy, June 16-20, 1997.
- *International School for Computer Science Researchers in Computer Graphics*, Lipari, Italy, July 1996.
- *Course to become System Manager of UNIX systems*, Milan. Title obtained on 9 February 1996.
- *Prima Scuola Nazionale dei Dottorati di Informatica delle Facoltà di Scienze*, Pontignano (SI), Italy, October 2-6, 1995.
- *International School on Distributed Algorithms*, Pontignano (SI), Italy, June 5-17, 1994.

## ACADEMIC POSITIONS

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**Ca' Foscari University of Venice**

*Associate Professore (Tenured)*

SC: 01/B1, SSD: INF/01 INFORMATICA

Department of Environmental Sciences, Informatics and Statistics (DAIS)

*Venice, Italy*

*November 2009 - today*

**Ca' Foscari University of Venice**

*Assistant Professor (Tenured)*

SC: 01/B1, SSD: INF/01 INFORMATICA

Department of Applied Mathematics

*Venice, Italy*

*November 2006 - October 2009*

**University of Trieste**

*Assistant Professor (Tenured)*

SC: 01/B1, SSD: INF/01 INFORMATICA

Department of Mathematics and Computer Science

*Trieste, Italy*

*July 1998 - October 2006*

*Maternity leave*

*From 6/27/2006 to 11/26/2006*

*Maternity leave*

*From 11/17/2009 to 4/17/2010*

*Sick leave and medical leave*

*From 6/9/2016 to 6/20/2016*

## THIRD MISSION

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## TECHNOLOGY TRANSFER

### **Spin-off at Ca' Foscari University of Venice**

*Since January 31, 2020*

Founding partner together with Andrea Albarelli, Riccardo Focardi and Francesco Palmarini.

The main activities of the spin-off include the development and testing of innovative tools, based on research and on the current state of the art in the field of computer security. The spin-off also offers "best practices" for securing IoT systems, embedded systems, hardware and software mainly in the automotive and home automation sectors. Website : <https://www.10sec.it/> .

## SOFTWARE DEVELOPMENT

Flaminia Luccio has contributed, with its own research activity, to the development of the following software products:

### **Mignis: a tool for firewall configuration**

Mignis is a firewall configuration tool, also used by the Department of Environmental, Statistics and Computer Sciences of Ca' Foscari. Repository: <http://github.com/secgroup/Mignis>. Tool developed starting from the scientific research of the article: "Mignis. A semantic based tool for Firewall configuration", di P. Adao, Claudio Bozzato, Gian-Luca Dei Rossi, R. Focardi, F.L. Luccio. Nei proceedings del *IEEE 27th Computer Security Foundations Symposium (CSF'14)*, July 19 - 22, 2014, Vienna, Austria, <https://ieeexplore.ieee.org/document/6957122>

### **Banana: a tool for analyzing "information leakage" in mobile environments**

Banana, is a tool for analyzing "information leakage" in mobile environments. The tool has been presented in the article: Braghin, C., Cortesi, A., Filippone, S., Focardi, R., Luccio, F.L., Piazza, C. (2003). Banana - A Tool for Boundary Ambients Nesting ANALysis. In: Garavel, H., Hatcliff, J. (eds) Tools and Algorithms for the Construction and Analysis of Systems. TACAS 2003. Lecture Notes in Computer Science, vol 2619. Springer, Berlin, Heidelberg. [https://doi.org/10.1007/3-540-36577-X\\_32](https://doi.org/10.1007/3-540-36577-X_32)

## EDUCATIONAL LABS FOR SCHOOLS

### **Digital Ca' Foscari**

*05/2016*

Computer science from 7 to 13 years old: Meeting with third graders. Frontal lesson of didactic/playful type and laboratory activities.

## TEACHING ACTIVITY

### COURSES

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#### DOCTORAL COURSES

##### **Presentation tools for researchers**

12 hours, for the inter-university doctoral school of Ca' Foscari University, Venice, January 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023.

##### **Presentation tools for researchers**

10 hours, for the inter-university doctoral school of Ca' Foscari University, Venice, January 2014, 2015.

##### **Distributed Algorithms**

30 hours, for the PhD in Computer Science, Ca' Foscari University, Venice, October 2014.

##### **Distributed Algorithms**

20 hours, for the PhD in Computer Science, Ca' Foscari University, Venice, January 2014.

**Computer Science lab (Digital signature)**, exercises for the Interuniversity Doctoral School in Legal Sciences, Faculty of Economics, Ca' Foscari University of Venice, October 2008.

**Computer Science lab (Introduction to Computer Science)**, exercises for the Interuniversity Doctoral School in Legal Sciences, Faculty of Economics, Ca' Foscari University of Venice, October 2008.

**Computer Science lab (Introduction to Computer Science)**, exercises for the PhD in European law of civil, commercial and labor contracts, Faculty of Economics, Ca' Foscari University of Venice, October 2008.

##### **Distributed Algorithms**

20 hours, for the PhD in Computer Science, Ca' Foscari University, Venice, April 2008.

**Computer Science lab (Digital signature)**, exercises for the Inter-university Doctoral School in Legal Sciences, Faculty of Economics, Ca' Foscari University of Venice, October 2007.

**Distributed Algorithms**

10 hours, for the PhD in Computer Science, Ca' Foscari University, Venice, March-April 2005 (as an external teacher).

**ONLINE COURSES**

**Introduction to Computer Science**, Mooc course, taught together with Andrea Albarelli and Renzo Orsini, Ca' Foscari University of Venice, A.Y. 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-21, 2021-22, 2022-23.

**DEGREE COURSES IN COMPUTER SCIENCE AND ECONOMICS AT CA' FOSCARI**

**Cryptography**

48 hours, in English, course lecturer. Master Degree Program in Computer Science, Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice. A.Y. 2016-17, 2017-18 (grade 3,38/4 area mean 3,17), 2018-19 (grade 3,37/4 area mean 3,22), 2019-20 (grade 8,21/10 area mean 7,88), 2020-21 (grade 8,8/10 area mean 8,07), 2021-22 (grade 9,13/10 area mean 7,81), 2022-23, 2023-24 (ongoing).

**Web Technologies for Tourism**

30 hours, course lecturer. Faculty of Economics, Ca' Foscari University of Venice. A.Y. 2013-14, 2014-15, 2015-16, 2016-17, 2017-18 (grade 3,45/4 area mean 3,08), 2018-19 (grade 3,65/4 area mean 3,08), 2019-20 (grade 9,12/10 area mean 7,61), 2020-21 (grade 8,84/10 area mean 7,84), 2021-22 (grade 8,55/10 area mean 7,72), 2022-23, 2023-24.

**Advanced and Distributed Algorithms**

48 hours, in English, course lecturer. Bachelor Degree Program in Computer Science, Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice. A.Y. 2022-23.

**Advanced Algorithms and Programming Methods, modulo 1**

48 hours, in English, course lecturer. Master Degree Program in Computer Science, Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice. A.Y. 2015-16, 2016-17, 2017-18 (grade 3,3/4 area mean 3,17), 2018-19 (grade 2,91/4 area mean 3,22), 2019-20 (grade 8,64/10 area mean 7,88), 2020-21 (grade 8,25/10 area mean 8,07), 2021-22 (grade 8,59/10 area mean 7,81).

**Computing skills for Economics**

30 hours, course lecturer. Bachelor Degree Program in Business Economics, letters Lb-Z, Faculty of Economics, Ca' Foscari University of Venice. A.Y. 2015-16.

**Computing skills for Economics**

30 hours, course lecturer. Bachelor Degree Program in Business Economics, letters A-La, Faculty of Economics, Ca' Foscari University of Venice. A.Y. 2011-12, 2012-13, 2013-14, 2014-15.

**Databases and Web module II**

30 hours, course lecturer. Bachelor Degree Program in "Statistics and information technology for business management", Faculty of Economics, Ca' Foscari University of Venice, campus of Treviso. A.Y. 2010-11, 2011-12, 2012-13.

**Information systems and Web technologies for tourism module II**

30 hours, course lecturer. Master Degree in "Intercultural development of tourism systems", Faculty of Economics, Ca' Foscari University of Venice. campus of Treviso. A.Y. 2011-12, 2012-13.

**Basic computer science and programming module I e II**

30 hours, course lecturer. Bachelor Degree Program in "Statistics and information technology for business management", Faculty of Economics, Ca' Foscari University of Venice, campus of Treviso. A.Y. 2009-10, 2010-11.

**Computing skills for Economics**

30 hours, course lecturer. For all the Bachelor Degree Programs (final of student number 6-7), Faculty of Economics, Ca' Foscari University of Venice, campus of Venice. A.Y. 2009-10, 2010-11.

**Corporate Information Systems A**

30 hours, course lecturer. Bachelor Degree Program in "Statistics and information technology for business management", Faculty of Economics, Ca' Foscari University of Venice, campus of Treviso. A.Y. 2009-10, 2010-11.

**Computing skills for Economics**

30 hours, course lecturer. For all the Bachelor Degree Programs (letters N-Sc), Faculty of Economics, Ca' Foscari University of Venice, campus of Venice. A.Y. 2008-09.

**Distributed Systems, module 2**

Course lecturer. Master Degree Program in Computer Science, Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice. A.Y. 2008-09.

**Computer laboratory A**

30 hours, course lecturer. For all Bachelor Degree Program in "Statistics and information technology for business management ", Faculty of Economics, Ca' Foscari University of Venice, campus of Treviso. A.Y. 2007-08.

**Telematic network law I**

Course exercises. Master Degree Program, Faculty of Economics, Ca' Foscari University of Venice. A.Y. 2006-07.

**DEGREE COURSES IN COMPUTER SCIENCE AND MATH, UNIVERSITY OF TRIESTE****Informatics I: Algorithms and Data Structures (ASD)**

Course lecturer. Bachelor Degree Program in Computer Science and Mathematics, University of Trieste. A.A. 2003-04, 2004-05, 2005-06.

**Parallel and distributed processing modulus A**

Course lecturer. Bachelor Degree Program in Computer Science, University of Trieste. A.A. 2004-05, 2005-06.

**Network theory and cryptography**

Some lectures inside the Bachelor Degree Program in Computer Science, University of Trieste, together with Dott. Russo. A.A. 2003-04.

**Informatics I: Algorithms and Data Structures (ASD)**

Some lectures inside the Bachelor Degree Program in Computer Science and Mathematics, University of Trieste. together with Prof. Franz Fabris and Andrea Sgarro. A.A. 2001-02, 2002-03.

**DEGREE COURSES IN GEOLOGY, ENV. AND BIO., NATURAL SCIENCES UNIV. OF TS****Computer Science**

Course lecturer. Bachelor Degree in Geology. University of Trieste. A.A. 2002-03.

**Data elaboration systems**

Course lecturer. Bachelor Degree in Environmental Sciences, University of Trieste. A.A. 2000-01, 2001-02.

**Exercises of Computer Science Laboratory**

Bachelor Degree in Biological Science, University of Trieste. A.A. 2000-01, 2001-02.

**Exercises of Mathematical and Statistical Methods)**

Bachelor Degree in Biological Science, University of Trieste. A.A. 1998-99, 1999-2000.

**Exercises of Data elaboration systems**

Course lecturer. Bachelor Degree in Environmental Sciences, University of Trieste. A.A. 1999-2000.

**Exercises of Programming Techniques**

Bachelor Degree in Natural Science, University of Trieste. A.A. 1998-99.

**TEACHING ASSISTANT AT THE CARLETON UNIVERSITY OF OTTAWA****Data Structures and Algorithm Analysis**

Undergraduate and graduate course. Teaching Assistant at the Carleton University di Ottawa, Canada. A.A. 1994-95.

**Introduction to Computers for Students in the Social Sciences**

Undergraduate course. Teaching Assistant at the Carleton University di Ottawa, Canada. A.A. 1993-94.

**Concurrent Programming**

Undergraduate course. Teaching Assistant at the Carleton University di Ottawa, Canada. A.A. 1993-94.

## **Introduction to distributed algorithms**

presso la University of Thessaly, Greece, all'interno di un accordo Erasmus +.

*14-17 maggio 2017*

## **Security issues for mobile agents**

presso la University of Thessaly, Greece, all'interno di un accordo Erasmus +.

*14-17 maggio 2017*

## **UNIVERSITY TUTOR**

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Stage tutor at the University Ca' Foscari Venezia, Italy.

*Since 2008*

## **SUPERVISION OF RESEARCH GRANTS**

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- Second Scientific Coordinator of a research grant "Innovative techniques for detecting vulnerabilities in Smart contracts", Dalila Ressi, on PE0000014 -Security and Rights in the CyberSpace (SERICS), project SCAI, 24 months, 2023-2025.

## **SUPERVISION OF PHD THESIS**

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- Alessia Michela di Campi, "Secure and usable password systems", PhD in Computer Science, Department of Environmental Sciences, Informatics and Statistics, XXXVII cycle (ongoing).
- Heider Ahmad Mutleq Wahsheh, "Secure and usable QR codes", PhD in Computer Science, Department of Environmental Sciences, Informatics and Statistics, XXXI cycle.

## **SUPERVISION OF BACHELOR AND MASTER THESIS**

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- Thesis supervisor for different thesis at the University of Milan, Trieste and Venice from 09/1996 to 10/2006. The list below is for thesis starting in A.Y. 2008/09.
- Bachelor thesis: TOFFOLO ANDREA (SIGI) Title: Il controllo degli accessi a tutela della privacy: un caso studio per le "categorie protette"
- Bachelor thesis: ERIKA DE BORTOLI (SIGI) Title: Accessibilità e sicurezza nei portali: il caso della Comunità Montana Feltrina
- Bachelor thesis: ANDREA VETTORELLO (ECONOMIA AZIENDALE) Title: Open source: organizzazione, strategie e prospettive
- Master thesis: MICHELE MARCO SCHIAVON Title: Il Web 2.0 in azienda: strategia di marketing o cambiamento concreto?
- Bachelor thesis: ALESSANDRO TOFFOLO (SIGI) Title: Il linguaggio XML come strumento per lo scambio di informazioni tra basi di dati diverse
- Bachelor thesis: NICOLA CAPPELLESSO (SIGI) Title: I linguaggi di scripting: un caso studio
- Bachelor thesis: OLIMPIA MASCHIO (SIGI) Title: L'utilizzo della tecnologia RFID nella gestione dei magazzini: studio di un caso pratico
- Bachelor thesis: PAOLA FRANCO (SIGI) Title: Siti Web usabili e strumenti innovativi per la grafica.
- Master thesis: ALBERTO STEVANATO (SIGI) Title: La sicurezza nelle basi di dati Possibili attacchi e tecniche di protezione
- Bachelor thesis: IRENE BUSCATO (SIGI) Title: La sicurezza delle informazioni nelle basi di dati: un caso studio.
- Bachelor thesis: MAURO CALLEGARI (SIGI) Title: Le moderne tecnologie per un Web multimediale: un caso studio
- Bachelor thesis: PAMELA DE MIN TONA (SIGI) Title: La Steganografia e l'occultamento di dati in oggetti multimediali
- Bachelor thesis: ROBERTA MERCANTI (SIGI) Title: Analisi dei Software Open Source per le applicazioni di Business Intelligence

- Bachelor thesis: MICHELE STEFANATTO (SIGI) Title: Il cloud computing e la condivisione delle informazioni
- Bachelor thesis: MATTEO BONOTTO (SIGI) Title: Sicurezza nel canale di comunicazione tra basi di dati e client
- Bachelor thesis: MARCO DALLA LIBERA (SIGI) Title: Informatizzazione dei processi di valutazione del personale e integrazione con i sistemi ERP
- Bachelor thesis: CARLO CAPPELLETTO (SIGI) Title: Estrazione e Analisi Statistica dei dati di una base di dati tramite programmi Open Source.
- Bachelor thesis: ANNA STEFFAN (SIGI) Title: Blog: nuove modalità di notifica
- Bachelor thesis: SAMANTHA GIRO (SIGI) Title: SEO e Google AdSense: la nuova frontiera del business
- Bachelor thesis: CASANOVA DENIS (SIGI) Title: Metodi di posizionamento nei motori di ricerca
- Bachelor thesis: SERENA DONANZAN (SIGI) Title: La privacy nei social network
- Bachelor thesis: LUCA DONADI (SIGI) Title: PeerAppMarket: un protocollo ibrido P2P/Cloud per la distribuzione di applicazioni
- Bachelor thesis: PRISCA PRIMAVERA PICCOLI (SIGI) Title: L'utilizzo dei socket nei servizi Web
- Bachelor thesis: JOHNNY SALAMONE (SIGI) Title: Sviluppo di siti web con il linguaggio Python
- Master thesis: ALBERTO STEVANATO (Computer Science) Title: Protect-to-Prevent: Security of Routing Mechanisms in Peer-to-Peer Networks
- Master thesis: ILEANA MIGLIORINI (SIST) Title: Il Web come possibile strategia di rivalutazione turistica della città di Rovigo
- Master thesis: GENNI ZARDO (SIST) Title: Sviluppo di siti Web con prodotti open source: il caso studio del Sentiero degli Ezzelini
- Bachelor thesis: GIORGIA RAVANNE (SIGI) Title: Il ruolo dell'IT Audit nella gestione del rischio informatico
- Master thesis: ALESSANDRO VUGARDA (Computer Science) Title: Mobile agents security: how to capture a powerful intruder
- Master thesis: DAVIDE MORO (Computer Science) Title: From Theory to Practice: Solving the Rendezvous Problem using Real Robots
- Master thesis: MELI CRISTIAN (SIST) Titolo: Analisi dell'adattabilità dell'interfaccia utente alle diverse culture: il caso studio di un sito turistico alberghiero
- Master thesis: ELISA PIRONE (SIST) Title: Turismo e autismo: realizzazione di un sito Web turistico per soggetti autistici
- Bachelor thesis: FRANCESCO FABBIAN (SIGI) Title: L'informatizzazione dei mercati: potenzialità e limiti del Web
- Master thesis: ALESSIO VANZAN (Computer Science) Title: Mobile Agents Rendezvous in Networks Despite a Malicious Agent
- Master thesis: NARDI SILVIA (SIST) Title: Migliorare la competitività alberghiera tramite l'utilizzo strategico delle tecnologie informatiche: indagine del settore in Friuli Venezia Giulia
- Master thesis: ERICA DAMETTO (SIST) Title: Il Turismo Sociale per il recupero del territorio: il caso studio della Stazione di Albaredo e lo sviluppo del suo sito Web
- Master thesis: CHIARA DE MARCH (SIST) Title: La personalizzazione dei contenuti Web per migliorare l'attrattività delle imprese turistiche e culturali: il caso di studio di Oasi Cervara
- Bachelor thesis: GIACOMO LEMESSI (Economia e Commercio) Title: I codici a barre Tipologie, funzionalità e tecniche di applicazione
- Master thesis: LISA BELTRAME (SIST) Title: Turismo più accessibile a Venezia grazie alla lingua dei segni Analisi e sviluppo del sito Web "LIS viVE"
- Master thesis: DE RIU ELEONORA (SIST) Title: Social Media Marketing e Turismo. Una proposta di promozione turistica tramite Blog e Social Network per la città di Venezia.
- Master thesis: NICOLÒ GHIOTTO (copervisore Prof. Focardi) (Computer Science) Title: Visual Cryptography Schemes with Multiple Secrets and Visual Key Derivation
- Master thesis: TOMMASO MORETTO (copervisore Prof. Focardi) (Computer Science) Title: Secure 2D barcodes based on visual cryptography

- Master thesis: CAVAGGION GIULIA (SIST) Title: Il turismo sightrunning: realizzazione del sito Web “Corri Vicenza”
- Master thesis: CHIARA MAUGERI (SIST) Title: Le tecnologie informatiche e la robotica per un turismo accessibile
- Bachelor thesis: CAMATA ALESSIO (Informatica) Title: Accessibilità per utenti non vedenti: il caso studio accessibleVenice
- Master thesis: MARGHERITA ROSSI (Computer Science) (copervisore Prof. Lucchese) Title: Auditor: a webpage accessibility validator for people with autism spectrum disorders
- Master thesis: MATTEO CARISI (Computer Science) (copervisore Prof. Albarelli) Title: Design and implementation of a chatbot for Marco Polo Airport of Venice
- Master thesis: LUCY BALSAMO (SIST) Title: Prospettive future dell’Aeroporto di Comiso e nuove opportunità offerte dal turismo digitale
- Bachelor thesis: DIEGO VALERIO GASPARI (Informatica) Title: Robotica e Linguaggio dei segni: progettazione e sviluppo di un’applicazione
- Master thesis: CASA GIADA (SIST) Title: Turismo e disabilità: dall’accessibilità fisica a quella tecnologica. Il caso studio del Lido di Venezia
- Master thesis: BEATRICE VALENTINI (SIST) Title: Turismo e tecnologie accessibili: il caso studio del progetto Disability Friendly
- Master thesis: GIORDANO DARINI (Marketing e comunicazione) Title: Il neuromarketing applicato ai siti Web dedicati to turismo. Lo studio su Letyourboat.com
- Master thesis: CENSORIO CHIARA (SIST) Title: La comunicazione di servizi turistici tramite siti Web e la loro personalizzazione in base all’età: il caso studio di un sito di promozione del territorio
- Master thesis: ALESSIA MICHELA DI CAMPI (Computer Science) (copervisore Prof. Focardi) Title: Password guessing: learn the nature of passwords by studying the human behavior
- Master thesis: TREVISAN VALENTINA (SIST) Title: L’applicazione dei codici QR alla promozione turistica Il caso studio dei percorsi cicloturistici del progetto strategico Green Tour – Verde in Movimento
- Master thesis: IRENE DE PAOLI (SIST) Title: Le applicazioni mobili per il turismo accessibile sono realmente accessibili?
- Master thesis: LIVIA GUARIGLIA (SIST) Title: Seo e neuromarketing: l’evoluzione dei motori di ricerca Il caso Barter4Travel
- Master thesis: ERICA MILANOPULO (SIST) Title: Padova senza Barriere: un itinerario turistico virtuale per conciliare edutainment e accessibilità
- Master thesis: SIVIERO ENRICO (copervisore Prof. Focardi) (Computer Science) Title: Password Cracking and Tools: Analysis of Automatic Cracking Tools and Password Guessing
- Master thesis: ANDREA CESTER (copervisore Prof. Focardi) (Computer Science) Title: Automated usability analysis of secure QR code
- Bachelor thesis: Filippo Orsi (Informatica). Title: Analisi ed ottimizzazioni degli strumenti di cracking automatico delle password

## INSTITUTIONAL SERVICES

### INSTITUTIONAL RESPONSIBILITIES

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#### Università Ca’ Foscari Venezia

<b>Delegate of the DAIS Department for the training of teachers</b> , Ca’ Foscari	<i>04/2021 - now</i>
<b>Vice-coordinator of the Doctoral Board</b> in Computer Science at Ca’ Foscari	<i>10/2020 - 10/2022</i>
<b>Delegate for Study Plans and Transfers</b> for the Bachelor’s and Master’s Degree Programs in Computer Science at Ca’ Foscari	<i>01/2013 - now</i>
<b>DAIS Erasmus+ Program Coordinator</b> for Masarykova Univerzita, Brno, Czech Republic	<i>2021 - now</i>
<b>DAIS Erasmus+ Program Coordinator</b> Technische Universität Wien Vienna, Austria	<i>2021 - now</i>
<b>DAIS Erasmus+ Program Coordinator</b> University of Thessaly, Greece	<i>From 2016 - 2021</i>



**Member of the joint commission of the DAIS department**, Ca' Foscari University of Venice *10/2020 - now*

**Member of the National PhD Board** in Cybersecurity *11/2022 - now*

**Member of the Doctoral Board** in Computer Science at Ca' Foscari (except in 2019) *09/2013 - now*

**Member of the teaching board** for the master's degree course in "Intercultural development of tourism systems" *11/2021 - now*

**Member of the teaching board** for the Bachelor and Master Degree in Computer Science *01/2013- now*

**Member of the teaching board** for the Bachelor degree course in Statistics (SIGI) and for the Master Degree course in Statistics and business information systems *06/2007 - 10/2011*

**Member of the Quality Assurance Groups** of study programs for the master's degree in Computer Science *2016 - now*

**Manager** of the computer labs of the Ca' Foscari University of Treviso together with Prof. Pizzi *11/2008 - 07/2012*

#### University of Trieste

**Committee member** of the Orientation Commission of the Faculty of Sciences MM.FF.NN for the Degree Course in Computer Science *03/2005 - 11/2006*

**Collaborates in the establishment and management** of the new course computer science degree, "Audiovisual systems and networks - Music informatics", of the University of Trieste *2000 - 2006*

**Participates in the creation** of the new Computer science lab of the Faculty of Sciences of the University of Trieste. *2000*

### SELECTION COMMISSIONS AND PUBLIC COMPETITIONS

#### Ca' Foscari University of Venezia

Member of the commission for the state exams for the qualification to practice the profession of *Information engineer*, sections A and B of the register, held at the Ca' Foscari University, Venice  
Member for six different sessions *06/2011, 11/2011, 06/17, 11/2017, 06/2019, 11/2019*

Chairman of the commission for the assignment of a research grant lasting 24 months within the project PNRR, PE0000014 -Security and Rights in the CyberSpace (SERICS) - Prot n. 155923-III/13 del 28/06/2023 at DAIS. *13 and 20 July 2023*

Member of the commission for the degree awards in Informatics-Computer Science from the 2020/2021 summer session to the summer session 2021/2022. *16 Dec. 2022*

Substitute member of the project's *Interconnected Nord-Est Innovation Ecosystem (iNEST)* of PNRR doctoral scholarship commission. *24-25 Dec. 2022*

Committee member for the comparative procedure for the Senior Teaching Assistant position - A.Y. 2022/2023, Decree n. 940/2022 prot. 66990 of 7/7/2022, at the DAIS, Ca' Foscari University, Venice. *8/9/2022*

Substitute member of the selection commission for the admission to the PhD in Computer Science starting from October 2022 at the Ca' Foscari University of Venice. *6/2022*

President of the commission for the identification of resources for the Senior Teaching Assistant position - A.A. 2021/2022, Decrees - DAIS N. 1104/2021 Prot. n. N. 0098224 of 06/09/2021, at the DAIS, Ca' Foscari University, Venice. *9/2021*

Member of the selection commission for the admission to the PhD in Computer Science starting from October 2020 at the Ca' Foscari University of Venice. *7/2020*

President of the commission for the PhD in Computer Science defense, 30th cycle, at the Ca' Foscari University of Venice. *7/10/2018*

Member of the selection committee for two research grants at the Ca' Foscari University, Venice, Director's Decree n. 695/2018 del 08/06/2018. *9/5/2018*

Member of the selection commission for the call for a tutor position at the Department of Economics, Ca' Foscari, Venice. *2/2016*

Member of the selection commission for the a tutor position, prot. n 4733, 03/02/2015, at the Department of Economics, Università Ca' Foscari, Venezia. *2/2015*

Member of the commission for the awarding of the 12-month research grant Announced by decree Rep. 516/2014 Prot. n. 30693/III-13 of 07/16/2014 at the DAIS of Ca' Foscari, Venice, entitled: "Scalable methods for the management and analysis of space-time big data". *8/2014*

Committee member for the final PhD defense of Diego Marcheggiani, at Ca' Foscari, Venezia. *6/12/2014*

Committee member for the teacher selection for the "System administration laboratory" course at the DAIS of Ca' Foscari, Venice. *4/2014*

### **Competition commissions in other Italian universities**

Committee member in the evaluation procedure for the appointment of an associate professor position, art. 24, paragraph 5 bis, Law 30 December 2010, n. 240, at the "Tullio Levi-Civita" Mathematics Department for the competition sector 01/B1 - Computer Science. *dates to be defined*

Committee member in the selective evaluation procedure for 1 fixed-term researcher position, art. 24, paragraph 3, lett. a) of Law 240/2010 al Department of Computer Science "Giovanni Degli Antoni", University of Milan - competition sector 01/B1 - Computer science - SSD INF/01 - Computer science. *07 e 09/2020*

Committee member in the selective evaluation procedure for no. 1 position of Associate Professor S.S.D. INF/01 of the University of Verona, D.R. NO. 702-2014 of 14/3/2014. *05 and 06/2014*

Committee member in the comparative evaluation procedure to cover no. 1 researcher position for the sector INF/01-Informatics-Faculty of Sciences MM.FF.NN. of the University of Siena. D.R. NO. 397 dated 3/5/2006.

Committee member in the comparative evaluation procedure for no. 2 researcher position for the sector INF/01-Computer Science -Faculty of Sciences MM.FF.NN. of the University of Milan-Bicocca.D.R. NO. 2015 of 31 October 2002. *17-18 Dec. 2002*

### **PhD commissions in foreign universities**

External committee member for the defense of the doctoral thesis of Nokhanji Nooshin, at Carleton University in Ottawa, Canada, online discussion.

*09/2022*

## **RESEARCH ACTIVITY**

### **RISEARCH INTERESTS**

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Prof. Flaminia Luccio works in three different research areas: distributed algorithms and algorithms for mobile agents; analysis and verification of computer systems through the use of formal methods; usability and accessibility. The main lines of research are:

#### **Distributed Systems.**

**Routing algorithms** Study of different Compact Routing techniques, i.e., routing techniques whose aim is to minimize the execution time and the memory space required for communication in distributed systems. We consider existing techniques and analyse them in new different network topologies (rings, planar graphs, etc.), we also study new static and dynamic (i.e., for dynamically changing networks) techniques and compute their complexities.

**Fault-tolerant protocols for multicast in wireless networks** Study and analysis of new protocols for multicast in wireless networks. In these networks, users communicate by exchanging messages that travel from a cell of a wireless network to the hosts of a wired network and back to a new cell of the wireless network. The protocols have to be devised so to guarantee reliable communication even in a scenario where messages may get lost, hosts may crash, communication channels may temporally be disconnected, users may travel in zones where there is no roaming, etc. Interesting applications of these techniques are, e.g., in mobile phone communication, in traffic monitoring management.

**Computation of boolean functions** Study of efficient and correct techniques for the computation of boolean functions in ring networks. Every node of the network has a single bit as an input and the aim is to distributively compute functions that depend on this input.

#### **Mobile agents.**

**Analysis of mobile ambients** Formal study of time and space efficient algorithms for the Control Flow Analysis of mobile ambients. Production of a tool that executes these algorithms.

**Distributed algorithms** Consider networks where mobile agents collaborate in order to solve different problems.

- \* Study and analysis of different algorithms for the solution of the agent “rendezvous” problem, of broadcast, and of security related problems such as the capture of an intruder, i.e., a malicious entity that misbehaves, robot placement, broadcast, chatbot development, teaching with robots.
- \* Study of a new actor based model, based also on some formal hypermedial structures called “zigzag-structures”. This model has interesting applications in the field of grid computing, e-learning, virtual museum tours, etc..

### Security

**Analysis and verification of computer systems.** The goal of the research is to use rigorous methods to analyze the security of computer systems. In this way it is in fact possible to fully understand the security issues and develop tools that allow you to find attacks and/or validate real systems. We especially focus on the study of languages that have cryptographic primitives capable of modeling the “Security API” for managing bank PINs. We also analyze possible models that prevent real attacks on banking systems. We are also interested in the security of RFID devices and PUFs, network security from a theoretical point of view, and from a practical point of view. We are also studying the security of embedded systems.

**Usable security** In recent years we have also focused on usable security, that is, on making a system safe but usable at the same time. We focused on barcode security and usable and accessible authentication methods.

### Usability and accessibility.

**Accessibility rules and SW tools for disabled people** Study of accessibility rules for the development of websites and applications for disabled people and usable and accessible authentication methods.

## INTERNATIONAL AND NATIONAL SCIENTIFIC COLLABORATIONS

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**Distributed Algorithms.** On these issues he has collaborated and still collaborates with recognized international researchers such as:

- Danny Krizanc, Wesleyan University, U.S.A., Master’s and PhD thesis supervisor. Flaminia Luccio has received several visits from this professor in Trieste and Venice and has been invited to do research by this professor in Canada, even after the end of the PhD. They are coauthors of some Scopus indexed articles.
- Nicola Santoro, Carleton University, Ottawa, Canada. Flaminia Luccio she was invited by this professor to do research in Canada. They have worked together and are co-authors of some Scopus indexed articles.
- Evangelos Kranakis, Carleton University, Ottawa, Canada. Flaminia Luccio received a visit from this professor in Venice They have worked together and are co-authors of some Scopus indexed articles.
- Cyril Gavoille, Labri di Bordeaux, Francia. Flaminia Luccio she was invited by this professor to do research in France. They are co-authors of an article.
- David Peleg, Weizmann Institute, Israele, Jop Sibeyn, University of Halle, Germania, Rajeev Raman, University of Leicester, England, Giuseppe Anastasi, Università di Pisa e Alberto Bartoli Università di Trieste, with whom she is co-author of some Scopus-indexed articles.

**Distributed Algorithms for Mobile agents and mobile ambients.** On these issues he has collaborated and still collaborates with recognized international and national researchers such as:

- Paola Flocchini, University of Ottawa, Canada. Flaminia Luccio spent two research periods in Canada with Prof. Flocchini. They are coauthors of several Scopus indexed articles.
- Euripides Markou, University of Thessaly, Greece. Flaminia Luccio visited Prof. Markou at the University of Thessaly and received several visits from this professor in Venice. They are coauthors of some Scopus indexed articles.
- Shantanu Das, Aix-Marseille University, France. Flaminia Luccio he received several visits from this professor in Venice. They are coauthors of some Scopus indexed articles.
- Chiara Braghin Università di Milan, Carla Piazza Università di Udine, Agostino Cortesi e Riccardo Focardi, Università Ca’ Foscari Venezia, with whom she is co-author of some Scopus indexed articles.

Flaminia Luccio has participated in various research meetings with the aforementioned collaborators. Research with Prof. Markou and Das was also included in the Project “Distributed algorithms for autonomous mobile robots in the presence of a malicious agent”, of which Flaminia Luccio was coordinator.

**Computer security.** On these issues he has collaborated and actively collaborates with students of Ca' Foscari and with researchers such as:

- Graham Steel, ENS-Cachan/Cryptosense, Joshua Guttman WPI, Boston, Pedro Adão IST, TULisbon, Lisboa, Portugal, Pierpaolo Degano e Chiara Bodei, Università di Pisa, Riccardo Focardi, Matteo Centenaro e Matteo Busi, Alessia Michela Di Campi (her PhD student) Ca' Foscari University of Venice, with which she is co-author of some Scopus indexed articles.

**Usability and accessibility.** On these issues he has collaborated and actively collaborates with various Ca' Foscari master students and with researchers such as:

- Antonina Dattolo, Università di Udine, with which she is co-author of some Scopus-indexed articles.
- Alessia Michela Di Campi Ca' Foscari University of Venice, her PhD student.

## RESEARCH PROJECTS

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**Principal Investigator: AMADEUS “Automatic Modelling and verificAtion of Dedicated sEcUrity devices” Bando Prin 2022 PNRR** - Decreto Direttoriale n. 1409 del 14-09-2022 Settore ERC PE6 “Computer Science and Informatics”. General funding of the project of 224.461 Euro, for Unive 63.606 Euro. *From 30/11/2023 to 30/11/2025.*

**Principal Investigator: SCAI “Supply Chain Attack Avoidance”, within Spoke 6, Software and Platform Security (UNIVE), by SERICS Foundation** - Security and Rights in CyberSpace. **Funded by PNRR** (PNRR M4C2 Inv.1.3 PE - Extended Partnerships). Budget: approximately 3.2 million (million) euros. *From 1/1/2023 to 31/12/2025.*

**Scientific coordinator** of the Ca' Foscari University research group within the **project IRISS ID145 – UniKey**, selected by tender of the **SMACT Competence Center “Innovation, Industrial Research and Experimental Development” (IRISS)**. Proposing subject Keyline SpA. Funding of the Ca' Foscari University research group coordinated by Flaminia Luccio Euro 60.450,00 + IVA. *From 1/7/2020 to 31/12/2020*

**Scientific coordinator** of the research group for the project **“Cybersecurity in IOT Devices for smart building”** AVI/077A/19, winner of the **Fondimpresa Call 1/2019 “Digital and/or technological innovation”**. The project supports digital and technological product or process innovation in associated companies, and was presented by Confindustria Veneto SIAV Spa obtaining a total funding of Euro 105,600 and a Unive share of Euro 30.000. *From 11.6.2020 to 31/12/2021*

**Principal Investigator** of the project **“Distributed algorithms for autonomous mobile robots in the presence of a harmful agent”**. The project was financed, on the basis of a **Bando Iride** (with revision), by the Ca' Foscari University of Venice. Funding was awarded to conduct a study on distributed algorithms for coordinating robots in hostile environments. The research was conducted in collaboration with professors Shantanu Das of the University of Aix-Marseille, France and prof. Euripides Marcou of the University of Thessaly, Greece. The following publication was produced from the research and others are in progress. **“Broadcasting with Mobile Agents in Dynamic Networks”**. S. Das, N. Giachoudis, FL Luccio and E. Markou. In the Proceedings of the 24th International Conference on Principles of Distributed Systems (OPODIS 2020), Volume 184, p. 24:1–24:16, LIPIcs, 14-16 December 2020 online, ISBN 978-3-95977-176-4, ISSN 1868-8969 Budget: 3330 Euros, 2019-2020. *From 01/04/2019 to 30/09/2020 (18 months)*

**Scientific manager** of a contract for **THIRD PARTY CONTRACT with BFT SpA**, within the research project **“Securing Smartbuilding Devices (SD2)”**, POR FESR 2014-2020 Action 1.1.4, approved by DAIS decree, file no. 632/2020, Protocol no. 32327 of the 25/06/2020.

Participation to: iNEST “Interconnected NordEst Innovation Ecosystem”, funded by PNRR (Mission 4.2, Investment 1.5), NextGeneration EU-Project ID: ECS00000043. Participant since September 2022.

Participation to: **“SAFE PLACE “Sistemi IoT per ambienti di vita salubri e sicuri”** Project ID: 10288513, POR FESR VENETO 2014-2020. Participant since 2021.

Participation to: **“SISTEMA DOMOTICO IoT INTEGRATO AD ELEVATA SICUREZZA INFORMATICA PER SMART BUILDING”**. Progetto di Ricerca e Sviluppo sviluppato dai Distretti Industriali e dalle Reti Innovative Regionali. DGR N.1139/2017, years 2017-2019.

Participation to: **“Additive Manufacturing and Industry 4.0 as innovation Driver (ADMIN4D)”**. Progetto di Ricerca e Sviluppo sviluppato dai Distretti Industriali e dalle Reti Innovative Regionali. DGR N.1139/2017, years 2017-2019.

Participation to: “ADAPT - Accessible Data for Accessible Proto-Types in Social Sector”. 2016-2018.

Participation to: MAE-MIUR JOINT MOBILITY PROGRAM PROG. “Formal Specification for Secured Software System”. Exchange research project between Italy and India. Member for the Italian Unity of Venice together with Prof. Cortesi (coordinator) and Prof. Focardi, years 2017 - 2019.

Participation to: MIUR-DAAD JOINT MOBILITY PROGRAM PROG. N. 57268635 CLIENT-SIDE SECURITY ENFORCEMENT FOR MOBILE AND WEB APPLICATIONS. Exchange research project between the University of Venice and the Saarland University, Saarbrücken, Germany. Member for the Italian Unity of Venice together with Prof. Focardi (coordinator) and Stefano Calzavara, years 2016-2017.

Participation to: FilieraSicura: Securing the Supply Chain of Domestic Critical Infrastructures from Cyber Attacks. Funded by CISCO. National coordinator Prof. Baldoni. Member for the Unity of Venice together with Prof. Focardi (local coordinator) and Prof. Cortesi. Duration 3 years. Indicative start January 2017.

Participation to: the national Cybersecurity lab and part of the PhD in Cybersecurity board since 11/1/2022.

**Coordinator of the project: University call MOOC Ca’ Foscari** for the development of the on-line course *Introduction to Computer Science* together with Prof. Andrea Albarelli and Renzo Orsini. 2015-16, 2016-17, 2017-18.

**Coordinator of the project: “Studiare x apprendere”**, for an on-line tutor and 8 didactical blended units for the courses Elementi di Informatica per l’Economia, degree in Economia e Commercio, University Ca’ Foscari of Venice. A.Y. 2013-14, 2014-15, 2015-16.

Participation to: Italian M.U.R.S.T Project *Security Horizons*, national coordinator Prof. Pierpaolo Degano, years 2010-11.

Participation to: the Sardinia region research project TESLA - Tecniche di Enforcement per la Sicurezza dei Linguaggi e delle Applicazioni - 2010.

Participation to: Italian M.U.R.S.T Project *SOFT - Tecniche formali orientate alla sicurezza*, national coordinator Prof. Riccardo Focardi (years 2007-2008).

**Research Funding Fondo di ricerca di ateneo/ADIR of the University Ca’ Foscari Venice, years 2007-2022.**

Participation to: Italian M.U.R.S.T Project *AIDA - Interpretazione Astratta: Progettazione e Applicazioni*, national coordinator Prof. Roberto Giacobazzi (years 2004-2005).

**Funding coordinator from the “Gruppo Nazionale per il Calcolo Scientifico (GNCS)”** for the presentation of a research work at the “10th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2003)”, at Umea, Sweden. 2003.

Participation to: Research project *Matematica per le scienze e la tecnologia* of the University of Trieste, years 1999-2001.

Participation to: Italian M.U.R.S.T Project *Metodi e Problemi in Analisi Reale*, national coordinator Prof. Paolo De Lucia (years 1999-2000).

Participation to: Research project *Sistemi Complessi* of the University of Trieste, year 1998.

Participation to: Italian M.U.R.S.T Project *Analisi Reale*, national coordinator Prof. Paolo De Lucia (years 1997-1998).

## ORGANIZATION OF INTERNATIONAL CONFERENCES AND WORKSHOPS

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### Organizing Committees

- Organizing Committee Member of the *First Italian Conference on Cybersecurity (ItaSec2017)*, Venice, 17-20 January 2017, Venice, Italy.
- Organizer of the *Workshop on mobile agents and robots (WMAR’15)*, January 28th, 2015, Venice, Italy.
- Organizing Committee Chair of the *Sixth International Conference on Fun with algorithms (FUN’10)*, 4-6 giugno, 2012 San Servolo Island, Venice, Italy
- “Local Arrangements Co-Chair” of *The Second International Conference on Security and Privacy in Mobile Information and Communication Systems (MobiSec’10)*, Catania, Italy, May 26-28, 2010.
- “Local Arrangements Co-Chair” of *The First International Conference on Security and Privacy in Mobile Information and Communication Systems (MobiSec’09)*, Turin, Italy, June 3-5, 2009.
- Organizing Committee Member of *Informatics Education Europe III (IEEIII’08)*, Venice, Italy, December 4-5, 2008.

- Organizing Committee Member *20th IEEE Computer Security Foundations Symposium* (CSF'07) isola di S. Servolo, Venezia, Italy, July 6-8, 2007.
- Organizing Committee Member of *19th IEEE Computer Security Foundations Workshop* (CSFW'06) isola di S. Servolo, Venezia, Italy, July 5-7, 2006.
- Organizing Committee Member of *1st Colloquium on Structural Information and Communication Complexity* (SIROCCO'94), Ottawa, Ontario, Canada, May 18-20, 1994.

#### **Steering Committees**

- Steering Committee member of the *International Conference on Advances in Computer-Human Interactions, ACHI series*, IARIA.

#### **Program Committees Chair**

- Posters Chair of *The 2024 International Conference on Innovations in Computing Research* (ICR'24), August 12-14, Athens, Greece, 2024.
- Sessions/Workshops Co-Chair of *The 2023 International Conference on Security and Management* (SAM'24), July 22-25, 2024, Las Vegas, USA.
- Posters Chair of *The 2023 International Conference on Innovations in Computing Research* (ICR'23), September 4-6, 2023, Madrid, Spain.
- Sessions/Workshops Co-Chair of *The 2023 International Conference on Security and Management* (SAM'23), Las Vegas, USA.
- Posters Chair of *The 2022 International Conference on Innovations in Computing Research* (ICR'22), August 29-31, 2022, Athens, Greece.
- Sessions/Workshops Co-Chair of *The 2022 International Conference on Security and Management* (SAM'22), Las Vegas, USA.
- Sessions/Workshops Co-Chair of *The 2021 International Conference on Security and Management* (SAM'21), July 26-29, 2021, Las Vegas, USA.
- Sessions/Workshops Co-Chair of *The 2020 International Conference on Security and Management* (SAM'20), July 27-30, 2020, Las Vegas, USA.
- Sessions/Workshops Co-Chair of *The 2019 International Conference on Security and Management* (SAM'19), July 29- August 1, 2019, Las Vegas, USA.
- Sessions/Workshops Co-Chair of *The 2018 International Conference on Security and Management* (SAM'18), July 30- August 2, 2018, Las Vegas, USA.
- Sessions/Workshops Co-Chair of *The 2017 International Conference on Security and Management* (SAM'17), July 17-20, 2017 Las Vegas, USA.
- Sessions/Workshops Co-Chair of *The 2016 International Conference on Security and Management* (SAM'16), July 25-28, 2016, Las Vegas, USA.
- Sessions/Workshops Co-Chair of *The 2015 International Conference on Security and Management* (SAM'15), July 27-30, 2014, Las Vegas, USA.
- Sessions/Workshops Co-Chair of *The 2014 International Conference on Security and Management* (SAM'14), July 21-24, 2014, Las Vegas, USA.
- Sessions/Workshops Co-Chair of *The 2013 International Conference on Security and Management* (SAM'13), Las Vegas, USA, June 16 - 19, 2013.
- Technical Program Co-Chair of the *Sixth International Conference on Fun with algorithms* (FUN'12), 4-6 giugno, 2012 San Servolo Island, Venice, Italy.
- Special Sessions Chair of *The forth International Conference on Security and Privacy in Mobile Information and Communication Systems* (MobiSec'12), Frankfurt, Germany, June 25-27, 2012.
- Technical Program Co-Chair of *The Third International Conference on Security and Privacy in Mobile Information and Communication Systems* (MobiSec'11), Aalborg, Denmark, May 17-19, 2011.

#### **”Participation to program committees** In the program committee of:

- *37th IEEE Computer Security Foundations Symposium* (CSF'24), Enschede, The Netherlands, July 8-12, 2024.
- *The 8th International Conference on Human Computer Interaction Theory and Applications* (HUCAPP'24), Roma, Italy, 27-29 February 2024.
- *The 10th International Conference on Information Systems Security and Privacy* (ICISSP'24), Roma, Italy, 26-28 February 2024.

- *The 14th International Conference on Advances in Information Mining and Management (IMMM'24)*, April 14 - 18, 2024, Venice, Italy.
- *The 17th International Conference on Advances in Computer-Human Interactions (ACHI'24)*, May 26 - 30, 2024, Barcelona, Spain.
- *36th IEEE Computer Security Foundations Symposium (CSF'23)* Dubrovnik, Croatia, July 7-10, 2023.
- *The 17th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE'23)*, September 25-29, 2023, Porto, Portugal.
- *The 17th International Conference on Sensor Technologies and Applications (SENSORCOMM 2023)*, September 25-29, 2023, Porto, Portugal.
- *The 13th International Conference on Advances in Information Mining and Management (IMMM'23)*, June 26 - 30, 2023, Nice, Saint-Laurent-du-Var, France.
- *The 16th International Conference on Advances in Computer-Human Interactions (ACHI'23)*, April 24-28, 2023, Venice, Italy.
- *The 22nd International Conference on Computer Information Systems and Industrial Management Applications (CISIM'23)*, Tokyo, Japan, September 22-24, 2023
- *2023 IEEE International Conference on Cyber Security and Resilience (IEEE CSR'23)*, Venice, Italy, July 31, August 2, 2023.
- *International Symposium on Algorithmics of Wireless Networks (ALGOWIN'23)*, Amsterdam, The Netherlands, 7-8 September 2023.
- *The 2023 International Conference on Security and Management (SAM'23)*, Las Vegas, USA, July 24-27, 2023.
- *The 2023 International Conference on Innovations in Computing Research (ICR'23)*, Madrid, Spain, September 4-6, 2023.
- *The 8th International Conference on Human Computer Interaction Theory and Applications (HUCAPP'23)*, 19-21 February 2023, Lisbon, Portugal.
- *The 9th International Conference on Information Systems Security and Privacy (ICISSP'23)*, 16-18 February 2023, Lisbon, Portugal.
- *Serious Games to Improve Quality of Life (SGIQL'22)* Special track at ACM International Conference on Information Technology for Social Good, September 7-9th, 2022, Limassol, Cyprus.
- *The 16th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2022)*, October 16-20, 2022, Lisbon, Portugal.
- *The 16th International Conference on Sensor Technologies and Applications (SENSORCOMM 2022)*, October 16-20, 2022, Lisbon, Portugal.
- *21th International Conference on Computer Information Systems and Industrial Management Applications (CISIM'22)*, July 15-17, Barranquilla, Colombia, 2022.
- *The 12th International Conference on Advances in Information Mining and Management (IMMM'22)*, June 26, 2022 to June 30, 2022, Porto, Portugal.
- *The 15th International Conference on Advances in Computer-Human Interactions (ACHI'22)*, June 26-30, 2022, Porto, Portugal.
- *The 7th International Conference on Human Computer Interaction Theory and Applications (HUCAPP'22)*, 6-8 February 2022, online.
- *The 8th International Conference on Information Systems Security and Privacy (ICISSP'22)*, 9-11 February 2022, online.
- *The 21st International Conference on Computer Information Systems and Industrial Management Applications (CISIM'22)*, July 15-17, Barranquilla, Colombia, 2022.
- *The 15th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2021)*, November 14 - 18, 2021, Athens, Greece.
- *The 15th International Conference on Sensor Technologies and Applications (SENSORCOMM 2021)*, November 14 - 18, 2021, Athens, Greece.
- *The 11th International Conference on Advances in Information Mining and Management (IMMM 2021)*, May 30, 2021 - June 03, 2021, Valencia, Spain.
- *Serious Games to Improve Quality of Life (SGIQL'21)* Special track at ACM International Conference on Information Technology for Social Good, 9-11 September 2021, Rome, Italy.

- *The 7th International Conference on Information Systems Security and Privacy (ICISSP 2021)*. Vienna, Austria, 11-13 February 2021.
- *20th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2021)*, Etk , Poland, September 24-26, 2021.
- *The 5th International Conference on Human Computer Interaction Theory and Applications (HUCAPP 2021)*, Vienna, Austria, 8-10 February 2021.
- *The Fourteenth International Conference on Advances in Computer-Human Interactions (ACHI 2021)* July 18-22, 2021, Nice, France
- *The 10th International Conference on Advances in Information Mining and Management (IMMM 2020)*, September 27 - October 01, 2020, Rome, Italy.
- *19th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2020)*, Bialystok, Poland, June 12-14, 2020.
- *The 21st Italian Conference on Theoretical Computer Science (ICTCS 2020)*, 14-16 September 2020, Ischia, Italy.
- *The 14th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2020)*, November 15-20, 2020, Valencia, Spain.
- *The 14th International Conference on Sensor Technologies and Applications (SENSORCOMM 2020)* November 15-20, 2020, Valencia, Spain.
- *6th EAI International Conference on Smart Objects and Technologies for Social Good (GOODTECHS 2020)*, September 14-16, 2020 online.
- *Serious Games to Improve Quality of Life (SGIQL 20)*, Special Session of the 6th EAI International Conference on Smart Objects and Technologies for Social Good (GOODTECHS 2020), September 14-16, 2020 online.
- *The Thirteenth International Conference on Advances in Computer-Human Interactions (ACHI 2020)*, November 21-25, 2020, Valencia, Spain.
- *The 6th International Conference on Information Systems Security and Privacy (ICISSP 2020)*. Valletta, Malta, 25-27 February 2020.
- *The 4th International Conference on Human Computer Interaction Theory and Applications (HUCAPP 2020)*, Valletta, Malta, 27-29 February 2020.
- *5th EAI International Conference on Smart Objects and Technologies for Social Good (GOODTECHS 2019)*, September 25-27, 2019 Valencia, Spain.
- *Serious Games to Improve Quality of Life (SGIQL 19)*, Special Session of the 5th EAI International Conference on Smart Objects and Technologies for Social Good, September 25-27, 2019 Valencia, Spain.
- *18th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2019)*, Belgrade, September 19-21, 2019.
- *The 13th International Conference on Sensor Technologies and Applications (SENSORCOMM 2019)* October 27-31, 2019, Nice, France.
- *The 13th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2019)*, September October 27-31, 2019, Nice, France.
- *The Twelfth International Conference on Advances in Computer-Human Interactions (ACHI 2018)*, February 24-28, 2019, Athens, Greece.
- *The 3rd International Conference on Human Computer Interaction Theory and Applications (HUCAPP 2019)*, Prague, Czech Republic, 25-27 February 2019.
- *The 5th International Conference on Information Systems Security and Privacy (ICISSP 2019)*. Prague, Czech Republic, 23-25 February 2019.
- *20th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS 2018)*, Nov 4-7, 2018, Tokyo, Japan.
- *The 9th International Conference on Advances in Information Mining and Management (IMMM 2019)*, July 28 - August 02, 2019, Nice, France.
- *Serious Games to Improve Quality of Life (SGIQL 18)*, Special Session of the 4th EAI International Conference on Smart Objects and Technologies for Social Good, November 28-30, 2018 Bologna, Italy.
- *4th EAI International Conference on Smart Objects and Technologies for Social Good (GOODTECHS 2018)*, November 28-30, 2018 Bologna, Italy.



- *19th Italian Conference on Theoretical Computer Science (ICTCS18)* 18-20 September 2018, Urbino, Italy.
- *16th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2018)*, Olomouc, Czech Republic, September 27-29, 2018.
- *The 12th International Conference on Sensor Technologies and Applications (SENSORCOMM 2018)* September 16-20, 2018, Venice, Italy.
- *The 12th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2018)*, September 16-20, 2018, Venice, Italy.
- *The 8th International Conference on Computer Science and Information Technology (CSIT 2018)*, July 11-12, 2018, Amman, Jordan.
- *31st IEEE Computer Security Foundations Symposium (CSF)*, 9-12 July 2018, Oxford, UK, colocated FLOC 2018.
- *The 9th International Conference on Fun with Algorithms (FUN 2018)*, June 13-15, 2018, Isola della Maddalena, Italy.
- *The 8th International Conference on Advances in Information Mining and Management (IMMM 2018)*, July 22-26, 2018, Barcelona, Spain.
- *The Eleventh International Conference on Advances in Computer-Human Interactions (ACHI 2018)*, March 25 - 29, 2018, Rome, Italy.
- *The 2nd Italian Conference on Cyber Security (ITA-SEC 2018)*, Milan, 6-9 February 2018.
- *The 4th International Conference on Information Systems Security and Privacy (ICISSP 2018)*, Funchal, Madeira, Portugal, 22-24 January 2018.
- *The 2nd International Conference on Human Computer Interaction Theory and Applications (HUCAPP 2018)*, Funchal, Madeira, Portugal, 27-29 January 2018.
- *Serious Games to Improve Quality of Life (SGIQL 17), Special Session of the 3rd EAI International Conference on Smart Objects and Technologies for Social Good* Pisa, Italy, November 29 - 30, 2017.
- *The Eleventh International Conference on Sensor Technologies and Applications (SENSORCOMM 2017)* September 10 - 14, 2017 - Rome, Italy.
- *The Eleventh International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2017)* September 10 - 14, 2017 - Rome, Italy.
- *16th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2017)*, Bialystok, Poland, June 16-18, 2017.
- *The 3rd International Conference on Information Systems Security and Privacy (ICISSP 2017)*, Porto, Portugal, 19-21 February 2017.
- *The 7th International Conference on Advances in Information Mining and Management (IMMM 2017)*, June 25 - 29, 2017- Venice, Italy.
- *The International Conference on Human Computer Interaction Theory and Applications, (HUCAPP 2017)* February 27 - March 2, 2017, Porto, Portugal.
- *The Italian Conference on Cyber Security (ITA-SEC 2017)*, Venice 17-20 January 2017.
- *The Tenth International Conference on Advances in Computer-Human Interactions (ACHI 2017)* March 19 - 23, 2017 - Nice, France.
- *The 15th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2016)* Vilnius, Lithuania, September 14 - 16, 2016.
- *The 9th International Symposium on Foundations & Practice of Security (FPS 2016)*, October 24-26 2016, Quebec City, Canada.
- *The International Conference on Human Computer Interaction Theory and Applications (HUCAPP 2016)*, 27 February - 1 March, 2017, Porto, Portugal.
- *The 15th International Conference on 'Ad-Hoc, Mobile and Wireless Networks (ADHOC-NOW 2016)*, July 4th to 6th 2016 in Lille, France.
- *Ninth International Conference on Emerging Security Information, Systems and Technologies (SECURWARE 2016)*, July 24 - 28, 2016, Nice, France.
- *The Ninth International Conference on Advances in Computer-Human Interactions (ACHI 2016)*, April 24 - 28, 2016 - Venice, Italy.
- *The Sixth International Conference on Advances in Information Mining and Management (IMMM 2016)*, May 22 - 26, 2016 - Valencia, Spain.

- *2nd International Conference on Information Systems Security and Privacy* (ICISSP 2016), Rome, Italy, 19-21 February 2016.
- *8th International Symposium on Foundations & Practice of Security* (FPS 2015), 26-28 October 2015 Clermont-Ferrand, France.
- *Special track on “Distributed Computing with Mobile Agents”, part of the International Conference on “Ad-Hoc, Mobile and Wireless Networks”* (ADHOC-NOW 2015), June 29-July 02, 2015, Athens, Greece.
- *16th Italian Conference on Theoretical Computer Science* (ICTCS 2015), September 9-11, Florence, Italy.
- *17th International Symposium on Stabilization, Safety, and Security of Distributed Systems* (SSS 2015), Edmonton, Canada, 18-21 August 2015.
- *14th International Conference on Information Systems and Industrial Management Applications* (CISIM 2015), September 24-26, 2015, Warsaw, Poland.
- *The Ninth International Conference on Emerging Security Information, Systems and Technologies* (SECUREWARE 2015), August 23-28, 2015, Venice, Italy.
- *The 2015 International Conference on Advanced Intelligent Mobile Computing* (AIM 2015), February 24-26, 2015, Jeju, Korea.
- *The Fifth International Conference on Advances in Information Mining and Management* (IMMM 2015), June 21 - 26, 2015, Brussels, Belgium.
- *1st International Conference on Information Systems Security and Privacy* (ICISSP 2015), 9-11 February 2015, ESEO, Angers, Loire Valley, France.
- *The Eighth International Conference on Emerging Security Information, Systems and Technologies* (SECURWARE 2014), part of NetWare 2014, November 16 - 20, 2014, Lisbon, Portugal.
- *The FTRA 10th International Symposium on Wireless sensor network Technologies and Applications* (WTA 2014), August 21-23, 2014, Krakow, Poland.
- *The 2014 International Workshop on Advanced Multimedia Computing* (AMC14), April 23-25, 2014, Busan, Korea.
- *13th International Conference on Information Systems and Industrial Management Applications* (CISIM 2014), November 5-7, 2014, Ho Chi Minh City, Vietnam.
- *The forth International Conference on Advances in Information Mining and Management* (IMMM 2014), July 20-24, 2014, Paris, France.
- *The Seventh International conference on Fun with Algorithms* (FUN 2014), July 1-3, 2014, Lipari Island, Sicily, Italy.
- *The 2014 International Conference on Creative Converged IT* (CCIT 2014), Daejeon, Korea, April 9-12, 2014.
- *The 2014 FTRA International Symposium on Advances in Bio-inspired Computing* (Bio-Health Com 2014), Daejeon, Korea, April 9-12, 2014.
- *The 4th FTRA International Conference on Advanced IT, engineering and Management* (FTRA AIM 2014), Jeju, Korea, February 19-22, 2014.
- *The FTRA 2013 International Symposium on Ubiquitous Computing and Embedded Systems* (UCES-13), Danang, Vietnam, December 18 - 21, 2013.
- *The Third International Conference on Advances in Information Mining and Management* (IMMM 2013), November 17 - 22, 2013 - Lisbon, Portugal.
- *The International Conference on Soft Computing Techniques and Engineering Application* (SCTEA 2013), September 25-27, 2013, Kunming, China.
- *12th International Conference on Information Systems and Industrial Management Applications* (CISIM 2013), September 25-27 2013, Krakow, Poland.
- *The FTRA 9th International Symposium on Wireless sensor network Technologies and Applications for Smart Space* (WTA 2013), Gwangju, Korea, September 4-6, 2013.
- *The International Conference on Privacy and Security in Mobile Systems* (PRISM 2013), 24 - 27 June 2013, Atlantic City, NJ, USA.
- *The 2013 FTRA International Conference on Advanced IT, Engineering and Management* (FTRA AIM-13) Seoul, Korea, February 21-23, 2013.
- *The 8th International Symposium on Wireless sensor network Technologies and Applications for Smart Space* (WTA 2012) Jeju, Korea, November 22-25, 2012.

- *The 2012 FTRA International Conference on Advanced IT, engineering and Management* (FTRA AIM Summer 2012), Jeju, Korea, July 10-12, 2012.
- *FTRA International Conference on Advanced IT, engineering and Management* (AIM 2012), Seoul, Korea, February 6-8, 2012.
- *1st International Workshop on Cybersecurity of Online Social Networks* (CSOSN 2012), 26-29 August 2012, Istanbul, Turkey.
- *Sixth International Conference on Fun with algorithms* (FUN'12), 4-6 giugno, 2012 San Servolo Island, Venice, Italy.
- *The forth International Conference on Security and Privacy in Mobile Information and Communication Systems* (MobiSec'12), Frankfurt, Germany, June 25–27, 2012.
- *The 7th International Symposium on Wireless sensor network Technologies and Applications for Smart Space* (WTA 2011), Jeju, Korea, December 12-15 2011.
- *The Third International Conference on Security and Privacy in Mobile Information and Communication Systems* (MobiSec'11), Aalborg, Denmark, May 17-19, 2011.
- *The Second International Conference on Security and Privacy in Mobile Information and Communication Systems* (MobiSec'10), Catania, Italy, May 26-28, 2010.
- *Informatics Education Europe IV* (IEEIV'09), Freiburg, Germany, November 5-6, 2009.
- *The First International Conference on Security and Privacy in Mobile Information and Communication Systems* (MobiSec'09), Turin, Italy, June 3-5, 2009.
- *Fifth International Workshop on Algorithmic Aspects of Wireless Sensor Networks* (Algosensor'09), Rhodes, Greece, July 11th, 2009.
- *Informatics Education Europe III* (IEEIII'08), Venice, Italy, December 4-5, 2008.
- *13-th International Colloquium on Structural Information and Communication Complexity* (SIROCCO'06), Chester, United Kingdom, June 3-5, 2006.
- *The Ninth Italian Conference on Theoretical Computer Science* (ICTCS 2005), Certosa di Pontignano, Siena, Italy, October 12-14, 2005.

## RESEARCH DUTIES IN INTERNATIONAL INSTITUTIONS

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- Research activity during the PhD with Prof. Cyril Gavoille at the l'École Normale Supérieure (ENS) de Lyon, France, April-May 1996.
- Research activity during the PhD with Prof. Danny Krizanc at the Carleton University di Ottawa, Canada and with Prof. Paola Flocchini at the University of Montreal, Canada, October-November 1997.
- Research activity during the PhD with il Prof. Cyril Gavoille at the Laboratoire Bordelais de Recherche en Informatique (LABRI), Université de Bordeaux, May 1998.
- Research activity with Prof. Danny Krizanc and Nicola Santoro at the Carleton University di Ottawa, April 1999.
- Research activity with Prof.ssa Paola Flocchini at the University of Ottawa, Ottawa, Canada, April 2003.
- Research activity with Prof. Matteo Maffei at the Center for IT-Security, Privacy and Accountability (CISPA), Saarbrücken, Germany, 19-22 October 2016.
- Research activity with Euripides Markou at the University of Thessaly, Greece, 14-17 May 2017.

## INVITED SPEAKER

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- **Invited speaker.** “Mobile Agents”. F.L. Luccio (joint work with P.Flocchini). Relazione su invito, presentata a *Workshop on Computations by Mobile Entities (Agents, Robots, Sensors)*, scuola di dottorato Galileo Galilei, Dipartimento di Informatica, University of Pisa, Italy, 11-15 June 2007.
- **Invited speaker.** “Cracking bank PINs by playing Mastermind”. F.L. Luccio (joint work with R. Focardi). Invited talk, presented at *WSOFT Meeting* Pisa, Italy, June 25-26, 2010.
- **Invited speaker.** “PIN Cracking is a Guessing Game”. F.L. Luccio. Invited talk, presented at *Santa's Crypto Get-Together 2013*, Prague, Czech Republic, November 28-29, 2013.

- **Invited speaker.** “La codifica dell’informazione nel calcolatore”. F.L. Luccio. Invited seminar, Gorizia, Italy, February 10, 2015.
- **Invited speaker.** “La struttura hardware del calcolatore e la sicurezza informatica”. F.L. Luccio. Invited seminar, Gorizia, Italy, February 11, 2015.
- **Invited panelist.** “The role of adaptive mobile dedicated applications in the learning process of users with Autism Spectrum Disorders (ASD). F. L. Luccio. Invited panelist at the *9th International Conference on Advances in Computer-Human Interactions (ACHI '16)*, Venice, Italy.
- **Invited speaker.** “Gathering of Robots in a Ring with Mobile Faults: From theory to practice.” F.L. Luccio. Invited talk, presented at *Moving and Computing (MAC)*, *6th Research Meeting on Distributed Computing by Mobile Robots*, September 26th, 2016, Paris, France.
- **Invited speaker.** “Graph Exploration with Deadlines” F.L. Luccio (joint work con Shantanu Das, Nikos Giachoudis, Euripides Markou). Invited talk, presented at *8th Moving and Computing (MAC)*, *Research Meeting on Distributed Computing by Mobile Robots*, September 19-22, 2022, Pisa, Italy.

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## INVITED PARTICIPATION TO INTERNATIONAL RESEARCH MEETINGS

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- Invited to participate to the **8th Moving and Computing (MAC)**, **Research Meeting on Distributed Computing by Mobile Robots**, September 19-22, 2022, Pisa, Italy.
- Invited to participate to the **6th Research Meeting on Distributed Computing by Mobile Robots**, September 26th, 2016, Paris, France.
- Invited to participate to the “**Research Meeting on Distributed Computing by Mobile Robots**”, Ischia, Italy, July 3-5, 2013.
- Invited to participate to the “**Dagstuhl Seminar on Analysis of Security APIs**”, LZI Schloss Dagstuhl, Germany, Nov. 2012.
- Invited by Prof. E. Kranakis to participate to the **1st workshop on open problems in algorithmics (Anogia Algorithmica)**, Anogia Academic Village, Creta, May 30-June 2, 2005.
- Invited to participate to the **1st Cristal Ball Workshop on Security and Privacy**, IBM Zurich Research Lab, Zurigo, January 20, 2005.
- Invited by Prof. E. Kranakis to participate to the research meeting **International workshop on Mobile Agent Computing (MAC’04)**, Isola d’Elba, Italy, May 24-25, 2004.
- Invited to participate to the **Advanced Research School on Structural Information and Communication**, Pontignano (SI), Italy, June 16-20, 1997.

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## SPEAKER AND PARTICIPANT IN MEETINGS AND CONFERENCES

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- *27th European Symposium on Research in Computer Security (ESORICS’22)*, Copenhagen, Denmark 26-30/09/2022.
- *ACM Conference on Computer and Communications Security (ACM CCS’21)* 15-19/12/2021, Virtual conference.
- *International Workshop on Protocols, Strands, and Logic Essays Dedicated to Joshua Guttman on the Occasion of his 66.66th Birthday*, Haifa, Israel, 11-12/08/2022 and online.
- *24th International Conference on Principles of Distributed Systems (OPODIS 2020)*, 14-16/12/2020. Online.
- *6th EAI International Conference on Smart Objects and Technologies for Social Good (GOODTECHS 2020)*, September 14-16, 2020 online (speaker).
- *33rd IEEE Computer Security Foundations Symposium (CSF’20)* June 22-26, 2020 - Online.
- *4th EAI International Conference on Smart Objects and Technologies for Social Good (Goodtechs 2018)*. November 28-30, 2018 Bologna, Italy (speaker).
- *19th Italian Conference on Theoretical Computer Science (ICTCS18)* 18-20 September 2018, Urbino, Italy.
- *3rd EAI International Conference on Smart Objects and Technologies for Social Good (Goodtechs 2017)*. November 29-30 2017, Pisa, Italy (speaker).

- *2nd EAI International Conference on Smart Objects and Technologies for Social Good* (Goodtechs 2016). November 30 - December 1, 2016, Venice, Italy (speaker).
- *17th Italian Conference on Theoretical Computer Science* (ICTCS 2016). Lecce, Italy, September 7-9th 2016.
- *29th IEEE Computer Security Foundations Symposium* (CSF 2016), June 27-July 1, 2016, Lisboa, Portugal
- *Ningth International Conference on Advances in Computer-Human Interactions* (ACHI 2016) April 24-28, 2016, Venice, Italy (speaker).
- *11th International Symposium on Algorithms and Experiments for Wireless Sensor Networks* (Algosensors 2015), 17 -18 September, Patras, Greece (speaker).
- *8th International Workshop on Analysis of Security APIs* (ASA 2015), Satellite workshop of IEEE CSF July 13th 2015, Verona, Italy.
- *Eighth International Conference on Advances in Computer-Human Interactions* (ACHI 2015) February 22 - 27, 2015, Lisbon, Portugal (speaker).
- *Seventh International Conference on Fun with algorithms* (FUN'14), 1-3 luglio, 2014 Lipari Island, Italy.
- *Sixth International Conference on Fun with algorithms* (FUN'12), 4-6 giugno, 2012 San Servolo Island, Venice, Italy.
- *Fifth International Conference on Fun with algorithm* (FUN'10), 2-4 giugno, 2010 Ischia Island, Italy.
- *The First International Conference on Security and Privacy in Mobile Information and Communication Systems* (MobiSec'09), Torino, Italia, 3-5 giugno 2009.
- *Meeting PRIN Project SOFT - Tecniche formali orientate alla sicurezza*, Bologna, Italy, December 3rd 2009.
- *4th International Conference on Web Information Systems and Technologies (WEBIST)*, May 4-7, 2008, Funchal-Madeira, Portugal (speaker).
- *International Miniworkshop, Computations by Mobile Entities (Agents, Robots, Sensors)*, June 11-15, 2007, Pisa, Italy (speaker).
- *14th Colloquium on Structural Information and Communication Complexity* (SIROCCO'07), June 5-8 2007, Castiglioncello (LI), Tuscany, Italy.
- *Fourth International Conference on Fun with algorithms* (FUN07), June 3-5, 2007, Castiglioncello (LI), Tuscany, Italy (speaker).
- *2nd Meeting del Progetto AIDA* Pisa, February 16-17, 2006.
- *The Ninth Italian Conference on Theoretical Computer Science* (ICTCS 2005), Certosa di Pontignano, Siena, October 12-14, 2005.
- *1st workshop on open problems in algorithmics* Anogia Algorithmica, Anogia Academic Village, Creta, May 30 - June 2, 2005.
- *1st Meeting del Progetto AIDA* Verona, February 7, 2005.
- *1st Cristal Ball Workshop on Security and Privacy* IBM Zurich Research Lab, Zurigo, January 20, 2005.
- *Workshop on Genomes: Information, Structure, and Complexity* (GISC'04), Dobbiaco (BZ), September 25, 2004.
- *11th Colloquium on Structural Information and Communication Complexity* (SIROCCO'04), Smolenice Castle, Slovakia, June 21-23, 2004 (speaker).
- *International Workshop on Mobile Agent Computing (MAC'04)*, Isola d'Elba, May 24-25, 2004.
- *Third International Conference on Fun with Algorithms (FUN'04)*, Isola d'Elba, May 26-28, 2004.
- *10-nth Colloquium on Structural Information and Communication Complexity* (SIROCCO'03), Umea, Svezia, June 2003 (speaker).
- *4-th International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI'03)*, New York University, New York, U.S.A., January 9-11, 2003.
- *International Processing and Management of Uncertainty (IPMU'02)*, Annecy, France, July 1-5 2002 (speaker).
- *Networking'02*, Pisa, Italy, May 19-24, 2002.
- *International Conference Fun with Algorithms 2 (FUN'01)*, Isola d'Elba, May 29- June 3, 2001.
- *Workshop su Sistemi Distribuiti: Algoritmi, Architetture, e Linguaggi (WSDAAL'00)*, Ischia (Na), September 18-20, 2000 (speaker).
- *IEEE International Parallel and Distributed Processing Symposium (IPDPS'00)*, Cancun, Mexico, May 1-5, 2000 (speaker).

- *IEEE 13-th International Parallel Processing Symposium and 10-th Symposium on Parallel and Distributed Processing (IPPS/SPDP'99)*, San Juan, Puerto Rico, April 1999 (speaker).
- *International conference on Fun with Algorithms (FUN'98)*, Isola d'Elba, June 18-20, 1998.
- *2nd Workshop su Sistemi Distribuiti: Algoritmi, Architetture, e Linguaggi (WSDAAL'97)*, Bertinoro (Forli), September 23-25, 1997 (speaker).
- *4-th Colloquium on Structural Information and Communication Complexity (SIROCCO'97)*, Ascona, Switzerland, July 1997.
- *3rd Colloquium on Structural Information and Communication Complexity (SIROCCO'96)*, Pontignano (SI), June 4-6, 1996.
- *MAP project meeting*, Roma, April 1996.
- *20-th International Symposium Mathematical Foundation of Computer Science, (MFCS'95)*, Prague, Czech Republic, August 28 - September 1, 1995 (speaker).
- *2nd Colloquium on Structural Information and Communication Complexity (SIROCCO'95)*, Olympia, Greece, June 12-14, 1995 (speaker).
- *Sixth IEEE Symposium on Parallel and Distributed Processing (SPDP'95)*, Dallas, Texas, October 26-29, 1994 (speaker).
- *1st Colloquium on Structural Information and Communication Complexity (SIROCCO'94)*, Ottawa, Ontario, Canada, May 18-20, 1994.

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## AWARDS AND SCHOLARSHIPS

- Awarded as one of the best papers.** Antonina Dattolo, Flaminia L. Luccio, Elisa Pirone, Webpage Accessibility and Usability for Autistic Users: a Case Study on a Tourism Website. In the proceedings of the Ninth International Conference on Advances in Computer-Human Interactions (ACHI 2016), April 24-28, 2016 - Venice, Italy, pp. 145-152. *May 2016*
- Achievement award**, for "Leadership and Service contributions to the field of Computer and Network Security" at the 2014 World Congress in Computer Science, Computer Engineering, and Applied Computing, WORLDCOMP'14, Las Vegas, U.S.A.. *22 July 2014*
- Best paper award nominee.** "Type-based Analysis of PKCS#11 Key Management" Matteo Centenaro, Riccardo Focardi, Flaminia Luccio. In the proceedings of the 1st conference on Principles of Security and Trust (POST), 26-27 March 2012, Tallinn, Estonia. *March 2012*
- PhD Scholarship** at the University of Milan, Italy. *February 1995- October 1998*
- Wins an "**Ontario Graduate Scholarship**" to extend the Master studies to PhD studies at Carleton. She refuses the scholarship in order to follow the PhD program at the University of Milan. *March 95*
- Teaching assistant scholarship** at the Carleton University of Ottawa, Canada. *September 1993- April 1995*
- Research assistant scholarship** at the Carleton University of Ottawa, Canada. *May 1994-April 1995*
- Special Exchange Scholarship** between the University of Pisa and the University of Frankfurt am Main, Germany. *September 1991-April 1992*

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## EDITORIAL BOARD MEMBER

- **Editorial board member** of Wireless Personal Communications, Springer. ISSN: 0929-6212 (print version) ISSN: 1572-834X (electronic version) 2.2 (2022) Impact factor, 1.8 (2022) Five year impact factor. <https://www.springer.com/journal/11277/editors> *09/2016-11/2020, 05/2021 - now*
- **Editorial board member** Open Computer Science journal. *11/2015-2022*
- **Editorial board member** International Scholarly Research Notices (ISRN) Combinatorics. *05/2012-04/2014*
- **Editorial board member** International Scholarly Research Notices for "Discrete Mathematics. *05/2014-11/2017*
- Theory of Computing Systems (**co-editor for the "special issue"** dedicated to the conference FUN with Algorithms 2012) with E. Kranakis, D. Krizanc. *05/2014*

- A. Cortesi, F.L. Luccio (Eds.) **co-editor of the proceedings of** Informatics Education Europe III. 3rd ACM-IFIP International Conference, IEEEIII08, Venice, Italy, December 4-5, 2008.
- E. Kranakis; D. Krizanc; F. Luccio (Eds.) **co-editor vi** Fun with Algorithms 6th International Conference, FUN 2012, LNCS, Springer Verlag 4-6 giugno, 2012 San Servolo Island, Venice, Italy.
- R. Prasad, K. Farkas, A.U. Schmidt, A. Lioy, G. Russello, F. Luccio. **guest co-editor of the proceedings of** Security and Privacy in Mobile Information and Communication Systems Third International ICST Conference, MobiSec 2011, Aalborg, Denmark, May 17-19, 2011.
- **Steering Committee member** of International Conference on Advances in Computer- Human Interactions, ACHI series, dal 2017, IARIA.

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## PEER-REVIEW

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### International journal referee activities

Flaminia Luccio is a reviewer for several scientific journals among which: Information Processing Letters (IPL), Graphs and Combinatorics (GC), Networks, Discrete Mathematics, Distributed Computing, Performance Evaluation, Theoretical Computer Science, Theory of Computing Systems, Wireless Personal Communications, ISRN Combinatorics, Multimedia Tools and Applications, Computer Networks Journal.

### International conference referee activities

Flaminia Luccio has been a reviewer for all the international conference for which she has been a PC member.

### Referee activity for international scholarships

- Reviewer for the Fulbright Scholarship of the Czech Republic (Czech scholars Fulbright-Masaryk for the years 2012/2013). The scholarship provides for a period spent at an American university. *01/2012*
- Reviewer for a scientific proposal of a research project submitted to the Department Notice, Department of Mathematics, University of Padua. *06/2023*

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## PUBLICATIONS

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## References

### International journals

- [1] "Design and implementation of fast and cost-effective FPGA-based fuzzy rainbow tradeoffs". L. Veronese F. Palmarini, R. Focardi, F. L. Luccio. SN Computer Science, 4, 330 (2023), <https://doi.org/10.1007/s42979-023-01762-9>.
- [2] "FWS: Analyzing, maintaining and transcompiling firewalls". C. Bodei, L. Ceragioli, P. Degano, R. Focardi, L. Galletta, F. Luccio, M. Tempesta, L. Veronese. Journal of Computer Security, IOS Press, vol. 29, n. 1, pp. 77-134, 2021
- [3] "Security and Privacy of QR Code Applications: A Comprehensive Study, General Guidelines and Solutions ." H.A.M. Wahsheh, F.L. Luccio, Information 2020, vol. 11(4), 217, April 2020, (ISSN: 2078-2489), DOI: 10.3390/info11040217.
- [4] "Usable security for QR code." R. Focardi, F.L. Luccio, H.A.M. Wahsheh , Journal of Information Security and Applications, vol. 48, October 2019, (ISSN: 22142134), DOI: 10.1016/j.jisa.2019.102369.
- [5] "Learning distributed algorithms by programming robots." F.L. Luccio. Journal of e-Learning and Knowledge Society, 2019, vol. 15, n.2, pp. 89-100. (ISSN: 1826-6223), <https://doi.org/10.20368/1971-8829/1625>.
- [6] "Gathering of Robots in a Ring with Mobile Faults." S. Das, R. Focardi, F.L. Luccio, E. Markou, M. Squarcina. Theoretical Computer Science (TCS), vol. 764, pp. 42-60 (ISSN 0304-3975), 2019, <https://doi.org/10.1016/j.tcs.2018.05.002>.
- [7] "Designing Tourism Websites for Children: Guidelines and Experimental Results." A. Dattolo, C. De March, E. De Riu, F.L. Luccio. in EAI Endorsed Transactions on Serious Games, 18 (16), 2018.

- [8] “Accessible and Usable Websites and Mobile Applications for People with Autism Spectrum Disorders: a Comparative Study”, A. Dattolo, F.L. Luccio. in ICST Transactions on Ambient Systems, vol. 4, 2017 (ISSN 2032-927X).
- [9] “Web Accessibility Recommendations for the Design of Tourism Websites for People with Autism Spectrum Disorders”, International Journal On Advances in Life Sciences, Vol. 8 n. 3 - 4, 2016, pp. 297-308.
- [10] “Type-based Analysis of Key Management in PKCS#11 cryptographic devices”, M. Centenaro, R. Focardi, F.L. Luccio, Journal of Computer Security (JCS), Vol. 21, Number 6, pp. 971-1007, 2013, ISSN:0926-227X, DOI 10.3233/JCS-130479 .
- [11] “Guessing Bank PINs by Winning a Mastermind Game”, R. Focardi, F.L. Luccio, Theory of Computing Systems (TOCS), ISSN 1432-4350, DOI 10.1007/s00224-011-9340-9, 50(1): 52-71 (2012).
- [12] “Contiguous search problem in Sierpinski graphs”, F.L. Luccio, Theory of Computing Systems (TOCS), ISSN 1432-4350, vol. 44, p. 186 - 204, 2009.
- [13] “Decontamination of Hypercubes by Mobile Agents”, P. Flocchini, M.J. Huang, F.L. Luccio, Networks vol. 52 (3), p. 167 - 178, 2008, John Wiley & Sons, Inc.
- [14] “Feedback Vertex Sets in Mesh-based Networks”, F.L. Luccio, Jop F. Sibeyn, Theoretical Computer Science (TCS), vol. 383(1), p. 86-101, 2007, ISSN 0304-3975, Elsevier.
- [15] “Decontaminating chordal rings and tori using mobile agents”, P. Flocchini, M.J. Huang, F.L. Luccio, International Journal of Foundations of Computer Science (IJFCS), vol. 18(3), p. 547-563, 2007, World Scientific Publishing Company.
- [16] “Nesting Analysis of Mobile Ambients”, C. Braghin, A. Cortesi, R. Focardi, F.L. Luccio, C. Piazza, Computer Languages, Systems and Structures, vol. 30 (3-4), Oct.-Dec. 2004, p. 207-230, Elsevier Science.
- [17] “A modular approach to Sprouts” di R. Focardi, F.L. Luccio, Discrete Applied Mathematics (DAM), ISSN 0166-218X, vol. 144 (3) pp. 303-319, 2004, Elsevier Science.
- [18] “Compact Routing Schemes for Dynamic Ring Networks” di D. Krizanc, F.L. Luccio, R. Raman, Theory of Computing Systems (TOCS), ISSN 1432-4350, vol. 37 (5), pp. 585 - 607, 2004.
- [19] “Fault-tolerant Support for Reliable Multicast in Mobile Wireless Systems: Design and Evaluation” di G. Anastasi, A. Bartoli, F.L. Luccio, Kluwer Wireless Networks Journal (WINET), p. 259-269, ISSN 1022-0038, 10 (3), 2004.
- [20] “Sorting and Election in Anonymous Asynchronous Rings”, P. Flocchini, E. Kranakis, D. Krizanc, F.L. Luccio, N. Santoro, Journal of Parallel and Distributed Computing (JPDC), p. 254-265, ISSN 0743-7315, 64 (2), 2004.
- [21] “Routing in Series Parallel Networks”, P. Flocchini, F.L. Luccio, Theory of Computing Systems (TOCS), p. 137-157, ISSN 1432-4350, 36(2), 2003.
- [22] “On recognizing a string on an anonymous ring”, E. Kranakis, D. Krizanc, F.L. Luccio, Theory of Computing Systems (TOCS), p. 3-12, ISSN 1432-4350, 34(1), 2001.
- [23] “Feedback Vertex Set in Hypercubes” R. Focardi, F.L. Luccio, D. Peleg, Information Processing Letters (IPL) p. 1-5, ISSN 0020-0190, 76 (1-2), November 13, 2000.
- [24] “Almost Exact Minimum Feedback Vertex Set in Meshes and Butterflies” F.L. Luccio, Information Processing Letters (IPL), p. 59-64, ISSN 0020-0190, 66 (2), May 20, 1998.

## International Electronic Journals

- [25] “Behind BANANA: Design and Implementation of a Tool for Nesting Analysis of Mobile Ambients”, C. Braghin, A. Cortesi, R. Focardi, F.L. Luccio, C. Piazza, Electronic Notes in Theoretical Computer Science, volume dedicated to the Mefisto Project 2003, “Formal Methods for Security and Time”, 99, p. 319-337, 6 agosto 2004.

## Publications in books

- [26] “Security Threats and Solutions for Two-Dimensional Barcodes: A Comparative Study”, R. Focardi, F.L. Luccio, H. Wahsheh, in Kevin Daimi, Guillermo A. Francia, Levent Ertaul, Luis Hernandez Encinas, Eman El-Sheikh, Computer and Network Security Essentials, Springer, ISBN 978-3-319-58423-2, pp 207-219, online 2017, print 2018.
- [27] “An Introduction to Security API Analysis”, R. Focardi, F.L. Luccio, and G. Steel ” in A. Aldini and R. Gorrieri (Eds.): VI - FOSAD Tutorial Lectures, LNCS 6858, pp. 35–65. Springer, Heidelberg, ISBN 978-3-642-23081-3, 2011.



- [28] “A Formal Model for Supporting the Adaptive Access to Virtual Museums”, A. Dattolo, F.L. Luccio, In *Advances in Soft Computing*, ISSN 1615-3871, ASC 60, p. 481-492, Springer, 2009.
- [29] “A New Concept Map Model for E-learning Environments”, A. Dattolo, F.L. Luccio, *Lecture Notes in Business Information Processing*, LNBIP 18, ISSN 1865-1348, p. 404-417, Springer, 2009.

## **Books edited**

- [30] E. Kranakis; D. Krizanc; F. Luccio, Editorial: Fun with Algorithms, *Theory of Computing Systems*, vol 54, n. 4, 2014, pp. 529-530, Springer US, ISSN: 1432-4350, DOI: 10.1007/s00224-013-9503-y.
- [31] A. Cortesi, F.L. Luccio (Eds.), *Informatics Education Europe III. 3rd ACM-IFIP International Conference, IEEEIII08*, Venice, Italy, December 4-5, 2008, ISBN 978-88-903433-0-8.
- [32] E. Kranakis; D. Krizanc; F. Luccio, *Fun with Algorithms 6th International Conference, FUN 2012, LNCS*, Springer Verlag, ISBN: 9783642303463, ISSN: 0302-9743, 4-6 giugno, 2012 San Servolo Island, Venice, Italy.
- [33] R. Prasad, K. Farkas, A.U. Schmidt, A. Lioy, G. Russello, F. Luccio. *Security and Privacy in Mobile Information and Communication Systems Third International ICST Conference, MobiSec 2011, Aalborg, Denmark, May 17-19, 2011, Revised Selected Papers. (LNICST)*, vol. 94, Springer Verlag, ISBN: 9783642302435, ISSN: 1867-8211.

## **Presentations**

- [34] “Towards Cryptographically Secure QR Codes”. F.L. Luccio and H.A.M. Wahsheh. Presented at the 1st Italian Conference on Cybersecurity (ITASEC17), Venice, 17-20 January 2017.

## **International Conferences and Workshops**

- [35] “Bridging the Gap: Automated Analysis of Sancus”, M. Busi, R. Focardi, F.L. Luccio. Accepted at the 37th IEEE Computer Security Foundations Symposium July 8-12, 2024 - Enschede, The Netherlands.
- [36] “Accessible Applications to Improve the Tourist Experience”. I. De Paoli, A.M. Di Campi, Flaminia L. Luccio, *Computer-Human Interaction Research and Applications 7th International Conference (CHIRA'23)*, Rome, Italy, November 16–17, 2023. Book Title: *Computer-Human Interaction Research and Applications*. Springer Cham.
- [37] “A Recipe for Cost-Effective Secure IoT: the SAFE PLACE Project Case Study”, F. Palmarini, L. Veronese, M. Busi, R. Focardi, F.L. Luccio, 2023 IEEE International Conference on Cyber Security and Resilience (IEEE CSR'23), July 31 - August 2, 2023.
- [38] “Don't Get Stranded: Secure and Dynamic Key Management Policies with Strand Spaces” M. Busi, R. Focardi, F.L. Luccio, in Marco Patrignani, Ethan Cecchetti, *Workshop on Foundations of Computer Security (FCS'23)*, Workshop on Foundations of Computer Security (FCS23), 9th July 2023.
- [39] “Automated Learning and Verification of Embedded Security Architectures”, M. Busi, R. Focardi, F.L. Luccio. In *Proceedings of the 7th Workshop on Principles of Secure Compilation (co-located with POPL 2023) (PriSC'23)*, 21 January 2023, Boston, Massachusetts, United States.
- [40] “The Revenge of Password Crackers: Automated Training of Password Cracking Tools”, A.M. Di Campi, R. Focardi, F.L. Luccio. In *Proceedings of the 27th European Symposium on Research in Computer Security (ESORICS'22)*, Copenhagen, Denmark 26-30, September, 2022.
- [41] “A Fast and Cost-effective Design for FPGA-based Fuzzy Rainbow Tradeoffs”, L. Veronese, F. Palmarini, R. Focardi, F.L. Luccio. In *Proceedings of the 8th International Conference on Information Systems Security and Privacy (ICISSP'22)*, pages 165-176, 2022.
- [42] “A formally verified configuration for Hardware Security Modules in the cloud”. R. Focardi, F.L. Luccio. To appear in the proceedings of the ACM Conference on Computer and Communications Security (CCS) November 15-19, 2021, Virtual conference.
- [43] “Firmware extraction from real IoT devices through power analysis of AES”. F. Benvenuto, F. Palmarini, R. Focardi, F.L. Luccio. *The Italian Conference on CyberSecurity (ITASEC'21)*, online, April 7-9, 2021.
- [44] “Broadcasting with Mobile Agents in Dynamic Networks”. S. Das, N. Giachoudis, F.L. Luccio and E. Markou. In the proceedings of the 24th International Conference on Principles of Distributed Systems (OPODIS 2020), Volume 184, p. 24:1–24:16, LIPIcs, 14-16 December, 2020 Online, ISBN 978-3-95977-176-4, ISSN 1868-8969.
- [45] “Automated Analysis of PUF-based Protocols”. R. Focardi, F.L. Luccio. In the proceedings of the 33rd IEEE Computer Security Foundations Symposium June 22-26, 2020 - Virtual Conference.

- [46] "Design and implementation of an airport chatbot." M. Carisi, A. Albarelli, F.L. Luccio. In the proceedings of the 5th EAI International Conference on Smart Objects and Technologies for Social Good. September 25-27, 2019 Valencia, Spain, ACM.
- [47] "Gathering of Robots in a Grid with Mobile Faults." S. Das, N. Giachoudis, F.L. Luccio and E. Markou. In the proceedings of the 45th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM19), LNCS 11376, p. 164-178, Novy Smokovec, Slovakia, January 27-30, 2019.
- [48] "Evaluating Security, Privacy and Usability Features of QR Code Readers." H. Wahsheh, F.L. Luccio. In the proceedings of the 5th International Conference on Information Systems Security and Privacy (ICISSP 2019), February 23-25, 2019, Prague, Czech Republic, p. 266-273, doi:10.5220/0007346202660273.
- [49] "Neural-Cryptanalysis of Classical Ciphers." R. Focardi, F.L. Luccio. In the proceedings of the 19th Italian Conference on Theoretical Computer Science (ICTCS 2018). Ceur Volume 2243, pp. 104-115. 18-20 September 2018, Urbino, Italy.
- [50] "Accessible Tourism for Users with Hearing Loss." F.L. Luccio, L. Beltrame. In the proceedings of the 4th EAI International Conference on Smart Objects and Technologies for Social Good. November 28-30, 2018, ACM, pp. 243-248, Bologna, Italy, SBN: 978-1-4503-6581-9 doi:10.1145/3284869.3284909.
- [51] "Usable Cryptographic QR Codes." R. Focardi, F.L. Luccio, H. Wahsheh. In the proceedings of the IEEE International Conference on Industrial Technology (ICIT - IEEE 2018), pp. 1664-1669, Lyon, France, February 20-22, 2018. ISBN 978-1-5090-5948-5.
- [52] "Usable and Accessible Tourism Websites for Children: a Case Study of a Naturalistic Oasis." A. Dattolo, C. De March, F.L. Luccio. In the proceedings of the *3rd EAI International Conference on Smart Objects and Technologies for Social Good*. November 29-30 2017, Pisa, Italy, Springer-Verlag, to appear, 2017.
- [53] "A review of Websites and Mobile Applications for People with Autism Spectrum Disorders: Towards Shared Guidelines." A. Dattolo, F.L. Luccio. In the proceedings of the *2nd EAI International Conference on Smart Objects and Technologies for Social Good*. November 30 - December 1, 2016, Venice, Italy, Springer-Verlag, vol. 195, pp. 1-10, 2017.
- [54] "Gathering of Robots in a Ring with Mobile Faults." S. Das, R. Focardi, F. Luccio, E. Markou, D. Moro and M. Squarcina. In the proceedings of the *17th Italian Conference on Theoretical Computer Science (ICTCS 2016)*. Ceur, Vol-1720, pp. 122-135, ISSN 1613-0073. Lecce, Italy, September 7-9th 2016.
- [55] "Localizing Firewall Security Policies". Pedro Adão, Riccardo Focardi, Joshua Guttman and Flaminia Luccio. In the proceedings of the *29th IEEE Computer Security Foundations Symposium (CSF'16)*, June 27-July 1, 2016, Lisboa, Portugal, pp. 194-209.
- [56] "Webpage Accessibility and Usability for Autistic Users: a Case Study on a Tourism Website (Awarded as one of the best papers)". Antonina Dattolo, Flaminia L. Luccio, Elisa Pirone. In the proceedings of the *Ninth International Conference on Advances in Computer-Human Interactions (ACHI '16)*, April 24-28, 2016 - Venice, Italy, pp. 145-152, ISSN: 2308-4138, ISBN: 978-1-61208-468-8.
- [57] "Localizing Security for Distributed Firewalls". Pedro Adão, Riccardo Focardi, Joshua Guttman and Flaminia Luccio. Presented at the *4th Workshop on Hot Issues in Security Principles and Trust (HotSpot '16)*, Eindhoven, The Netherlands April 3rd, 2016.
- [58] "Maintaining Intruder Detection Capability in a Rectangular Domain with Sensors". Evangelos Kranakis, Danny Krizanc, Flaminia Luccio and Brett Smith. In the proceedings of the *11th International Symposium on Algorithms and Experiments for Wireless Sensor Networks (Algosensors '15)*, 17 -18 September 2015, Patras, Greece, LNCS 9536, pp. 27-40, ISBN 978-3-319-28471-2.
- [59] "Mobile Agents Rendezvous in spite of a Malicious Agent ". Shantanu Das, Flaminia L. Luccio and Euripides Markou. In the proceedings of the *11th International Symposium on Algorithms and Experiments for Wireless Sensor Networks (Algosensors'15)* 17 -18 September 2015, Patras, Greece, LNCS 9536, pp. 211-224, ISBN 978-3-319-28471-2.
- [60] "Modelling Volo, an Augmentative and Alternative Communication application.", A. Dattolo, F.L. Luccio. In the proceedings of the *Eighth International Conference on Advances in Computer-Human Interactions (ACHI'15)*, pp. 14-19, February 22 - 27, 2015, Lisbon, Portugal, IARIA, ISSN: 2308-4138, ISBN: 978-1-61208-382-7.
- [61] P. Adão, Claudio Bozzato, Gian-Luca Dei Rossi, R. Focardi, F.L. Luccio. "Mignis: A semantic based tool for firewall configuration". In the proceedings of the *IEEE 27th Computer Security Foundations Symposium (CSF'14)*, July 19 - 22, 2014, Vienna, Austria.
- [62] P. Adão, Claudio Bozzato, Gian-Luca Dei Rossi, R. Focardi, F.L. Luccio. "A semantic based tool for firewall configuration". Presented at *Hot Issues in Security Principles and Trust (HotSpot '14)*, 5th April 2014 in Grenoble, France.

- [63] “Type-Based Analysis of Generic Key Management APIs”. P. Adão, R. Focardi, F.L. Luccio In the proceedings of the *IEEE 26th Computer Security Foundations Symposium (CSF’13)*, 97-111, June 26-28, 2013, New Orleans, Louisiana, USA.
- [64] “Fast SQL Blind Injections in High Latency Networks”, R. Focardi, F.L. Luccio, M. Squarcina, In the proceedings of the *Security and Privacy Special Track, IEEE-AESS Conference in Europe about Space and Satellite Communications (ESTEL’12)* Roma, Italia, 2-5 ottobre 2012, ISBN: 978-1-4673-4687-0.
- [65] R. Focardi, F.L. Luccio, “Type-based analysis of real PKCS#11 devices”. *5 minutes talk at the 25th IEEE Computer Security Foundations Symposium (CSF ’12)*, Harvard University, Cambridge MA, USA, June 25-27 2012.
- [66] “Towards a type-based analysis of real PKCS#11 devices”, R. Focardi, F. Luccio. Presented at the *6th International Workshop on Analysis of Security APIs (ASA’12)*. Cambridge MA, USA, June 28 2012.
- [67] “Type-based Analysis of PKCS#11 Key Management (Best paper award nominee)” Matteo Centenaro, Riccardo Focardi, Flaminia Luccio, In the proceedings of the *1st conference on Principles of Security and Trust (POST’12)*, 26-27 March 2012, Tallinn, Estonia.
- [68] “Secure recharge of disposable RFID tickets”, R. Focardi, F.L. Luccio. In the proceedings of the *8th International Workshop on Formal Aspects of Security & Trust (FAST’11)* Leuven, Belgium, September 15-16, 2011.
- [69] “Analysis and development of Security APIs for disposable RFID tickets”, R. Focardi, F.L. Luccio, *5th International Workshop on Analysis of Security APIs (ASA’11)*, Paris, France, June 30 2011.
- [70] “Cracking bank PINs by playing Mastermind”, Riccardo Focardi, Flaminia Luccio, in the proceedings of *Fifth International Conference on Fun with algorithms (FUN’10)*, June 2-4, 2010 Ischia Island, Italy.
- [71] “Secure upgrade of hardware security modules in bank networks”, R. Focardi, F.L. Luccio, in the proceedings of *Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security (ARSPA-WITS’10)*, Paphos, Cyprus, March 27-28, 2010.
- [72] “Blunting Differential Attacks on PIN Processing APIs”, R. Focardi, F.L. Luccio, G. Steel, in the proceedings of the *14th Nordic Conference on Secure IT Systems (Nordsec)*, 14-16 October 2009 Oslo, Norway, ISSN 0302-9743, Lecture Notes in Computer Science 5838 Springer, p. 88-103, 2009.
- [73] “Type-based Analysis of PIN Processing APIs”, M. Centenaro, R. Focardi, F.L. Luccio, G. Steel, in the proceedings of the *14th European Symposium on Research in Computer Security (Esorics)*, Saint Malo, France, September 21-25, p. 53-68, ISSN 0302-9743, Lecture Notes in Computer Science 5789 Springer, 2009. .
- [74] “A State of Art Survey on ZigZag Structures”, A. Dattolo, F.L. Luccio, in the proceedings of the *Workshop on New Forms of Xanalogical Storage and Function*, June 29th, Torino, Italy, p. 1-6, F. Vitali, A. Di Iorio, J. Blustein eds., CEUR, vol 508, ISSN 1613-0073, 2009.
- [75] “Improving PIN Processing API Security”, R. Focardi, F.L. Luccio, G. Steel, in the proceedings of the *3rd International Workshop on Analysis of Security APIs*, July 10-11 2009, Port Jefferson, New York, USA, 2009.
- [76] “A formal description of ZigZag-structures”, A. Dattolo, F.L. Luccio, in the proceedings of the *Workshop on New Forms of Xanalogical Storage and Function*, June 29th, Torino, Italy, p. 7-11, F. Vitali, A. Di Iorio, J. Blustein eds., CEUR, vol 508, ISSN 1613-0073, 2009.
- [77] “A New Concept Map Model for E-learning Environments”, A. Dattolo, F.L. Luccio, in *Web Information Systems and Technologies 4th International Conference (WEBIST 2008), Revised Selected Papers*, Lecture Notes in Business Information Processing, LNBIP 18, ISSN 1865-1348, p. 404-417, 2009.
- [78] “Type-based Analysis of Financial APIs”, M. Centenaro, R. Focardi, F.L. Luccio, G. Steel, presented at the *Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security (ARSPA-WITS’09)*, York, UK, March 28-29, 2009.
- [79] “Visualizing Personalized Views in Virtual Museum Tours”, A. Dattolo, F.L. Luccio, in the proceedings of the *International Conference on Human System Interaction (HIS’08)*, Krakow Poland, May 25 27, ISBN 978-1-4244-1542-7, p.109-114, 2008.
- [80] “Formalizing a model to represent and visualize concept spaces in e-learning environments”, A. Dattolo, F.L. Luccio, in the proceedings of the *4th International Conference on Web Information Systems and Technologies (WEBIST)*, ISBN - 978-989-8111-26-5, May 4-7, 2008, Funchal-Madeira, Portugal, p.339-346, 2008.
- [81] “Intruder Capture in Sierpinski Graphs”, F.L. Luccio, in the proceedings of the *Fourth International Conference on Fun with algorithms (FUN07)*, June 3-5, 2007, Castiglioncello (LI), Tuscany, Italy, p. 249-261, Lecture Notes in Computer Science 4475 Springer.

- [82] "A New Actor-Based Structure for Distributed Systems", A. Dattolo, F.L. Luccio, in the proceedings of the *MIPRO conference on Hypermedia and grid systems* (HGS), May 21-25, 2007, Opatija, Croatia, p. 195-201.
- [83] "Decontamination of Chordal Rings and Tori", P. Flocchini, M. Jun Huang, F.L. Luccio, in the proceedings of the *8th Workshop on Advances in Parallel and Distributed Computational Models* April 25, 2006, Rhodes Island, Greece.
- [84] "Size Optimal Strategies for Capturing an Intruder in Mesh Networks", P. Flocchini, F.L. Luccio, L.X. Song, in the proceedings of the *2005 International Conference on Communications in Computing* (CIC 2005), June 27-30, 2005, Las Vegas, Nevada, U.S.A., p. 200-206.
- [85] "Continuous Search in the Hypercube for Capturing an Intruder", P. Flocchini, M. Jun Huang, F.L. Luccio, in the proceedings of the *IEEE 19th International Parallel and Distributed Processing Symposium* (IPDPS05), April 4-8, 2005 Denver, Colorado, U.S.A., p. 62-.
- [86] "Mobile Agent Rendezvous When Tokens Fail", P. Flocchini, E. Kranakis, D. Krizanc, F.L. Luccio, N. Santoro, C. Sawchuk, in the proceedings of the *11th Colloquium on Structural Information and Communication Complexity* (SIROCCO'04), Smolenice Castle, Slovakia, 21-23 giugno 2004, p. 161-172, Lecture Notes in Computer Science (LNCS), Springer, number 3104, ISBN 3-540-22230-8. Volume editors R. Kralovic and O. Sykora.
- [87] "Tighter Bounds on Feedback Vertex Sets in Mesh-based Networks", F.L. Luccio, Jop F. Sibeyn, in the proceedings of the *11th Colloquium on Structural Information and Communication Complexity* (SIROCCO'04), Smolenice Castle, Slovakia, 21-23 giugno 2004, p. 209-220, Lecture Notes in Computer Science (LNCS), Springer, number 3104, ISBN 3-540-22230-8. Volume editors R. Kralovic and O. Sykora.
- [88] "How tasty is a cannibal? A strategy for the mesh cannibal game", in the proceedings of the *3rd International Conference on Fun with Algorithms* (FUN 2004), Isola d'Elba, Italy, May 26-28, 2004, p. 171-183.
- [89] "Minimum Feedback Vertex Set in Pyramid and Mesh of Trees Networks", F.L. Luccio, in the proceedings of the *10th Colloquium on Structural Information and Communication Complexity* (Sirocco'03), Proceedings in Informatics 17 Carleton Scientific, ISBN 1-894145-16-X, Umea, Sveden, 18-20 giugno 2003, p. 235-247.
- [90] "BANANA: A tool for Boundary Ambients Nesting ANALysis", C. Braghin, A. Cortesi, S. Filippone, R. Focardi, F.L. Luccio, C. Piazza, in the proceedings of the Ninth International Conference on Tools and Algorithms for the Construction and analysis of Systems (TACAS'03), Warsaw, Poland 7-11 April 2003, p. 437-441. Lecture Notes in Computer Science 2619 Springer, ISBN 3-540-00898-5. Volume editors Hubert Garavel and John Hatcliff.
- [91] "Complexity of Nesting Analysis in Mobile Ambients", C. Braghin, A. Cortesi, R. Focardi, F.L. Luccio, C. Piazza, in the proceedings of the "The 4-th International Conference on Verification, Model Checking and Abstract Interpretation" (VMCAI'03), New York University, New York, U.S.A., 9-11 January 2003, p. 86-101. Lecture Notes in Computer Science (LNCS), Springer, number 2575, ISBN 3-540-00348-7. Volume editors Lenore D. Zuck, Paul C. Attie, Agostino Cortesi and Supratik Mukhopadhyay.
- [92] "Fuzzy Graphs and Error-proof Keyboards", F.L. Luccio, A. Sgarro, in the proceedings of the "The 9th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems" (IPMU'02), Annecy, Francia, 1-5 luglio 2002, pp. 1503-1508.
- [93] "Fault-Tolerant Support for Reliable Multicast in Mobile Wireless Systems: Design and Evaluation", G. Anastasi, A. Bartoli, F.L. Luccio, in the proceedings of the Networking 2002, Pisa, May 19-24, 2002, pp. 1069-1080. Lecture Notes in Computer Science (LNCS) number 2345, ISBN 3-540-43709-6. Volume editors Enrico Gregori, Marco Conti, Andrew T. Campbell, Guy Omidyar, Moshe Zukerman.
- [94] "A new analysis technique for the Sprouts Game", R. Focardi, F.L. Luccio, in the proceedings of the Fun with Algorithms 2 (FUN'01) Isola d'Elba, May 29-31, 2001, pp. 117-132.
- [95] "Sorting Multisets in Anonymous Rings" P.Flocchini, E. Kranakis, D. Krizanc, F.L. Luccio, N. Santoro, in the proceedings of the *IEEE International Parallel and Distributed Processing Symposium* (IPDPS'00), Cancun, Messico, May 1-5, 2000, p. 275-280.
- [96] "Dynamic Interval Routing on Asynchronous Rings" di D. Krizanc, F.L. Luccio, R. Raman, in the proceedings of the *IEEE 13-th International Parallel and Processing Symposium & 10-th Symposium on Parallel and Distributed Processing* (IPPS/SPDP'99), April 12-16, San Juan, Puerto Rico, pages 225-232, 1999.
- [97] "Distance Routing on Series Parallel Networks" di P. Flocchini e F.L. Luccio, in the proceedings of the *IEEE International Conference on Distributed Computing Systems* (ICDCS'96) Hong-Kong, March 27-30, 1996, p. 352-359.
- [98] "String Recognition on Anonymous Rings" di E. Kranakis, D. Krizanc e F.L. Luccio, in the proceedings of the *20-th International Symposium Mathematical Foundation of Computer Science* (MFCS'95), Praga, Repubblica Ceca, August 28 - September 1, 1995, p. 392-401.

- [99] “Boolean Routing on Chordal Rings” di D. Krizanc e F.L. Luccio, in the proceedings of the *2nd Colloquium on Structural Information and Communication Complexity* (Sirocco’95), Olympia, Greece, June 12-14, 1995, p. 89-100.
- [100] “On the convergence of a parallel algorithm for finding polynomial zeros”, di F.L. Luccio, in the proceedings of the *6-th IEEE Symposium on Parallel and Distributed Processing* (SPDP’94), Dallas, U.S.A., October 26-29, 1994.

## National Workshops

- [101] “A Fault-Tolerant Support for Mobile Wireless Systems”, F.L. Luccio, A. Bartoli, G. Anastasi, in the proceedings of the *Workshop di Sistemi Distribuiti: Algoritmi, Architetture e Linguaggi* (WDSAAL’00), Ischia (Na), Italy, September 18-20, 2000.
- [102] “Interval Routing in Series Parallel Graphs”, di C. Gavoille, F.L. Luccio, in the proceedings of the *Workshop di Sistemi Distribuiti: Algoritmi, Architetture e Linguaggi* (WDSAAL’97), Bertinoro (FO), September 23-25, 1997.

## ePrint Archives

- [103] “Type-Based Analysis of Generic Key Management APIs (Long Version)”, P. Adão, R. Focardi, F.L. Luccio, *IACR Cryptology ePrint Archive*, pages 237-, 2013, [url:http://eprint.iacr.org/2013/237](http://eprint.iacr.org/2013/237).
- [104] “Mobile Agents Rendezvous in spite of a Malicious Agent”, Flaminia L. Luccio, Euripides Markou. *CoRR abs, arXiv.org*, 2014, [url:arXiv:1410.4772](https://arxiv.org/abs/1410.4772).

## Technical Reports

- [105] “Type-based Analysis of Financial APIs”, M. Centenaro, R. Focardi, F.L. Luccio, G. Steel, Technical Report CS-2009-2, Università Ca’ Foscari Venezia, Dipartimento di Informatica, Italy, January 2009.
- [106] “Capturing an Intruder in the Hypercube by Mobile Agents”, P. Flocchini, M. Jun Huang, F.L. Luccio, Technical Report TR-2005-2, School of Information Technology & Engineering University of Ottawa, Ottawa, Ontario, CANADA, 2005.
- [107] “Minimum Feedback Vertex Set in Mesh-based Networks”, di F.L. Luccio, J.F. Sibeyn, Reports on Computer Science 04.11 Fachbereich Mathematik und Informatik, Martin-Luther-Universität, Halle, Germany, 2004.
- [108] “Fault-Tolerant Support for Reliable Multicast in Mobile Wireless Systems: Design and Evaluation”, di F.L. Luccio, A. Bartoli, G. Anastasi, Quaderni Matematici (Technical Report) 526, Università degli Studi di Trieste, Dipartimento di Scienze Matematiche, Italy, July 2002.
- [109] “Compact Routing Schemes for Dynamic Ring Networks” di D. Krizanc, F.L. Luccio, R. Raman, Technical Report 2002/26 Department of Mathematics & Computer Science, University of Leicester, 2002.
- [110] “Analysing Sprouts”, di R. Focardi, F.L. Luccio, Technical Report # CS-2002-9, Università Ca’ Foscari di Venezia, Dipartimento di Informatica, Italy June 2002.
- [111] “Fault-Tolerant Support for Totally Ordered Multicast in Mobile Wireless Systems”, di F.L. Luccio, A. Bartoli, G. Anastasi, Quaderni Matematici (Technical Report) 469, Università degli Studi di Trieste, Dipartimento di Scienze Matematiche, Italy, June 2000.
- [112] “Sorting Multisets and Electing a Leader in Anonymous Rings”, di P. Flocchini, E. Kranakis, D. Krizanc, F.L. Luccio, N. Santoro, Quaderni Matematici (Technical Report) 463, Università degli Studi di Trieste, Dipartimento di Scienze Matematiche, Italy, January 2000.
- [113] “Minimum Feedback Vertex Set in k-Dimensional Hypercubes”, di R. Focardi, F.L. Luccio, Technical Report # CS-99-21, Università Ca’ Foscari di Venezia, Dipartimento di Informatica, Italy, October 1999.
- [114] “Almost Exact Minimum Feedback Vertex Set in Meshes and Butterflies” di F.L. Luccio, Technical Report 207-97, Dipartimento di Scienze dell’Informazione, Università degli Studi di Milano, Italy, October 1997.
- [115] “Distance Routing on Series Parallel Networks” di P. Flocchini e F.L. Luccio, Technical Report TR-96-15, Carleton University, Ottawa, Canada, aprile 1996.
- [116] “String Recognition on Anonymous Rings” di E. Kranakis, D. Krizanc e F.L. Luccio, Technical Report TR-256, Carleton University, Ottawa, Canada, November 1994.

## Thesis

- [117] “Communication in Distributed Systems”, di F.L. Luccio, PhD thesis in Computer Science, University of Milano, December 1998.
- [118] “Distributed Algorithms for Routing and String Recognition”, di F. L. Luccio, Master thesis in Computer Science, Carleton University, Ottawa, Canada, April 1995.
- [119] “Approssimazione numerica di zeri di polinomi: analisi e sviluppo di alcuni metodi basati sull’algoritmo euclideo” di F. Luccio, laurea thesis, University of Pisa, July 1993.

## Tools

- [120] “Mignis - A semantic based tool for firewall configuration”, P. Adao, Claudio Bozzato, Gian-Luca Dei Rossi, R. Focardi, F.L. Luccio, 2014, [url:http://github.com/secgroup/Mignis](http://github.com/secgroup/Mignis).