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Serena Nicolazzo
CURRICULUM VITAE

INFORMAZIONI PERSONALI (non inserire indirizzo privato e telefono fisso o cellulare)

Cognome	Nicolazzo
Nome	Serena
Data Di Nascita	20 giugno 1988

TITOLI

TITOLO DI STUDIO
- Marzo 2011 - Università Mediterranea di Reggio Calabria - Laurea triennale in Ingegneria delle Telecomunicazioni, 110/110 e lode
- Luglio 2013 - Università Mediterranea di Reggio Calabria - Laurea Magistrale in Ingegneria Informatica e dei Sistemi per le Telecomunicazioni, 110/110 e lode
- Ottobre 2023 (Prevista) - Università Statale di Milano - Laurea triennale in Scienze dei Beni Culturali.

TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO
- Luglio 2017 - Università Mediterranea di Reggio Calabria - Dottore di Ricerca in Ingegneria dell'Informazione

CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI
- Da 01/01/2017 a 01/10/2017 - Assegnista di Ricerca presso Università Mediterranea di Reggio Calabria.

POSIZIONI LAVORATIVE
- Da Settembre 2021 ad ora Insegnante di ruolo a tempo indeterminato di Informatica. I.I. S "Curie - Sraffa" – Milano.
- Da Luglio 2019 a Settembre 2021 Research Engineering Senior Engineer presso Sky Italia Srl.
- Da Ottobre 2017 a Luglio 2019 Software Architect Innovative Solutions presso Sisal SPA.

ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO
- Assistente per il corso di Algoritmi & Strutture Dati all'Università Mediterranea di Reggio Calabria dal 2014/15 to 2016/17.

- Corso di Informatica (30 hours) all'ITS: "Tecnico Superiore per l'Infomobilità e le infrastrutture logistiche". ITS "PEGASUS" October 23 – January 21.
- Corso su "Security, Privacy and Trust in the IoT" all'interno del Corso di Dottorato in Information Engineering, Aprile 2021, all'Università Politecnica delle Marche.

REALIZZAZIONE DI ATTIVITÀ PROGETTUALE

- Cyber Security - Project 2: Digital Services and e-Payement Protection; Project 3: Secure Dematerialization. A project of the Programma Operativo Nazionale (PON) Ricerca e Competitività 2007-2013 made in collaboration with Poste Italiane SpA, Postel SpA, NTT Data Italia SpA, Abramo Printing & Logistics SPA, Centro di Competenza ICT-SUD Srl, NOVA System ROMA srl, University of Calabria, ICAR-CNR. The project started on October 2013.
- PRIN TENACE - Protecting National Critical Infrastructures from Cyber Threats. A project made in cooperation with University of: Rome La Sapienza, Parthenope of Naples, Federico II of Naples, Politecnico of Milano, Trento, Florence, Politecnico di Torino, Pisa, and ICAR-CNR. The project has been carried out from February 2013 to January 2016.
- inMoto - Information MObility for Tourism. A project of the Programma Operativo Nazionale (PON) Ricerca e Competitività 2007-2013 made in collaboration with ACI Informatica, TSC Consulting, Engineering, University of Calabria, ICAR-CNR, University Magna Graecia of Catanzaro. The project has been carried out from April 2013 to December 2015.
- BA2Know - Business Analytics to Know. Iniziativa del SI_Lab Calabria, made in collaboration with: Engineering, Exeura, University of Calabria, ICAR CNR, Omnia Energia, DLVSystem. The project has been carried out from September 2013 to December 2016.

DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;

- Infosec 2015 - International Summer School on Information Security. July 6-10, 2015. Bilbao, Spain.
- SecureCI 2016 - Winter School: Securing Critical Infrastructures. January 17-21, 2016. Cortina D'ampezzo, Italy.
- 24 CFU per l'Insegnamento. Università UniPegaso, 2017.
- Middlesex University of London. Da marzo 2020 ad al 31 Dicembre 2021, Visiting Researcher nel gruppo di Data Science.

ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI, O PARTECIPAZIONE AGLI STESSI

- Daisy Lab, Università Politecnica delle Marche. Da novembre 2020 ad ora, collaboratore esterno nel gruppo di Data Science e Security.
- Middlesex University of London. Da marzo 2020 ad ora, visiting researcher nel gruppo di Data Science.
- Università Mediterranea di Reggio Calabria. Da ottobre 2013 a ottobre 2017. Phd student e Post-doc nel gruppo di Security, Trust e Social Network.

INDICATORI BIBLIOMETRICI

	Publications	Citations	H-Index
Scopus	37	305	9
Scholar	37	439	11

ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

- 13th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2014), Amantea, Italy, October 27-31, 2014.

PARTECIPAZIONE A COMITATI EDITORIALI

- Membro dell'Editorial Board Member di Experimental Results, Cambridge University Press; International Journal of Information Technologies and Systems Approach (IJITSA); International Journal of Advanced Computer Science and Applications (IJACSA) e di Journal of Computer Science.
- Membro del Technical Program Committee (TPC) per: 2017 International Conference on Computer Science and Application Engineering (CSAE 2017); Ninth International Conferences on Pervasive Patterns and Applications (PATTERNS 2017); 7th International Conference Sciences of Electronics, Technologies of Information and Telecommunications (SETIT 2017); e 8th International Conference on Electronics, Communications and Networks (CECNet 2018).
- Revisore per Information Sciences, Future Generation Computer Systems e Computer in Human Behaviour.

PRODUZIONE SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

Journals

1. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. Comparing Twitter and Facebook User Behavior: Privacy and other Aspects. *Computers in Human Behavior,* Elsevier. n. 52, 2015, pp. 87-95, ISSN: 0747-5632.

2. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. A Model to Support Design and Development of Multiple-Social- Network Applications. *Information Sciences*, Elsevier. 331 (2016): 99-119 n. 331, 2016, ISSN: 0020-0255.

3. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. A Privacy-Preserving Localization Service for Assisted Living Facilities. *IEEE Transactions on Services Computing (TSC),* IEEE Computer Society Vol.9. 2017.

4. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. A System for Privacy-Preserving Access Accountability in Critical Environments. IEEE Pervasive Computing, 2019, 18.2: 58-66.

5. **S. Nicolazzo**, A. Nocera, D. Ursino and L. Virgili. A privacy-preserving approach to prevent feature disclosure in an IoT scenario. *Future Generation Computer Systems,* 105:502-519, 2020.

6. M. Ferretti, **S. Nicolazzo** and A. Nocera. H2O: Secure interactions in IoT via Behavioral Fingerprinting. Future Internet. 2021.

7. **S. Nicolazzo**, A. Nocera and D. Ursino. Anonymous Access Monitoring of Indoor Areas. *IEEE Access,* 2021, 9: 56664-56682.

8. E. Corradini, **S. Nicolazzo**, A. Nocera, D. Ursino and L. Virgili. A two-tier Blockchain framework to increase protection and autonomy of smart objects in the IoT. *Computer Communications. 2022, 181: 338-356.*

9. M. Arazzi, **S. Nicolazzo** and A. Nocera. The role of social media on the evolution of companies: A Twitter analysis of Streaming Service Providers. Online Social Networks. *Under Revision.*

10. M. Arazzi, **S. Nicolazzo**, A. Nocera and Manuel Zippo. The Importance of the Language for the Evolution of Online Communities: An Analysis Based on Twitter and Reddit. Expert Systems With Applications. *Under Revision.*

11. M. Arazzi, **S. Nicolazzo** and A. Nocera. A Novel IoT Trust Model Leveraging Fully Distributed Behavioral Fingerprinting and Secure Delegation. Pervasive and Mobile Computing. *Under Revision.*

12. M. Arazzi and **S. Nicolazzo**. A Fully Privacy Preserving Solution for Behavioral Fingerprinting in IoT using Federated Learning and Homomorphic Encryption. Information Sciences. *Submitted for the publication.*

Conferences

1. G. Quattrone, **S. Nicolazzo**, A. Nocera, D. Quercia, and L. Capra. Is the sharing economy about sharing at all? A linguistic analysis of Airbnb reviews. *In Proc. of International AAAI Conference on Web and Social Media (ICWSM 2018),* Palo Alto, California, USA, June 25-28, 2018.

2. F. Buccafurri, G. Lax, **S. Nicolazzo**, A. Nocera, and D. Ursino. Driving Global Team Formation in Social Networks to Obtain Diversity. *In Proc. of the International Conference on Web Engineering (ICWE 2014),* Toulouse, France, Vol. 8541, 2014, pp. 410-419.

3. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. A Privacy-Preserving Solution for Tracking People in Critical Environments. *In Proc. of International Workshop on Computers, Software and Applications (COMPSAC'14),* Vasteras, Sweden, July 21-25, 2014. pp. 146-151.

4. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. A Model Implementing Certified Reputation and its Application to TripAdvisor. *In Proc. of International Conference on Availability, Reliability and Security (ARES 2015),* Toulouse, France, August 24-28, 2015, pp. 218-223.

5. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. Accountability-Preserving Anonymous Delivery of Cloud Services. *In Proc. of 12th International Conference on Trust, Privacy & Security in Digital Business (TrustBus2015),* Valencia, Spain, September 1-2, 2015. pp. 124-135.

6. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. Range Query Integrity in Cloud Data Streams with Efficient Insertion. *In Proc. of the 15th International Conference on Cryptology and Network Security (CANS 2016).* Milan, Italy. November 14-16, 2016. pp. 719-724.

7. F. Buccafurri, G. Lax, **S. Nicolazzo** and A. Nocera. Tweetchain: An Alternative to Blockchain for Crowd-Based Applications. *In Proc. of the International Conference on Web Engineering (ICWE 2017),* Rome, Italy. June 5-8, 2017.

8. F. Buccafurri, G. Lax, **S. Nicolazzo** and A. Nocera. Overcoming Limits of Blockchain for IoT Applications. *In Proc. of the 12th International Conference on Availability, Reliability and Security (ARES 2017).* Reggio Calabria, Italy. August 29 - September 1, 2017.

9. F. Buccafurri, G. Lax, D. Migdal, **S. Nicolazzo**, A. Nocera and C. Rosenberger. Contrasting False Identities in Social Networks by Trust Chains and Biometric Reinforcement. *In Proc. of the 2017 International Conference on Cyberworlds (CW2017).* Chester, United Kingdom. September 20-22, 2017.

10. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. Fortifying TripAdvisor against Reputation-System Attacks. *In Proc. of the World Congress on Internet Security (WorldCIS-2014),* London, UK. December 8-10, 2014. pp. 21-22.

11. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. Interest Assortativity in Twitter. *In Proc. of 12th International Conference on Web Information Systems and Technologies (WEBIST2016).* Rome, Italy. April 23-25, 2016, pp. 239-246.

12. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. A Model to Support Multi-Social-Network Applications. *In Proc. of the International Conference on Ontologies, Databases and Applications of SEmantics (ODBASE '14)*, Amantea, Italy, October 27-31, 2014. Springer Berlin / Heidelberg, pp. 639-656.

13. F. Buccafurri, G. Lax, L. Fotia, **S. Nicolazzo**, and A. Nocera. A new approach for electronic signature. *In Proc. of 2nd International Conference on Information Systems Security and Privacy (ICISSP2016).* Rome, Italy. February 19-21, 2016, pp. 440-447.

14. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. A Middleware to Allow Fine-Grained Access Control of Twitter Applications. *In Proc. of International Conference on Mobile, Secure and Programmable Networking (MSPN'2016).* Paris, France. June 1 - 3, 2016.

15. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. A Threat to Friendship Privacy in Facebook. *In Proc. of the International Cross Domain Conference and Workshop (CD-ARES 2016).* Salzburg, Austria. August 31 - September 2, 2016, Vol. 9817, pp. 96-105.

16. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. Range Query Integrity in Cloud Data Streams with Efficient Insertion. *In Proc. of the 11th International Conference for Internet Technology and Secured Transactions (ICITST-2016)*. Barcelona, Spain. December 5-7, 2016.

17. F. Buccafurri, G. Lax, **S. Nicolazzo,** A. Nocera, A. Matassa and L. Console. Discovering good links between objects in the Internet of Things. *In Proc. of the International Conference on Wireless Networks and Mobile Systems (WINSYS 2017),* Madrid, Spain. July 24-26, 2017.

18. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. Generating K-Anonymous Logs of People-Tracing Systems in Surveilled Environments. *In Atti del Ventiduesimo Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2014),* Sorrento Coast, Italy. June 16-18, 2014. pp. 37-44.

19. F. Buccafurri, G. Lax, L. Fotia, **S. Nicolazzo**, and A. Nocera. A lightweight electronic signature scheme using Twitter. *In Proc. of 23rd Italian Symposium on Advanced Database Systems (SEBD 2015),* Gaeta, Italy, June 14-17, 2015 pp. 160-167.

20. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. Completeness, Correctness and Freshness of Cloud-Managed Data Streams. *In Proc. of 24th Italian Symposium on Advanced Database Systems (SEBD* 2016). Ugento, Lecce, Italy. June 19-22, 2016. pp. 134-141.

21. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. Smart Communities and the Cloud: Security and Privacy Issues. *In Proc. of the 2nd CINI Annual Conference on ICT for Smart Cities & Communities (I-Cities 2016)*. Benevento, Italy. September 29 -30, 2016.

22. G. Lax, F. Buccafurri, **S. Nicolazzo**, A. Nocera and F. Ermidio. A system for privacy-preserving analysis of vehicle movements. *In Proc. of the 2nd EAI International Conference on ICT Infrastructures and Services for Smart Cities (IISSC2017)*. Brindisi, Italy. April 20-21, 2017.

23. F. Buccafurri, G. Lax, **S. Nicolazzo**, A. Nocera, and D. Ursino. Measuring Betweenness Centrality in Social Internetworking Scenarios. *In Proc. of International Workshop on Social and Mobile Computing for collaborative environments (SOMOCO'13),* Gratz, Austria, 2013. Springer Verlag. pp. 666-673.

24. F. Buccafurri, L. Fotia, G. Lax, **S. Nicolazzo** and A. Nocera Trust, Security and Privacy in Smart Cities. *I-CiTies 2015 CINI Annual Workshop on ICT for Smart Cities & Communities.* Palermo, Italy. October 29-30, 2015.

25. F. Buccafurri, G. Lax, **S. Nicolazzo** and A. Nocera. Range Query Integrity in Cloud Data Streams with Efficient Insertion. *In Proc. of the Italian Conference on Cybersecurity (ItaSec2017).* Venice, Italy. January 17-20, 2017.

26. F. Buccafurri, G. Lax, **S. Nicolazzo** and A. Nocera. eIDAS Public Digital Identity Systems: Beyond Online Authentication to Support Urban Security. *In Proc. of the 2nd EAI International Conference on ICT Infrastructures and Services for Smart Cities (IISSC2017)*. Brindisi, Italy. April 20-21, 2017.

27. F. Buccafurri, G. Lax, **S. Nicolazzo**, and A. Nocera. A Model for Handling Multiple Social Networks and its Implementation. *In Proc. of 25th Italian Symposium on Advanced Database Systems (SEBD* 2017). Squillace Lido, Catanzaro, Italy. June 25-29, 2017.

28. F. Buccafurri, G. Lax, **S. Nicolazzo** and A. Nocera. Not Only Databases: Social Data and Cybersecurity Perspective. *In Proc. of 25th Italian Symposium on Advanced Database Systems (SEBD* 2017). Squillace Lido, Catanzaro, Italy. June 25-29, 2017.

29. F. Buccafurri, V. De Angelis, G. Lax, **S. Nicolazzo** and A. Nocera. (2018). The challenge of privacy in the cloud. In Shoba Ranganathan, Michael Gribskov, Kenta Nakai, and Christian Schnbach, editors, *Encyclopedia of Bioinformatics and Computational Biology*, pages 265 - 271. Academic Press, Oxford, 2019.

30. E. Corradini, **S. Nicolazzo**, A. Nocera, L. Virgili, D. Ursino. Increasing protection and autonomy in IoT through a two-tier blockchain. *In Proc. of 29th Italian Symposium on Advanced Database Systems (SEBD* 2021). Pizzo Calabro, Vibo Valentia, Italy. September 5-9, 2021.

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