

# Giovanni Farina

*PhD in Ingegneria Informatica*

✉ [giovanifarina.github.io](https://github.com/giovanifarina)

Nationality: Italian

Location: Rome

Class: 1990

## Posizione Attuale

Set, 2024 **Ricercatore Tenure Track (RTT, SSD IINF-05/A - (ex ING-INF/05))**, Dipartimento di Ingegneria – Università Niccolò Cusano, Roma, Italia.

## Precedenti Posizioni Accademiche

Apr, 2023 – **Ricercatore a tempo determinato (RTD-a)**, Dipartimento di Ingegneria Informatica, Automatica e Gestionale A. Ruberti – Università degli Studi di Roma La Sapienza, Roma, Italia.

Ott, 2022 – **Ricercatore a tempo determinato (RTD-a)**, Università degli Studi Link, Roma, Mar, 2023 Italia.

Nov, 2020 – **Assegnista di ricerca (SSD ING-INF/05)**, Università degli studi di Roma La Set, 2022 Sapienza, Roma, Italia.

## Titoli e Formazione

3 Dic, 2021 **Abilitazione all'esercizio della professione di Ingegnere Informatico.**

2017 – 2020 **Dottorato di ricerca - doppio titolo, *Engineering in Computer Science*, Università degli Studi di Roma La Sapienza, Roma, Italia; *Informatique, Télécommunications et Électronique de Paris (EDITE)*, Sorbonne Université, Parigi, Francia.**

## Progetti di Ricerca

### Agritech

Apr, 2023 – CN2, Centro Nazionale di Ricerca Tecnologie dell'agricoltura (Agritech) - Spoke 9 - Ago, 2024 WP4 e WP5

Ruolo *Partecipante e Contributore*: Deliverables D9.4.1, D.9.5.2.1, D9.5.1, D.9.5.3, D.9.5.5; Milestones M9.5.1, M9.4.1, M9.4.3; Pubblicazioni scientifiche [J1], [C4], [C5], [C6].

### CBFTFDS

Nov, 2022 – Concrete Byzantine Fault Tolerance and Forecasting in Distributed Systems - Progetto di Avvio alla ricerca - Bando di Ateneo per la Ricerca 2022, Sapienza Università di Roma Ott, 2023

Ruolo *Proponente e Contributore*: Pubblicazioni scientifiche [C7], [C8].

## PANACEA

Dic, 2020 – H2020 SU-TDS-02-2018 PANACEA - Protection and privAcy of hospital and health  
Gen, 2021 iNfrastructures with smArT Cyber sEcurity and cyber threat toolkit for dAta and  
people.

Role *Partecipante e Contributore*: Black-Box Unit testing, Deliverable D3.14 - DRMP  
and SISP Verification Report.

## ESTATE

Apr, 2019 – ANR-16-CE25-0009-03 ESTATE (progetto nazionale francese) - Enhancing safety  
Oct, 2020 and self-stabilization in time-varying distributed environments.

Role *Partecipante e Contributore*: Pubblicazioni scientifiche [C10], [C12], [C13], [C15],  
[C16], [J4].

## Assegno di ricerca

Nov, 2020 – Definizione di Algoritmi di comunicazione affidabile resistenti a Guasti Bizantini in  
Ott, 2022 reti dinamiche

Role *Contributore*: Pubblicazioni Scientifiche [J2].

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## Nomine ed Attività Scientifiche

2025-2026 **General Co-Chair, 2025**: *1st International Workshop on DLT for Cybersecurity  
and Vice Versa - DLT4SEC*; **2026**: *1st Workshop on Resiliency for Autonomous  
Systems Across the Computing Continuum - RASACC*.

2026 **Publication Chair**, *45th International Symposium on Reliable Distributed Systems  
- SRDS*.

2024 **Demo/Poster Co-chair**, *Conference on Blockchain Research & Applications for  
Innovative Networks and Services - BRAINS*.

2023 - 2026 **Membro Comitato Tecnico**, *Conference on Blockchain Research & Applications  
for Innovative Networks and Services - BRAINS*, *International Symposium on Stabi-  
lization, Safety, and Security of Distributed Systems - SSS*, *Conference on Principles  
of Distributed Systems - OPODIS*, *International Conference on Distributed Applica-  
tions and Interoperable Systems - DAIS (artifact evaluation)*, *European Conference  
on Computer Systems - EuroSys (artifact evaluation)*.

2017 – **Revisore Anonimo Peer-to-Peer**, *Elsevier Theoretical Computer Science (TCS)*,  
present *ACM Symposium on Principles of Distributed Computing (PODC)*, *International  
Symposium on Algorithms and Computation (ISAAC)*, *Elsevier Journal of Parallel  
and Distributed Computing (JPDC)*, *Elsevier Journal of Computer and System  
Sciences (JCSS)*, *International Symposium on Reliable Distributed Systems (SRDS)*,  
*International Symposium on DIStributed Computing (DISC)*, *Elsevier Journal of  
Science of Computer Programming (SCICO)*.

## Borse di Studio e Finanziamenti

- 2022 *Progetto di avvio alla ricerca, Concrete Byzantine Fault Tolerance and Forecasting in Distributed Systems*, Bando di Ateneo per la Ricerca 2022, Università degli Studi La Sapienza.
- 2018 *VINCI grant 2018*, mobility funding for co-advised PhD thesis, Université Franco-Italienne/Università Italo-Francese (UFI/UIF).

## Pubblicazioni

### Articolo in rivista

- [J1] G. Farina et al., "Interoperable traceability in agrifood supply chains: Enhancing transport systems through iot sensor data, blockchain, and dataspace," *Sensors*, vol. 25, no. 11, 2025, ISSN: 1424-8220. DOI: 10.3390/s25113419.
- [J2] S. Bonomi, G. Farina, and S. Tixeuil, "Reliable communication in dynamic networks with locally bounded byzantine faults," *Journal of Parallel and Distributed Computing*, vol. 193, p. 104952, 2024. DOI: 10.1016/J.JPDC.2024.104952.
- [J3] S. Bonomi, G. Farina, and S. Tixeuil, "Multi-hop byzantine reliable broadcast with honest dealer made practical," *J. Braz. Comput. Soc.*, vol. 25, no. 1, 9:1–9:23, 2019. DOI: 10.1186/s13173-019-0090-x.
- [J4] J. Adamek, G. Farina, M. Nesterenko, and S. Tixeuil, "Evaluating and optimizing stabilizing dining philosophers," *J. Parallel Distributed Comput.*, vol. 109, pp. 63–74, 2017. DOI: 10.1016/j.jpdc.2017.05.003.

### Contributo in Atti di convegno

- [C1] P. M. Basciano, F. Patanè, G. Farina, and S. Monteleone, "Optimizing access point placement for indoor localization applications by means of genetic algorithms," in *2026 IEEE International Workshop on Metrology for Industry 4.0 & IoT (MetroInd4.0 & IoT)*, to appear, 2026.
- [C2] S. Bonomi, G. Farina, R. Friedman, E. Procaccia, and S. Tixeuil, "On imperfect byzantine common coins," in *2026 34th Euromicro International Conference on Parallel, Distributed, and Network-Based Processing (PDP)*, to appear, 2026.
- [C3] S. Bonomi, G. Farina, and S. Tixeuil, "On the solvability of byzantine-tolerant reliable communication in dynamic networks," in *Structural Information and Communication Complexity*, to appear, 2026.
- [C4] G. Farina et al., "Interoperable traceability in supply chains: A use case in agritech," in *Intelligent Transport Systems*, A. Kocian, P. Milazzo, A. L. Henriques Martins, M. Nanni, and L. Pappalardo, Eds., Cham: Springer Nature Switzerland, 2025, pp. 29–45. DOI: 10.1007/978-3-031-86370-7\_3.
- [C5] A. Kocian, G. Farina, R. Malfagia, G. Brunori, and S. Chessa, "Interoperable traceability from laboratory to practice: Strategy and experience of the agritech project," in *2025 IEEE International Workshop on Metrology for Agriculture and Forestry (MetroAgriFor)*, to appear, 2025.

- [C6] F. Scanu, G. Farina, and S. Bonomi, "Sok on DLT solutions for agri-food traceability," in *6th International Conference on Blockchain Computing and Applications, BCCA 2024, Dubai, UAE, November 26-29, 2024*, IEEE, 2024, pp. 642–647. DOI: 10.1109/BCCA62388.2024.10844463.
- [C7] S. Bonomi, G. Farina, and S. Tixeuil, "Comment extraire un discours cohérent de la confusion générale," in *AlgoTel 2023 - 25èmes Rencontres Francophones sur les Aspects Algorithmiques des Télécommunications*, Cargese, France, May 2023. [Online]. Available: <https://hal.science/hal-04086366>.
- [C8] S. Bonomi, G. Farina, and S. Tixeuil, "Reliable broadcast despite mobile byzantine faults," in *27th International Conference on Principles of Distributed Systems, OPODIS 2023, December 6-8, 2023, Tokyo, Japan*, A. Bessani, X. Défago, J. Nakamura, K. Wada, and Y. Yamauchi, Eds., ser. LIPIcs, vol. 286, Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2023, 18:1–18:23. DOI: 10.4230/LIPICS.OPODIS.2023.18.
- [C9] S. Bonomi, J. Decouchant, G. Farina, V. Rahli, and S. Tixeuil, "Comment réduire efficacement l'entropie des sources malveillantes d'information," in *AlgoTel 2022 - 24èmes Rencontres Francophones sur les Aspects Algorithmiques des Télécommunications*, Saint-Rémy-Lès-Chevreuse, France, May 2022. [Online]. Available: <https://hal.archives-ouvertes.fr/hal-03657365>.
- [C10] S. Bonomi, J. Decouchant, G. Farina, V. Rahli, and S. Tixeuil, "Practical byzantine reliable broadcast on partially connected networks," in *41st IEEE International Conference on Distributed Computing Systems, ICDCS 2021, Washington DC, USA, July 7-10, 2021*, IEEE, 2021, pp. 506–516. DOI: 10.1109/ICDCS51616.2021.00055.
- [C11] S. Bonomi, G. Farina, and S. Tixeuil, "Bloquer efficacement les "fake news" sans connaître leurs réseaux de propagation," in *ALGOTEL 2021 - 23èmes Rencontres Francophones sur les Aspects Algorithmiques des Télécommunications*, La Rochelle, France, Jun. 2021. [Online]. Available: <https://hal.archives-ouvertes.fr/hal-03220840>.
- [C12] S. Bonomi, G. Farina, and S. Tixeuil, "Boosting the efficiency of byzantine-tolerant reliable communication," in *Stabilization, Safety, and Security of Distributed Systems - 22nd International Symposium, SSS 2020, Austin, TX, USA, November 18-21, 2020, Proceedings*, S. Devismes and N. Mittal, Eds., ser. Lecture Notes in Computer Science, vol. 12514, Springer, 2020, pp. 29–44. DOI: 10.1007/978-3-030-64348-5\_3.
- [C13] S. Bonomi, G. Farina, and S. Tixeuil, "Broadcasting information in multi-hop networks prone to mobile byzantine faults," in *Networked Systems - 8th International Conference, NETYS 2020, Marrakech, Morocco, June 3-5, 2020, Proceedings*, ser. Lecture Notes in Computer Science, vol. 12129, Springer, 2020, pp. 112–128. DOI: 10.1007/978-3-030-67087-0\_8.
- [C14] S. Bonomi, G. Farina, and S. Tixeuil, "Une méthode efficace pour éviter la propagation des fake news," in *ALGOTEL 2020 - 22èmes Rencontres Francophones sur les Aspects Algorithmiques des Télécommunications*, Lyon, France, Sep. 2020. [Online]. Available: <https://hal.archives-ouvertes.fr/hal-02875967>.
- [C15] S. Bonomi, G. Farina, and S. Tixeuil, "Multi-hop byzantine reliable broadcast made practical," in *8th Latin-American Symposium on Dependable Computing, LADC 2018, Foz do Iguaçu, Brazil, October 8-10, 2018*, IEEE, 2018, pp. 155–160. DOI: 10.1109/LADC.2018.00026.

- [C16] S. Bonomi, G. Farina, and S. Tixeuil, "Reliable broadcast in dynamic networks with locally bounded byzantine failures," in *Stabilization, Safety, and Security of Distributed Systems - 20th International Symposium, SSS 2018, Tokyo, Japan, November 4-7, 2018, Proceedings*, ser. Lecture Notes in Computer Science, vol. 11201, Springer, 2018, pp. 170–185. DOI: 10.1007/978-3-030-03232-6\\_12.

### ■ Riferimenti Bibliografici

G. Scholar **T1BK7IQAAAAJ**.  
Orcid **0000-0002-4792-5305**.  
Scopus **57194491984**.

### ■ Conoscenze Linguistiche

Italiano **Madrelingua**  
Inglese **B1** (autovalutazione)  
Francese **A1** (autovalutazione)

**13/05/2026**