

## Personal Information

Name: Vincenzo Gulisano (ORCID: 0000-0002-2136-9179)  
Date of birth: 15th of April, 1984, Gemona del Friuli, Italy  
Nationality: Italian  
Web sites: vincenzogulisano.com,  
scholar.google.com/citations?user=C5IdLt4AAAAJ&hl.

## Education / Degrees

[2017] Docent Degree, Chalmers, Sweden.  
[2013] PhD in Computer Science, Polytechnic University of Madrid, Spain.  
[2008] M. Sc. In Computer Science, University of Trieste, Italy.

## Current / Previous positions

[2018 – ] Associate Professor (tenured), Computer Science and Engineering, Chalmers, Sweden.  
[2015 – 2018] Assistant Professor, Computer Science and Engineering, Chalmers, Sweden.  
[2013 – 2014] Postdoc, Computer Science and Engineering, Chalmers, Sweden.  
[2008 – 2012] PhD student, Polytechnic University of Madrid, Spain.

## Selected publications

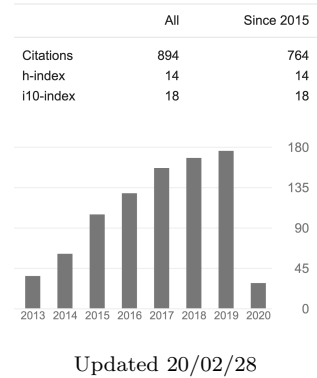
- GeneaLog: Fine-Grained Data Streaming Provenance at the Edge. D. Palyvos Giannas, V. Gulisano, M. Papatriantafilou. ACM/IFIP International Middleware conference 2018.
- Continuous and Parallel LiDAR Point-cloud Clustering. H. Najdataei, Y. Nikolakopoulos, V. Gulisano, M. Papatriantafilou. IEEE International Conference on Distributed Computing Systems 2018.
- Efficient data streaming multiway aggregation through concurrent algorithmic designs and new abstract data types. V. Gulisano, Y. Nikolakopoulos, D. Cederman, M. Papatriantafilou, P. Tsigas. ACM Transactions on Parallel Computing 2017.
- *[BEST PAPER AWARD]* Maximizing Determinism in Stream Processing Under Latency Constraints. N. Zacheilas, V. Kalogeraki, Y. Nikolakopoulos, V. Gulisano, M. Papatriantafilou, P. Tsigas. ACM International Conference on Distributed Event-Based Systems (DEBS) 2017.
- ScaleJoin: a Deterministic, Disjoint-Parallel and Skew-Resilient Stream Join. V. Gulisano, Y. Nikolakopoulos, M. Papatriantafilou, P. Tsigas. IEEE Transactions on Big Data 2016.
- StreamCloud: An Elastic and Scalable Data Streaming System. V. Gulisano, R. Jimenez-Peris, M. Patiño-Martinez, C. Soriente, P. Valduriez. IEEE Transactions on Parallel and Distributed Systems (TPDS) 2012.
- StreamCloud: A Large Scale Data Streaming System. Vincenzo Gulisano, R. Jimenez-Peris, M. Patiño-Martinez, P. Valduriez. IEEE International Conference on Distributed Computing Systems (ICDCS) 2010.

## Fellowships and Awards

[2017] Best Paper Award (Maximizing Determinism in Stream Processing Under Latency Constraints) at the ACM International Conference on Distributed Event-Based Systems (DEBS) 2017.  
[2016] Shortlisted for the pedagogical prize of the IT student union, Chalmers, Sweden.  
[2015] Best Grand Challenge Solution Award (Deterministic Real-Time Analytics of Geospatial Streams through ScaleGate Objects). ACM International Conference on Distributed Event-Based Systems.  
[2008–2012] Scholarship for PhDs co-financed by EU projects. Polytechnic University of Madrid Spain.

## External Funding

[2017 – 2020] HARE: Self-deploying and Adaptive Data Streaming Analytics in Fog Architectures. Swedish Research Council Starting Grant (main applicant, 350,000 €).  
[2017 – 2019] OODIDA: On-board Off-board Distributed Data Analytics. Sweden's Innovation Agency grant (co-applicant with Volvo, Volvo Trucks, Alkit, Fraunhofer-Chalmers Centre, 2,000,000 €).  
[2017 – 2019] Making cities more sustainable: using big and continuous data to understand urban mobility and congestions. Sweden's government research council for sustainable development grant (co-applicant with S. Yeh and M. Papatriantafilou, 280,000 €).  
[2016 – 2020] Future factories in the Cloud (FiC). Swedish Foundation for Strategic Research (involved in the proposal shaping, participating as member of the group of the co-applicant M. Papatriantafilou, Mälardalen University and Uppsala University, 3,100,000 €).  
[2016 – 2020] STAMINA: Processing and analysis of data Streams in Advanced Metering Infrastructures for Awareness and Adaptiveness in electricity grids. Wallenberg Autonomous Systems Programs



(WASP), Sweden (involved in the proposal shaping, participating as member of the group of the co-applicant M. Papatriantafilou, 220,000 €).

[2015 – 2019] Various proposals within Chalmers’ Areas of Advance units (co-applicant with Chalmers’ researchers, including M. Papatriantafilou, M. Fratarcangeli, P. Tsigas, 290,000 €)

[2015 – 2016] EXAMINE: Extracting useful information out of data in AMI networks. Göteborg Energi, Sweden (co-applicant with M. Almgren, O. Landsiedel and M. Papatriantafilou, 140,000 €)

### **Supervision of Graduate Students and Postdoctoral Fellows (Chalmers, Sweden)**

[2019 – ] Ismail Butun (Postdoc, co-supervisor).

[2018 – ] Bastian Havers (PhD student, main supervisor).

[2017 – ] Dimitris Palyvos-Giannas (PhD student, main supervisor).

[2017 – ] Romaric Duviganu (Postdoc, co-supervisor).

[2016 – ] Hannaneh Najdataei, Amir Keramatian, Joris van Rooij (PhD students, co-supervisor).

[2015 – 2016] Stefania Costache (Postdoc, co-supervisor).

[2014 – 2016] Viktor Botev (Research Engineer, Co-supervisor).

[2013 – ] >50 students’ for bachelor/master theses, [vincenzogulisano.com/theses-projects/](http://vincenzogulisano.com/theses-projects/)

### **Professional Development**

[2016] Leadership Training for High-Potential Assistant Professors, Chalmers, Sweden, 8 full days.

[2012 – 2014] Supervision and Leadership courses for a total of 15 ETCS, Chalmers, Sweden.

### **Teaching activities (selected)**

[2013 - ] ~1000h as responsible for the *Operating Systems* and *Technical writing in Computer Systems and Networks* courses. I also give lectures in the “Development of embedded and real-time systems” and “ICT Support for Adaptiveness and (Cyber)Security in the Smart Grid” courses.

### **Invited Talks**

[2017] Data streaming in IoT and Big Data Analysis. Lecture for PhD course at Mälardalens högskola.

[2016] The data streaming paradigm and its use in Fog architectures. EBSIS summer school (Sinaia, Romania), <http://ebsis.info.uaic.ro/school2016/>.

[2015] Benefits of fine-grained synchronization in deterministic and efficient stream processing. Yahoo!.

[2013] An overview of Data Streaming and Stream Processing Engines. Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento em Lisboa (INESC-ID).

### **Commissions of Trust and Organization of Scientific Meetings**

[2016 – ] Grand Challenge Chair, ACM International Conference on Distributed Event-Based Systems.

[2014 – ] PC Member at various ACM, IEEE and other conferences (including ACM Symposium on Applied Computing (SAC), ACM Distributed Event-Based Systems (DEBS), SIG SIDAR Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA))

[2014 – ] Grants, Publicity, Publication, Workshop chair at various conferences (EuroSys, ACM International Middleware Conference, SIG SIDAR Conference on Detection of Intrusions and Malware & Vulnerability Assessment, International Symposium on Research in Attacks, Intrusions and Defenses)

### **Reviewing Activities**

[2013 – present] Reviewer for several international conferences and journals, including the ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), ACM/IFIP International Middleware Conference, IEEE Transactions on Parallel and Distributed Systems, ACM International Conference on Distributed Event-Based Systems (DEBS), the International Symposium on Reliable Distributed Systems (SRDS) and the IEEE International Parallel and Distributed Processing Symposium (IPDPS).

### **Present and past collaborations**

My collaborations include V. Kalogeraki (Athens University of Economics and Business), M. Fratarcangeli (Chalmers), Y. Sourdis (Chalmers), M. Papatriantafilou (Chalmers), P. Tsigas (Chalmers), E. Medvet (University of Trieste), L. Bortolussi (University of Trieste), G. Mencagli (University of Pisa).