# Curriculum Vitae et Studiorum

## of  Gianvincenzo Alfano

**Contacts**

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| **DBLP** | link |
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# Indice

# 1 Held positions and studies' activities

## 1.1 Actual Position

From January 1st 2022 is enrolled as Assistant Professor at DIMES Dept, University of Calabria.

## 1.2 Studies, training and previous positions

He received the bachelor degree at 20 years old in Information Engineering on July 25th 2014 with thesis entitled "*Analisi e valutazione degli algoritmi di clustering della libreria Waffles*".

At 22, he received the master degree (summa cum laude) in Information Engineering on July 21th 2016, with thesis entitled "*Calcolo incrementale di semantiche deterministiche per Argumentation Frameworks*".

He obtained the PhD in Information and Communication Technologies on May 7, 2020 with thesis entitled "*Dynamic Argumentation in Artificial Intelligence*" whose supervisors are Prof. Sergio Greco and Prof. Francesco Parisi.

He was enrolled from November 2019 to December 2021 as post-doc at DIMES Dept, University of Calabria.

He won the concourse for assistant professor at DIMES Dept, University of Calabria, from January 1st 2022 to December 31 2024.

He attended several english schools: *English Language Course* at Norwich, from 17/07/2009 to 29/07/2009, and *English Language Course* at Roehampton University, London, from 15/07/2010 to 28/07/2010, obtaining the *Trinity College London Grade 5, B1.1 of the CEFR* certification with merit.

# 2 Research Activity

The research activities are mainly carried out at the Department of Computer Engineering, Modeling, Electronics and Systems (DIMES) of the University of Calabria, and in collaboration with researchers related to foreign universities or research institutes. In particular, it participates in the

1. national research group on argumentation in artificial intelligence of the Department of Computer Engineering, Modeling, Electronics and Systems (DIMES) of the University of Calabria;

2. international research group on argumentation in artificial intelligence in collaboration with researchers belonging to the Department of Computer Science and Engineering of the Universidad Nacional del Sur (Argentina), as well as the National Scientific and Technical Research Council (CONICET, Argentina);

3. he is member of the *Argumentation in Artificial Intelligence Working Group* (link)

Participation in the aforementioned research groups has led to the publication of several papers both in journals and international conferences.

The research activities are mainly based on the following topics:

- Argumentation systems

- Dynamic argumentation

- Uncertainty in Argumentation

- Preferences and Constraints on Argumentation Framework

- Argumentation and Logic Programming

# 3   Other scientific activities

He participated as a speaker, member of the program committee or reviewer, at various conferences and is reviewer for international journals.

## 3.1   Conference participation

Since 2017 he attended in several national and international conferences :

- *International Joint Conference on Artificial Intelligence (IJCAI)*,
  Vienna, July 2022, as speaker of the paper [9].

- *The Thirty-Sixth AAAI Conference on Artificial Intelligence (AAAI)*,
  Virtual Conference, February 2021, as speaker of the paper [8].

- *International Joint Conference on Artificial Intelligence (IJCAI)*,
  Virtual Conference, August 2021, as speaker of the paper [10].

- *The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI)*,
  Virtual Conference, February 2021, as speaker of the paper [11].

- *24th European Conference on Artificial Intelligence (ECAI)*
  Santiago de Compostela, Spain, 2020, as speaker of the paper [12].

- *Computational Models of Argument (COMMA)*,
  Perugia, Italy, September 4-11, 2020, as speaker of the paper [13].

- *Seventeenth International Conference on Principles of Knowledge Representation and Reasoning (KR)*, Rhodes, Greece, September 12-18, 2020, as speaker of the paper [14].

- *International Joint Conference on Artificial Intelligence (IJCAI)*,
  Macao, China, August 2019, as speaker of the paper [16].

- *18th International Conference of the Italian Association for Artificial Intelligence*,
  Rende, Italy, November 2019, as speaker of the paper [17].

- *Sixteenth International Conference on Principles of Knowledge Representation and Reasoning (KR)*,
  Tempe, Arizona, October 2018, as speaker of the paper [20].

- *33rd ACM/SIGAPP Symposium On Applied Computing (SAC)*,
  Pau, France, April 2018, as speaker of the paper [19].

- *International Database Engineering & Applications Symposium (IDEAS)*,
  Villa San Giovanni, Italy, June 2018, as speaker of the paper [21].

- *Workshop on Advances In Argumentation In Artificial Intelligence (AI³), co-located with XIX International Conference of the Italian Association for Artificial Intelligence, (AI∗IA)*,
  Online, November 2020, as speaker of the paper [23].

- *Workshop on Advances In Argumentation In Artificial Intelligence (AI³), co-located with XVI International Conference of the Italian Association for Artificial Intelligence, (AI∗IA)*,
  Bari, Italy, November 2017, as speaker of the paper [24].

- *Italian Symposium on Advanced Database Systems* (SEBD), Castellaneta Marina (Taranto), Italy, 2018, as speaker of the paper [30]

- *Italian Symposium on Advanced Database Systems* (SEBD), Squillace Lido (CZ), Italy, 2017.

**Conference organizer**

Local Organizer of the 12th Flexible Query Answering Systems International Conference (FQAS) 2019, Amantea, Italy, July 02-05, 2019.

Organizer Commitee Member of the 29th Italian Symposium on Advanced Database Systems (SEBD) , Pizzo Calabro, Italy, September 05-09, 2021.

## 3.2  Participation in cultural events

He attended several doctoral schools, training seminars, and doctoral courses.

**International Schools**

He attended the following international schools:

- $3^{rd}$ *International Winter School on Big Data.* Bari, from 13/02/2017 to 17/02/2017.

- *International School on Graph Theory, Algorithms and Applications* 4th Edition, International school on mathematics Guido Stampacchia. Erice, from 05/05/2017 to 13/05/2017

- *The Advanced Course on AI (ACAI).*
  Creta, from 01/07/2019 to 5/07/2019

- *16th Reasoning Web Summer School - RW 2020.*
  Virtual Event, from 24/06/2020 to 26/06/2020

**Participation in seminars**

He attended the following seminars:

- Deep Learning  Theory and Applications in the Natural Sciences
  Prof. Pierre Baldi, 12/09/2016

- Stochastic, Evolutionary differential games and applications in behavioral sciences
  Prof. Nicola Bellomo, 21/11/2016

- Metaquerying in Ontology-based Data Access
  Prof. Maurizio Lenzerini, 21/11/2016

- Introduction to Deep Learning, Applications and Tools
  Prof. Maryam Amir Haeri, 26/01/2017

- Combining Description Logics and ASP for Modeling and Solving Concept Learning
  Problems
  Prof. Francesca Alessandra Lisi, 09/02/2017

- Internet of Things: Research and Practice
  Prof. MengChu Zhou, 15/05/2017

- Winnowing the Wheat from the Chaff in Complex and Large Data
  Prof. Carlotta Domeniconi, 26/05/2017

- Online Social Network Analysis: Characterization of Professional Users Strategies
  Across Major Social Networks
  Prof. Noel Crespi, 21/09/2017

- La matematica dei bitcoin
  Prof. Vincenzo Vespri, 29/09/2017

- Classification methods for image processing
  Prof. Walaa Khalaf, 05/07/2018

- Ottimizzazione quadratica 0/1: metodi classici e quantistici a confronto
  Prof. Giovanni Rinaldi, 27/05/2019

- Adventures with Android Malware
  Prof. V.S. Subrahmanian, 10/07/2019

- Vulnerable Open Source Dependencies: Counting Those That Matter
  Prof. Fabio Massacci, 31/05/2019

- Dalle Macchine oltre le Macchine
  Federico Faggin, 31/05/2019

## 3.3   Review activity for journals and conferences

**Program committee member.**   He has been a member of the program committee of several international conferences and workshops, including:

- 37th *AAAI Conference on Artificial Intelligence* (AAAI 2022).

- 36th *AAAI Conference on Artificial Intelligence* (AAAI 2022).

- 35th *AAAI Conference on Artificial Intelligence* (AAAI 2021).

- 31th *International Joint Conference on Artificial Intelligence* (IJCAI 2022).

- 30th *International Joint Conference on Artificial Intelligence* (IJCAI 2021).

- 17th *Ibero-American Conference on Artificial Intelligence* (IBERIAMA 2020).

- 29th *International Joint Conference on Artificial Intelligence* e 17th *Pacific Rim International Conference on Artificial Intelligence* (IJCAI-PRICAI 2020).

- 34th, *AAAI Conference on Artificial Intelligence* (AAAI 2020).

- 4th *Workshop on Advances In Argumentation In Artificial Intelligence* (AI$^3$ 2020), in congiunzione con la 19th *International Conference of the Italian Association for Artificial Intelligence* (AIIA 2020).

- 33th *AAAI Conference on Artificial Intelligence* (AAAI 2019).

- 13th *International Conference on Flexible Query Answering Systems* (FQAS 2019).

- 3rd *Workshop on Advances In Argumentation In Artificial Intelligence* (AI$^3$ 2019), in congiunzione con la 18th *International Conference of the Italian Association for Artificial Intelligence* (AIIA 2019).

**Journals**   He participated as a reviewer in the activity of selection of articles proposed for publication in various international journals, including, *Journal of Experimental & Theoretical Artificial Intelligence*, *Intelligenza Artificiale - The international journal of the AIxIA*, *IEEE Intelligent Systems*, *Journal of Logic and Computation*.

**Conferences**   He participated, as a reviewer, in the activity of selection of articles proposed for publication at various international conferences, including *AAAI* (AAAI Conference on Artificial Intelligence), *KR* (International Conference on Principle of Knowledge Representation and Reasoning), *IJCAI* (International Joint Conference on Artificial Intelligence) *ICLP* (International Conference on Logic Programming), *COMMA* (International Conference on Computational Models of Argument), *SAC* (ACM/SIGAPP Symposium On Applied Computing), *ParLearning* (International Workshop on Parallel and Distributed Computing for Large Scale Machine Learning and Big Data Analytics), *IDEAS* (International Database Engineering & Applications Symposium), *FQAS* (International Conference on Flexible Query Answering Systems), *International Workshop on Advances In Argumentation In Artificial Intelligence* (AI$^3$), *CLAR (International Conference on Logic and Argumentation)*.

## 3.4   Scientific Board

- Member of the Editorial Board of Data Mining and Management as Review Editor for Frontiers in Big Data (link).

- Guest Editor of the special issue "Argumentation-based Systems" (link) on *Intelligent Systems with Applications*, gold open access version of the prestigious *Expert Systems with Applications* Journal.

## 3.5   Participation in research projects

He participated in the following research project: *Start-(H)Open (CUP J28C17000380006)* POR CALABRIA FESR-FSE 2014-2020, years 2019 and 2020.

## 3.6   Awards and acknowledgments

1. The paper *On the Semantics of Abstract Argumentation Frameworks: A Logic Programming Approach* [31] has been invited for the publication in the *30th International Joint Conference on Artificial Intelligence (IJCAI-21)* on which it appeared [10].

2. The paper *On the Semantics of Abstract Argumentation Frameworks: A Logic Programming Approach* [31] has been invited for the publication in the *Theory and Practice of Logic Programming* Journal on which it appeared [3].

3. Winner of the *Best Technical Paper Award* for the paper *On the Semantics of Abstract Argumentation Frameworks: A Logic Programming Approach* [31] presented as a speaker at the *36th International Conference on Logic Programming (ICLP)*, Rende, Italy, 18 - 24 September 2020.

4. Winner of the *Best Paper Award* for the Knowledge Representation and Reasoning track with the paper *On Scaling the Enumeration of the Preferred Extensions of Abstract Argumentation Frameworks* [18] presented as a speaker at the *ACM/SIGAPP Symposium On Applied Computing* (SAC), Limassol, Cyprus, April 2019.

5. The paper *Computing Stable and Preferred Extensions of Dynamic Bipolar Argumentation Frameworks* [24] has been invited for the publication in the *special issue Selected Papers from AI$^3$ 2017* of the Journal *Intelligenza Artificiale* on which it appeared [6].

6. *Student Grant Winner* at the 16th International Conference on Principles of Knowledge Representation and Reasoning (KR 2018).

# 4   Teaching activities

He held various teaching positions at the University of Calabria since 2016 among which:

- *Programming techniques*, bachelor degree in Management Engineering, at the Department of Mechanical, Energy and Management Engineering(DIMEG);

- *Elements of computational math*, bachelor degree in Information Engineering, at the Department of Computer Engineering, Modeling, Electronics and Systems Engineering (DIMES);

- *Information Systems Laboratory*, bachelor degree in Information Engineering, at the Department of Computer Engineering, Modeling, Electronics and Systems Engineering (DIMES);

- *Foundations of Informatics* (6 CFU, 15 ore di esercitazione), bachelor degree in Environmental and Chemical Engineering at the Department of Environmental Engineering (DIAm).

## 4.1   Teaching positions held in masters and doctoral courses

- *Argumentation in Artificial Intelligence* (12 hours of frontal lessons) for the PhD programme on *Information and Communication Technologies* of the Department of Computer Engineering, Modeling, Electronics and Systems (DIMES), University of Calabria, from 10 to 14 May 2021.

- Instructor (40 hours of frontal lessons) of the PhD course *Argumentation: Incremental Computation, Uncertainty, and relations with Logic Programming'* at the Department of Computer Science and Engineer, Universidad National del Sur, Bahia Blanca, Argentina. (link to the certificate)

# 5   Publications

## 5.1   Journals

**1** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, Gerardo I. Simari, Guillermo Ricardo Simari,
Incremental Computation for Structured Argumentation over Dynamic DeLP Knowledge Bases. (extended version of [20]).
*Artificial Intelligence (AI)*. Volume 300, 2021.

**2** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
Incremental Computation in Dynamic Argumentation Frameworks,
*IEEE Intelligent Systems*, doi 10.1109/MIS.2021.3077292
IEEE 2021.

**3** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi and Irina Trubitsyna,
On the Semantics of Abstract Argumentation Frameworks: A Logic Programming Approach.
*Theory Pract. Log. Program. (TPLP)*, Volume 5, Issue 5, pp. 703–718,
Cambridge University Press 2020.

**4** Gianvincenzo Alfano and Sergio Greco
Incremental Skeptical Preferred Acceptance in Dynamic Argumentation Frameworks.
*IEEE Intelligent Systems*, doi 10.1109/MIS.2021.3050521
IEEE 2021.

**5** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
An Incremental Algorithm for Computing the Grounded Extension of Dynamic Abstract Argumentation Frameworks,
*Group Decision and Negotiation (GDN)*, Volume 28, Issue 5, pp. 935–960,
Springer Nature B.V. 2019.

**6** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
A meta-argumentation approach for the efficient computation of stable and preferred extensions in dynamic bipolar argumentation frameworks,
*Intelligenza Artificiale*, vol. 12, no. 2, pp. 193-211, 2018
IOS Press, Amsterdam, The Netherlands, 2018.

**7** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, Gerardo I. Simari, Guillermo Ricardo Simari
On the Incremental Computation of Semantics in Dynamic Argumentation,
*Journal of Applied Logics - IfCoLog Journal*, Volume 8, Number 6: July 2021,
College Publications 2021.

## 5.2   International Conferences

**8** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, and Irina Trubitsyna
Incomplete Argumentation Frameworks: Properties and Complexity.
*The Thirty-Sixth AAAI Conference on Artificial Intelligence (AAAI),*
Virtual Conference February 2022.
AAAI Publications.
Association for the Advancement of Artificial Intelligence California, USA, 2022.

**9** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi and Irina Trubitsyna,
On Preferences and Priority Rules in Abstract Argumentation.
*The 31th International Joint Conference on Artificial Intelligence (IJCAI-21)*, Vienna,
July 2022.
AAAI Publications.
Association for the Advancement of Artificial Intelligence California, USA, 2022.

**10** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi and Irina Trubitsyna,
Defining the Semantics of Abstract Argumentation Frameworks through Logic Programs
and Partial Stable Models (Extended Abstract).
*The 30th International Joint Conference on Artificial Intelligence (IJCAI-21)*, Virtual
Conference 19 – 26 Agosto 2021.
AAAI Publications.
Association for the Advancement of Artificial Intelligence California, USA, 2021.

**11** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, and Irina Trubitsyna
Argumentation Frameworks with Strong and Weak Constraints: Semantics and Complexity,
*The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI),*
Virtual Conference 2 – 9 Febbraio 2021.
AAAI Publications.
Association for the Advancement of Artificial Intelligence California, USA, 2021.

**12** Gianvincenzo Alfano, Andrea Cohen, Sebastian Gottifredi, Sergio Greco, Francesco
Parisi, Guillermo Ricardo Simari,
Dynamics in Abstract Argumentation Frameworks with Recursive Attack and Support
Relations,
*24th European Conference on Artificial Intelligence (ECAI)*
Santiago de Compostela, Spain, 2020.

**13** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
Computing Skeptical Preferred Acceptance in Dynamic Argumentation Frameworks with
Recursive Attack and Support Relations,
*Computational Models of Argument (COMMA),*
Perugia, Italy, September 4-11, 2020.
Frontiers in Artificial Intelligence and Applications, volume 326, pp. 67–78.
IOS Press, 2020.

**14** Gianvincenzo Alfano, Marco Calautti, Sergio Greco, Francesco Parisi and Irina Trubitsyna,
Explainable Acceptance in Probabilistic Abstract Argumentation: Complexity and Approximation,

*Seventeenth International Conference on Principles of Knowledge Representation and Reasoning (KR)*, Rhodes, Greece, September 12-18, 2020.
AAAI Publications, pp. 33–43.
Association for the Advancement of Artificial Intelligence California, USA, 2020.

**15** Gianvincenzo Alfano
An Efficient Algorithm for Computing the Set of Semi-stable Extensions,
*13th International Conference on Flexible Query Answering Systems (FQAS)*, Amantea, Italy, July 2-5, 2019.
Lecture Notes in Computer Science, volume 11529 pp. 139–151.
Springer, 2019.

**16** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
An Efficient Algorithm for Skeptical Preferred Acceptance in Dynamic Argumentation Frameworks,
*International Joint Conference on Artificial Intelligence (IJCAI)*,
Macao, China, August 2019.
AAAI Publications, pp. 18–24.
Association for the Advancement of Artificial Intelligence California, USA, 2019.

**17** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
Is Your Argument Still Skeptically Accepted?
*18th International Conference of the Italian Association for Artificial Intelligence*,
November 2019.

**18** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
On Scaling the Enumeration of the Preferred Extensions of Abstract Argumentation Frameworks,
*34th ACM/SIGAPP Symposium On Applied Computing (SAC)*,
Limassol, Cyprus, April 2019, pp. 1147-1153.
The Association for Computing Machinery, Inc., New York, 2019.
Best Paper Award, Knowledge Representation and Reasoning Track.

**19** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, Gerardo I. Simari, Guillermo Ricardo Simari,
Incremental computation of warranted arguments in dynamic defeasible argumentation: the rule addition case,
*33rd ACM/SIGAPP Symposium On Applied Computing (SAC)*,
Pau, France, April 2018, pages 911-917.
The Association for Computing Machinery, Inc., New York, 2018.

**20** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, Gerardo I. Simari, Guillermo Ricardo Simari,
An Incremental Approach to Structured Argumentation over Dynamic Knowledge Bases,
*Sixteenth International Conference on Principles of Knowledge Representation and Reasoning (KR)*, Tempe, Arizona, October 2018.
AAAI Publications, pp. 78–87.
Association for the Advancement of Artificial Intelligence California, USA, 2018.

**21** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
Computing Extensions of Dynamic Abstract Argumentation Frameworks with Second-Order Attacks,
*International Database Engineering & Applications Symposium (IDEAS)*,
Villa San Giovanni, Italy, pages 183–192, June 2018.
The Association for Computing Machinery, Inc., New York, 2018.

**22** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
Efficient Computation of Extensions for Dynamic Abstract Argumentation Frameworks: An Incremental Approach,
*International Joint Conference on Artificial Intelligence (IJCAI)*,
Melbourne, Australia, August 2017.
AAAI Publications, pp. 49-55.
Association for the Advancement of Artificial Intelligence California, USA, 2017.

## 5.3   International Workshops

**23** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, and Irina Trubitsyna
On the Semantics of Recursive Bipolar AFs and Partial Stable Models,
*Workshop on Advances In Argumentation In Artificial Intelligence (AI³), co-located with XIX International Conference of the Italian Association for Artificial Intelligence, (AI∗IA)*
pages 16-30, Online, November 25-26 2020.
CEUR Workshop Proceedings 2020.

**24** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
Computing Stable and Preferred Extensions of Dynamic Bipolar Argumentation Frameworks,
*Workshop on Advances In Argumentation In Artificial Intelligence (AI³), co-located with XVI International Conference of the Italian Association for Artificial Intelligence, (AI∗IA)*
pages 28-42, Bari, Italy, November 2017.
CEUR Workshop Proceedings 2017.

## 5.4   Book chapters

**25** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, Gerardo I. Simari, Guillermo Ricardo Simari

On the Incremental Computation of Semantics in Dynamic Argumentation,
*Handbook of Formal Argumentation volume 2.* In press
College Publications 2021.

## 5.5    Posters

**26** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi and Irina Trubitsyna,
Defining the Semantics of Abstract Argumentation Frameworks through Logic Programs
and Partial Stable Models (Extended Abstract).
Poster Session of *30th International Joint Conference on Artificial Intelligence (IJCAI-21)*, Virtual Conference 19 – 26 Agosto 2021.

**27** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, and Irina Trubitsyna
Argumentation Frameworks with Strong and Weak Constraints: Semantics and Complexity,
Poster Session of *The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI)*,
Virtual Conference 2 – 9 Febbraio 2021.

**28** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
An Efficient Algorithm for Skeptical Preferred Acceptance in Dynamic Argumentation
Frameworks,
Poster Session of *International Joint Conference on Artificial Intelligence (IJCAI)*, Macao,
China, August 2019.

**29** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
Efficient Computation of Extensions for Dynamic Abstract Argumentation Frameworks:
An Incremental Approach,
Poster Session of *International Joint Conference on Artificial Intelligence (IJCAI)*,
Melbourne, Australia, August 2017.

## 5.6    National Conferences

**30** Gianvincenzo Alfano,
On the Incremental Computation of Argumentation Frameworks,
*Italian Symposium on Advanced Database Systems (SEBD)*,
Castellaneta Marina (Taranto), Italy, June 24-27, 2018, paper number 48.

## 5.7    Technical Report

**31** Gianvincenzo Alfano, Sergio Greco, Francesco Parisi and Irina Trubitsyna,
On the Semantics of Abstract Argumentation Frameworks: A Logic Programming Approach,
*Computing Research Repository (CoRR), arXiv abs/2008.02550.*
    *Paper presented at the 36th International Conference on Logic Programming (ICLP)*
Rende, Italy, 18-25 Settembre 2020. Best Technical Paper Award.

Rende, Italy

*Gianvincenzo Alfano*