

Curriculum Vitae et Studiorum

Francesco Parisi

March 31st, 2020

Affiliation	Associate Professor of Computer Engineering Department of Informatics, Modeling, Electronics and System Engineering (DIMES), University of Calabria
Address	Via Bucci, cube 44Z, 87036 Rende (CS), Italy
e-mail	fparisi@dimes.unical.it
Phone	(+39) 0984 494746
Web page	http://wwwinfo.dimes.unical.it/parisi
ORCID ID	0000-0001-9977-1355
Scopus author ID	36020331900
Google Scholar	link
DBLP	link
IRIS	link

1 Positions

Since November 30, 2019, he is an Associate Professor of Computer Engineering at the University of Calabria, Department of Informatics, Modeling, Electronics and System Engineering (DIMES).

Previous positions:

- From December 2016 to November 2019, Assistant Professor (RTD-B), Department of Informatics, Modeling, Electronics and System Engineering, University of Calabria, Italy.
- From December 2014 to November 2016, Assistant Professor (RTD-A), Department of Informatics, Modeling, Electronics and System Engineering, University of Calabria, Italy.
- From December 2014 to November 2016, Research Advisor, TCS Innovation Labs, Tata Consultancy Services.
- From February 2007 to November 2014, Postdoctoral Researcher, Department of Informatics, Modeling, Electronics and System Engineering, University of Calabria, Italy.

- From February to December 2008, Visiting Postdoctoral Researcher, University of Maryland Institute for Advanced Computer Studies, University of Maryland, College Park, MD 20742.

2 Education

- Ph.D. in Computer Science and Systems Engineering, University of Calabria, Italy, February, 2007. Thesis Title: *Querying Inconsistent Data: Repairs and Consistent Answers*, advisor Prof. Sergio Flesca.
- *Laurea* degree (B.Sc. and M.Sc.) with outstanding honors in Computer Science Engineering, University of Calabria, Italy, December, 2003. Thesis Title: *Integrity Constraints and Functional Dependencies in XML*, advisor Prof. Sergio Greco.

3 Research Interests

His research focuses on topics within Artificial Intelligence and Databases, particularly in the areas of inconsistency management, knowledge representation, and reasoning under uncertainty. His main research lines include:

- techniques for repairing and querying inconsistent databases and knowledge bases, also dealing with uncertain spatio-temporal information;
- inconsistency management policies aiming at accomplishing preferences specified by users;
- techniques for quantifying the degree of inconsistency in databases and knowledge bases;
- incremental computation techniques for dynamic argumentation frameworks.

4 Publications

4.1 International Journals

1 Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Francesco Parisi,
A constraint-driven sampling approach for cleaning RFID trajectory data,
Expert Systems With Applications, Volume 152, 15 August 2020.
Elsevier B.V., Amsterdam, The Netherlands, 2020.

2 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.

- 3** Francesco Parisi, Noseong Park, Andrea Pugliese, V. S. Subrahmanian, Top-k User-Defined Vertex Scoring Queries in Edge-Labeled Graph Databases, *ACM Transactions on the Web (TWEB)*, Volume 12 Issue 4, Article No. 21, November 2018. The Association for Computing Machinery, Inc., New York, 2018.
- 4** John Grant, Cristian Molinaro, Francesco Parisi Probabilistic spatio-temporal knowledge bases: Capacity constraints, count queries, and consistency checking, *International Journal of Approximate Reasoning (IJAR)*, Volume 100, September 2018, Pages 1-28, Elsevier B.V., Amsterdam, The Netherlands, 2018.
- 5** 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.
- 6** Francesco Parisi, John Grant On Repairing and Querying Inconsistent Probabilistic Spatio-temporal Databases, *International Journal of Approximate Reasoning (IJAR)*, Volume 84, May 2017, Pages 41-74, Elsevier B.V., Amsterdam, The Netherlands, 2017.
- 7** Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Francesco Parisi, Using integrity constraints to guide the interpretation of RFID-trajectory data. *ACM Special Interest Group on Spatial Information, SIGSPATIAL Special*, Volume 9, Issue 2, pages 28-35, July 2017. ACM New York, NY, USA 2017.
- 8** Francesco Parisi, John Grant Knowledge Representation in Probabilistic Spatio-Temporal Knowledge Bases, *Journal of Artificial Intelligence Research (JAIR)*, Volume 55, pp. 743-798, AI Access Foundation, El Segundo, CA, USA, and AAAI Press, Palo Alto, CA, USA, 2016.
- 9** Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Francesco Parisi, Exploiting integrity constraints for cleaning trajectories of RFID-monitored objects, *ACM Transactions on Database Systems (TODS)*, Volume 41, Issue 4, Article No. 24, 2016. The Association for Computing Machinery, Inc., New York, 2016.
- 10** Bettina Fazzinga, Sergio Flesca, Francesco Parisi, On Efficiently Estimating the Probability of Extensions in Abstract Argumentation Frameworks, *International Journal of Approximate Reasoning (IJAR)*, Volume 69, February 2016, pp. 106–132, Elsevier B.V., Amsterdam, The Netherlands, 2016.
- 11** Bettina Fazzinga, Sergio Flesca, Francesco Parisi, Adriana Pietramala Computing or Estimating Extension’s Probabilities over Structured Probabilistic Argumentation Frameworks,

IfCoLog Journal of Logics and their Applications, Special Issue on Probabilistic and other Quantitative Approaches to Computational Argumentation, Volume 3, Issue 2, pp.177-200, College Publications, Milton Keynes, UK, 2016.

12 Bettina Fazzinga, Sergio Flesca, Francesco Parisi,
On the Complexity of Probabilistic Abstract Argumentation Frameworks,
ACM Transactions on Computational Logic (TOCL), Volume 16, Issue 3, Article No. 22
The Association for Computing Machinery, Inc., New York, 2015.

13 Sergio Flesca, Filippo Furfaro, Francesco Parisi,
Consistency Checking and Querying in Probabilistic Databases under Integrity Constraints,
Journal of Computer and System Sciences (JCSS), Volume 80, Issue 7, November 2014,
pp. 1448-1489
Elsevier B.V., Amsterdam, The Netherlands, 2014.

14 Maria Vanina Martinez, Francesco Parisi, Andrea Pugliese, Gerardo I. Simari, V. S. Subrahmanian,
Policy-based Inconsistency Management in Relational Databases,
International Journal of Approximate Reasoning (IJAR), Volume 55, Issue 2, January 2014, pp. 501-528
Elsevier B.V., Amsterdam, The Netherlands, 2014.

15 Francesco Parisi, Amy Sliva, V. S. Subrahmanian,
A Temporal Database Forecasting Algebra,
International Journal of Approximate Reasoning (IJAR), Volume 54, Issue 7, September 2013, pp. 827-860
Elsevier B.V., Amsterdam, The Netherlands, 2013.

16 Sergio Flesca, Filippo Furfaro, Francesco Parisi,
Querying and Repairing Inconsistent Numerical Databases,
ACM Transactions on Database Systems (TODS), Volume 35(2), Article 14 (April 2010).
The Association for Computing Machinery, Inc., New York, 2010

17 John Grant, Francesco Parisi, Austin Parker, V.S. Subrahmanian,
An AGM-style Belief Revision Mechanism for Probabilistic Spatio-Temporal Logics,
Artificial Intelligence (AI), Volume 174 (1), pp. 72-104.
Elsevier B.V., Amsterdam, The Netherlands, 2010.

4.2 Patents

18 Inventors: Arindam Pal, Francesco Parisi, V.S. Subrahmanian, Subhra Mazumdar
Title of Invention: Systems and methods for planning location-sensitive probabilistic behavior based evacuation paths
Applicant Name: Tata Consultancy Services Limited
Europe Application Number:EP16179898
US Application Number:15/213877
Patent number: 10296996

4.3 Research Monographs

19 Sergio Flesca, Filippo Furfaro, Francesco Parisi,
Repairing and Querying Databases under Aggregate Constraints,
SpringerBriefs in Computer Science, ISSN 2191-5768 (e-ISSN 2191-5776), ISBN 978-1-4614-1640-1 (e-ISBN 978-1-4614-1641-8)
Springer New York Dordrecht Heidelberg London, Springer 2011

4.4 International Conferences

20 Francesco Parisi, John Grant,
Measuring Inconsistency in Relational Databases with Denial Constraints,
24th European Conference on Artificial Intelligence (ECAI)
Santiago de Compostela, Spain, 2020.

21 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.

22 John Grant, Francesco Parisi,
Measuring Inconsistency in a General Information Space,
International Symposium on Foundations of Information and Knowledge Systems (FoIKS),
Dortmund, Germany, 2020, Lecture Notes in Computer Science, vol 12012, pp. 140-156.
Springer, Cham, 2020.

23 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.

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

25 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.

- 26** 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.
- 27** 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.
- 28** 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.
- 29** 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.
- 30** John Grant, Cristian Molinaro, Francesco Parisi,
Count Queries in Probabilistic Spatio-Temporal Knowledge Bases with Capacity Con-
straints,
*European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncer-
tainty (ECSQARU)*,
Lugano, Switzerland, July 2017.
Lecture Notes in Computer Science, vol. 10369, pp. 459-469.
Springer 2017.
- 31** Sergio Greco, Francesco Parisi,
Incremental Computation of Deterministic Extensions for Dynamic Argumentation Frame-
works,
15th European Conference On Logics In Artificial Intelligence (JELIA),
Larnaca, Cyprus, 2016,
Lecture Notes in Computer Science, vol. 10021, pp. 288-304.
Springer 2016.

32 Bettina Fazzinga, Sergio Flesca, Francesco Parisi, Adriana Pietramala
PARTY: A Mobile System for Efficiently Assessing the Probability of Extensions in a
Debate,
International Conference on Database and Expert Systems Applications (DEXA),
Valencia, Spain, September 2015,
Lecture Notes in Computer Science, volume 9261, pp 220-235.
Springer 2015.

33 Francesco Parisi, John Grant
Integrity Constraints for Probabilistic Spatio-Temporal Knowledgebases,
International Conference on Scalable Uncertainty Management (SUM),
Oxford, UK, September 2014,
Lecture Notes in Computer Science, volume 8720, 2014, pp 251-264.
Springer 2014.

34 Francesco Parisi, John Grant
Repairs and Consistent Answers for Inconsistent Probabilistic Spatio-Temporal Databases,
International Conference on Scalable Uncertainty Management (SUM),
Oxford, UK, September 2014,
Lecture Notes in Computer Science, volume 8720, 2014, pp 265-279.
Springer 2014.

35 Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Francesco Parisi,
Offline cleaning of RFID trajectory data,
International Conference on Scientific and Statistical Database Management (SSDBM),
Aalborg, Denmark, June 30 - July 2, 2014, article n. 5.
The Association for Computing Machinery, Inc., New York, 2014.

36 Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Francesco Parisi,
Cleaning trajectory data of RFID-monitored objects through conditioning under integrity
constraints,
International Conference on Extending Database Technology (EDBT),
Athens, Greece, March 2014,
ISBN 978-3-89318065-3, OpenProceedings.org, pp. 379-390.
University of Konstanz 78457 Konstanz, Germany, 2014.

37 Bettina Fazzinga, Sergio Flesca, Francesco Parisi,
On the Complexity of Probabilistic Abstract Argumentation,
International Joint Conference on Artificial Intelligence (IJCAI),
Beijeng, China 2013.
AAAI Publications, pp. 898-904.
Association for the Advancement of Artificial Intelligence California, USA, 2013.

38 John Grant, Cristian Molinaro, Francesco Parisi,
Aggregate Count Queries in Probabilistic Spatio-temporal Databases,
International Conference on Scalable Uncertainty Management (SUM),
Washington, DC, USA, September 2013,

Lecture Notes in Computer Science 8078, pp 255-268.
Springer-Verlag Berlin Heidelberg, Germany, 2013.

39 Bettina Fazzinga, Sergio Flesca, Francesco Parisi,
Efficiently Estimating the Probability of Extensions in Abstract Argumentation,
International Conference on Scalable Uncertainty Management (SUM),
Washington, DC, USA, September 2013,
Lecture Notes in Computer Science 8078, pp 106-119.
Springer-Verlag Berlin Heidelberg, Germany, 2013.

40 Francesco Parisi, Amy Sliva, V. S. Subrahmanian,
Embedding Forecast Operators in Databases
International Conference on Scalable Uncertainty Management (SUM),
Dayton, Ohio, October 2011,
Lecture Notes in Computer Science 6929, pp. 373-386.
Springer-Verlag Berlin Heidelberg, Germany, 2011.

41 Alfredo Garro, Francesco Parisi, Wilma Russo,
A Model-Driven Architecture Approach for Agent-Based Modeling and Simulation
International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH),
Noordwijkerhout, Netherlands, 2011, pp. 74-83.
SciTePress 2011, ISBN 978-989-8425-78-2.

42 Sergio Flesca, Filippo Furfaro, Francesco Parisi,
Range-Consistent Answers of Aggregate Queries under Aggregate Constraints,
International Conference on Scalable Uncertainty Management (SUM),
Toulouse, France, September 2010.
Lecture Notes in Computer Science 6379, pp. 163-176.
Springer-Verlag Berlin Heidelberg, Germany, 2010.

43 Maria Vanina Martinez, Francesco Parisi, Andrea Pugliese, Gerardo I. Simari, V. S. Subrahmanian,
Efficient Policy-based Inconsistency Management in Relational Knowledge Bases,
International Conference on Scalable Uncertainty Management (SUM),
Toulouse, France, September 2010.
Lecture Notes in Computer Science 6379, pp. 264-277.
Springer-Verlag Berlin Heidelberg, Germany, 2010.

44 Sergio Flesca, Filippo Furfaro, Francesco Parisi,
Consistent Answers to Boolean Aggregate Queries under Aggregate Constraints,
International Conference on Database and Expert Systems Applications (DEXA),
Bilbao, Spain, September 2010.
Lecture Notes in Computer Science 6262, pp. 285-299.
Springer-Verlag Berlin Heidelberg, Germany, 2010.

45 Maria Vanina Martinez, Francesco Parisi, Andrea Pugliese, Gerardo I. Simari, V. S. Subrahmanian,
Inconsistency Management Policies,
International Conference on Principle of Knowledge Representation and Reasoning (KR),
Sydney, Australia, September, 2008.
AAAI Press 2008, pp. 367-376.
Association for the Advancement of Artificial Intelligence, California, 2008.

46 Sergio Flesca, Filippo Furfaro, Francesco Parisi,
Preferred Database Repairs Under Aggregate Constraints,
International Conference on Scalable Uncertainty Management (SUM),
Washington, U.S.A., October 2007.
Lecture Notes in Computer Science 4772, pp. 215-229.
Springer-Verlag Berlin Heidelberg, Germany, 2007.

47 Sergio Greco, Cristian Molinaro, Francesco Parisi,
Preference Rules in Database Querying,
International Conference on Enterprise Information Systems (ICEIS),
Funchal (Madeira) Portugal, June 2007, pp.119-124.
INSTICC - Institute for Systems and Technologies of Information, Control and Commu-
nication, Portugal, 2007.

48 Sergio Flesca, Filippo Furfaro, Francesco Parisi,
Consistent Query Answers on Numerical Databases under Aggregate Constraints,
International Symposium on Database Programming Language (DBPL), Trondheim, Nor-
way, August 2005.
Lecture Notes in Computer Science 3774, pp. 279-294.
Springer-Verlag Berlin Heidelberg, Germany, Springer 2005.

4.5 International Workshops

49 Gianvincenzo Alfano, Sergio Greco, Francesco Parisi,
Computing Stable and Preferred Extensions of Dynamic Bipolar Argumentation Frame-
works,
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.

50 Sergio Greco, Francesco Parisi,
Incremental Computation of Deterministic Extensions for Abstract Argumentation Frame-
works,
International ECAI-Workshop on Conflict Resolution in Decision Making (COREDEMA)–
Revised Selected Papers,
The Hague, Netherlands, 2016. Lecture Notes in Computer Science 10238, pp. 66–81.
Springer-Verlag Berlin Heidelberg, Germany, Springer 2017.

51 Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Francesco Parisi,
DART: a Data Acquisition and Repairing Tool,
International EDBT-Workshop on Inconsistency and Incompleteness in Databases (IIDB),
Munich, Germany, March 2006.
Lecture Notes in Computer Science 4254, pp. 297-317.
Springer-Verlag Berlin Heidelberg, Germany, Springer 2006.

4.6 Book Chapters

52 Marco Calautti, Luciano Caroprese, Bettina Fazzinga, Sergio Flesca, Filippo Furfaro,
Sergio Greco, Cristian Molinaro, Francesco Parisi, Andrea Pugliese, Domenico Saccà,
Irina Trubitsyna, Ester Zumpano
Dealing with Inconsistency in Databases: An Overview,
A Comprehensive Guide Through the Italian Database Research Over the Last 25 Years,
Studies in Big Data, volume 31, pp. 143-167.
Springer International Publishing AG 2018.

53 John Grant, Maria Vanina Martinez, Cristian Molinaro, Francesco Parisi
On Measuring Inconsistency in Spatio-Temporal Databases,
Measuring Inconsistency in Information, Studies in Logic, volume 73, pp. 313-342.
College Publications 2018.

54 Francesco Parisi, John Grant, V.S. Subrahmanian,
Research in Probabilistic Spatiotemporal Databases: The SPOT Framework,
Advances in Probabilistic Databases for Uncertain Information Management Studies in
Fuzziness and Soft Computing, Volume 304, 2013, pp 1-22
Z. Ma and L. Yan, Eds.
Springer-Verlag Berlin Heidelberg, Germany, Springer 2013.

55 Alfredo Garro, Francesco Parisi, Wilma Russo,
A process based on the Model-Driven Architecture to enable the definition of Platform-
Independent simulation Models
Simulation and Modeling Methodologies, Technologies and Applications Advances in In-
telligent Systems and Computing, Volume 197, 2013, pp 113-129
Nuno, P., Janusz K., Joaquim F., (Eds).
Springer-Verlag Berlin Heidelberg, Germany, Springer 2013.

56 Francesco Parisi, Austin Parker, John Grant, V.S. Subrahmanian,
Scaling Cautious Selection in Spatial Probabilistic Temporal Databases,
Methods for Handling Imperfect Spatial Information, Studies in Fuzziness and Soft Com-
puting, 2010, Volume 256, pp. 307-340,
Jeansoulin, R.; Papini, O.; Prade, H.; Schockaert, S. (Eds.).
Springer-Verlag Berlin Heidelberg, Germany, 2010.

57 John Grant, Francesco Parisi
Logic and Knowledge Bases,
Encyclopedia of knowledge management, Second Edition, Volume II, pp.1022-1033,

Schwartz, D. G.; Te'eni, D. (Eds.).
Information Science Reference, IGI Global, USA, 2010.

4.7 Posters and Short Papers

58 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.

59 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.

60 Sergio Greco, Francesco Parisi,
Efficient Computation of Deterministic Extensions for Dynamic Abstract Argumentation
Frameworks,
22nd European Conference on Artificial Intelligence (ECAI).
The Hague, Netherlands, September 2016,
Frontiers in Artificial Intelligence and Applications, IOS Press 2016, pp 1668 - 1669.

61 Bettina Fazzinga, Sergio Flesca, Francesco Parisi,
On the Complexity of Probabilistic Abstract Argumentation,
Poster Session of *International Joint Conference on Artificial Intelligence (IJCAI)*, Bei-
jing, China 2013.

62 Alfredo Garro, Francesco Parisi, Wilma Russo,
Model-Driven Development for Agent-Based Modeling and Simulation
Poster Session of *International Conference on Complex Systems Design and Management*,
Paris, France, 2010.

4.8 National Conferences

63 Bettina Fazzinga, Sergio Flesca, Francesco Parisi,
Probabilistic Argumentation: complexity results,
Italian Symposium on Advanced Database Systems (SEBD),
Roccella Jonica, Reggio Calabria, Italy, June 2013, pp. 343-350.

64 Sergio Greco, Cristian Molinaro, Francesco Parisi,
Exploiting Preference Rules for Querying Databases,
Italian Symposium on Advanced Database Systems (SEBD),
Torre Canne, Fasano (BR), Italy,
June 2007, pp. 405-413.
Sagraf srl - Z.I. Capurso (BA), 2007.

65 Sergio Flesca, Filippo Furfaro, Elio Masciari, Francesco Parisi,
A Framework for XPath Queries Minimization,
Italian Symposium on Advanced Database Systems (SEBD), S. Margherita di Pula (CA),
Italy, June 2004, pp. 326-333.
LITHOSgrafiche - Cagliari, 2004.

4.9 Technical reports

66 Francesco Parisi, John Grant,
Inconsistency Measures for Relational Databases.
Computing Research Repository (CoRR), *arXiv abs/1904.03403*.

67 Subhra Mazumdar, Arindam Pal, Francesco Parisi, V.S. Subrahmanian,
BB_Evac: Fast Location-Sensitive Behavior-Based Building Evacuation,
Computing Research Repository (CoRR), *arXiv abs/2002.08114*.

5 Research Projects

He has been involved and collaborated in the following research projects:

- *Digital Identity and Service Accountability*, Horizon 2020 PON I&C 2014-2020 FERS, 2018–2020.
- *Medical Information System for 3D Complex Pathologies*, financed by the Calabrian government, 2017–2019.
- *End-user protection*, financed by Italian Ministry of University and Research, 2014–2016.
- *LOGIN - Integrated Logistic*, financed by Italian Ministry of University and Research, 2012–2014.
- *TETRis - Innovative Open Source Services over TETRA*, financed by Italian Ministry of University and Research, 2011–2012.
- *OpenKnowTech - Experimentation of Technologies for the Integration, Management and Distribution of Data, Processes and Knowledge*, financed by Italian Ministry of University and Research, 2010.
- *PIA Pitagora S.p.a. - Techniques for extracting, correlating and presenting enterprise information*, 2007–2008.
- *PROMIS - Logistic PROcess Management and Intelligence System*, financed by EC and Italian Ministry of University and Research, 2007.
- *Logica - Regional technological logistics laboratory*, financed by Italian Ministry of University and Research, 2006–2007.
- *ICT-LAB - Research in the ICT area*, financed by the Calabrian government, 2005–2006.

- *PILOT - Software systems for the interoperability of logistics and transportation*, financed by the Italian Ministry of University and Research, 2005-2006.
- *TRAME - E-learning methodologies applied to SME*, financed by the Italian Ministry of Labour, 2004.

He was the Project leader of the research project *Repairing and Querying Inconsistent Databases* financed by the University of Calabria Young Researchers Found, 2007-2008.

6 Service

He is co-editor of the Special Issue on *Argumentation-Based Reasoning* of the journal *IEEE Intelligent Systems*.

He has served as referee of several well-known international journals, including the following:

- *IEEE Transactions on Knowledge and Data Engineering* (TKDE).
- *ACM Transactions on Computational Logic* (TOCL).
- *ACM Journal of Data and Information Quality* (JDIQ).
- *Proceedings of the VLDB Endowment* (PVLDB).
- *Expert Systems with Applications* (ESWA) Elsevier.
- *Artificial Intelligence* (AI) Elsevier.
- *International Journal of Approximate Reasoning* (IJAR) Elsevier.
- *Journal of Artificial Intelligence Research* (JAIR), AAAI Press.
- *Knowledge and Information Systems* (KAIS), Springer.

He got a *Certificate of Outstanding Contribution in Reviewing* from the top-tier journal *Artificial Intelligence* (AI) Elsevier.

He has been a member of the Program Committee of several international conferences and workshops, including the following:

- 29th *International Joint Conference on Artificial Intelligence* e 17th *Pacific Rim International Conference on Artificial Intelligence* (IJCAI-PRICAI 2020).
- 14th *International Conference on Scalable Uncertainty Management* (SUM 2020).
- 34th *AAAI Conference on Artificial Intelligence* (AAAI 2020).
- 28th *International Joint Conference on Artificial Intelligence* (IJCAI 2019), *IJCAI 2019 Distinguished Program Committee member*.
- 13th *International Conference on Scalable Uncertainty Management* (SUM 2019).

- 11th *International Symposium on Imprecise Probabilities: Theories and Applications* (ISIPTA 2019).
- 13th *International Conference on Flexible Query Answering Systems* (FQAS 2019).
- 3rd *Workshop on Advances In Argumentation In Artificial Intelligence* (AI³ 2019), in conjunction with 18th *International Conference of the Italian Association for Artificial Intelligence* (AIIA 2019).
- 27th *International Joint Conference on Artificial Intelligence* and 23rd *European Conference on Artificial Intelligence* (IJCAI-ECAI 2018).
- 12th *International Conference on Scalable Uncertainty Management* (SUM 2018).
- 10th *International Conference on Advances in Databases, Knowledge, and Data Applications* (DBKDA 2018).
- 7th *International Workshop on Parallel and Distributed Computing for Large Scale Machine Learning and Big Data Analytics* (ParLearning 2018), in conjunction with 32nd *IEEE International Parallel & Distributed Processing Symposium* (IPDPS 2018).
- 11th *International Conference on Scalable Uncertainty Management* (SUM 2017).
- 9th *International Conference on Advances in Databases, Knowledge, and Data Applications* (DBKDA 2017).
- 6th *International Workshop on Parallel and Distributed Computing for Large Scale Machine Learning and Big Data Analytics* (ParLearning 2017).
- *International Workshop on Algorithms, Tools and new Frontiers on the use of Networks in Biology and Clinical Science* (BioNet 2017), in conjunction with 12th *International Conference on Future Networks and Communications* (FNC 2017).
- 25th *International Joint Conference on Artificial Intelligence* (IJCAI 2016).
- 8th *International Conference on Advances in Databases, Knowledge, and Data Applications* (DBKDA 2016).
- 5th *International Workshop on Parallel and Distributed Computing for Large Scale Machine Learning and Big Data Analytics* (ParLearning 2016), in conjunction with *IEEE International Parallel & Distributed Processing Symposium* (IPDPS 2016).
- 6th *International Conference on Scalable Uncertainty Management* (SUM 2012).
- 5th *International Conference on Scalable Uncertainty Management* (SUM 2011).

He has served as referee for several international conferences and workshops, including the following:

- *PODS* (Symposium on Principles of Database Systems).

- *KR* (International Conference on Principle of Knowledge Representation and Reasoning).
- *IJCAI* (International Joint Conference on Artificial Intelligence).
- *VLDB* (International Conference on Very Large Data Bases),
- *CIKM* (ACM Conference on Information and Knowledge Management).
- *ICDE* (International Conference on Data Engineering).
- *SSDBM* (International Conference on Scientific and Statistical Database Management).
- *SAC* (ACM/SIGAPP Symposium On Applied Computing).
- *SUM* (International Conference on Scalable Uncertainty Management).
- *FOIKS* (Foundations of Information and Knowledge Systems).
- *WWW* (International World Wide Web Conference).
- *DAWAK* (International Conference on Data Warehousing and Knowledge Discovery).
- *IDEAS* (International Database Engineering & Applications Symposium).
- *RR* (International Conference on Web Reasoning and Rule Systems).
- *ABDIS* (Conference on Advances in Databases and Information Systems).
- *ARES* (International Conference on Availability, Reliability and Security).
- *IADIS* (International Conference on Applied Computing).
- *M-PREF* (Multidisciplinary Workshop on Advances in Preference Handling).
- *WIDM* (International Workshop on Web Information and Data Management).
- *CCIA* (International Conference of the Catalan Association of Artificial Intelligence).
- *SEBD* (Italian Symposium on Advanced Database Systems).

7 Teaching

Professor of the following courses at University of Calabria:

- Lab of Information Systems, for B.Sc. degree students in Computer Engineering, academic year 2019-2020.
- Design of Information Systems, for M.Sc. degree students in Statistics and Informatics for Business and Finance, academic years 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020.

- Fundamentals of Computer Science, for B.Sc. degree students in Environmental and Chemical Engineering, academic year 2019-2020.
- Fundamentals of Computer Science for B.Sc. degree students in Civil Engineering, academic years 2017-2018, 2018-2019.

Adjunct Professor of the following courses at University of Calabria:

- *Introduction to Computer Science and Basic Computer Lab*, for M.Sc. degree students in Law, academic years 2011-2012, 2012-2013, and 2013-2014.
- *Enterprise Information Systems*, for B.Sc. degree students in Quantitative Methods for Economics and Business Management, academic years 2009-2010 and 2010-2011.
- *Computer Systems and Networks*, for B.Sc. degree students in Management Engineering, academic years 2006-2007, 2008-2009, and 2009-2010.
- *Programming Languages*, for M.Sc. degree students in Mechanics Engineering, academic year 2007-2008.
- *Foundations of Computer Science III*, for B.Sc. degree students in Administration Sciences, academic year 2007-2008.

Teaching Assistant of the following courses at University of Calabria:

- *Databases*, for B.Sc. degree students in Computer Engineering, academic years 2005-2006, 2004-2005, 2012-2013, and 2013-2014.
- *Algorithms and Data Structures*, for B.Sc. degree students in Computer Engineering, academic years 2004-2005, 2005-2006, and 2006-2007.
- *Foundations of Computer Science*, for B.Sc. degree students in Engineering, academic year 2004-2005.
- *Computer Systems and Networks*, for B.Sc. degree students in Management Engineering, academic year 2003-2004.
- *Foundations of Computer Science I*, for B.Sc. degree students in Political Sciences, academic year 2003-2004.
- *Foundations of Computer Science I*, for B.Sc. degree students in Social Sciences, academic year 2003-2004.

Advisor of several M.Sc. thesis in Statistics and Informatics for Business and Finance (Department of Economics, Statistics and Finance, University of Calabria) and B.Sc. and M.Sc. thesis in Computer Engineering (Department of Informatics, Modeling, Electronics and System Engineering, University of Calabria).