

Curriculum Vitæ et Studiorum

Francesco Gullo



Date and Place of Birth: March 17, 1982 — Cosenza, Italy
Citizenship: Italian
Languages: Italian (native), English (fluent), Spanish (conversant/proficient)
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[LinkedIn](#) [ResearchGate](#) [Google Scholar](#)
[Scopus](#) [GitHub](#) [Semantic Scholar](#)

SHORT BIO

Francesco Gullo is an *Associate Professor* of computer science at the *University of L’Aquila* (UnivAQ), Italy, in the *Department of Information Engineering, Computer Science, and Mathematics* (DISIM). He got his PhD, in “*Computer and Systems Engineering*”, from the *University of Calabria* (Italy), in 2010. Before joining UnivAQ, he held positions (at various seniority levels) at the *University of Calabria* and *University of Catanzaro* (Italy), *George Mason University* (US), *Yahoo Labs* and *Fundacio Barcelona Media* (Spain), *UniCredit* banking group (Italy).

His research falls into the broad areas of *artificial intelligence* and *data science*, with emphasis on *algorithmic* aspects. His recent interests include *graph machine learning*, *graph data management*, *natural language processing*, and *trustworthy AI*. Within these areas/topics, he has got 100+ publications, mostly in premier venues, including PVLDB, SIGMOD, KDD, WWW, ICDM, WSDM, CIKM, TODS, TKDE, TKDD, MLJ, DAMI, TNSE, PR.

He has also actively served the scientific community: he was/is/will be Associate Editor of EPJ Data Science and IJDSA journals, General co-Chair of WSDM’26, Finance Chair of CIKM’24, ADS Track PC co-Chair of ECML-PKDD’26, Workshop co-Chair of KDD’24 and ICDM’16, Industry Track PC co-Chair of ASONAM’24. He has also been an organizer of several workshops and similar satellite events of conferences, as well as stably part of the (senior) PC of top-tier conferences, including PVLDB, SIGMOD, ICDE, KDD, WWW, IJCAI, AAAI, SIGIR, ICDM, WSDM, CIKM.

WORK EXPERIENCE (APPOINTMENTS)

- [Mar'24 – present] **Associate Professor** of Computer Science
University of L'Aquila; Department of Information Engineering, Computer Science, and Mathematics (DISIM)
L'Aquila, Italy
- [Sep'22 – Feb'24] **Researcher (senior associate)**
UniCredit banking group; UniCredit (holding) company; “Group Data & Intelligence” department
Rome, Italy
- [Jul'20 – Aug'22] **Researcher (senior associate)**
UniCredit banking group; UniCredit Services (controlled) company
“AI, Data & Analytics ICT” department; “Applied Research & Innovation” (ARI) unit
Rome, Italy
- [Jul'15 – Jun'20] **Researcher (associate)**
UniCredit banking group; UniCredit (holding) company; “Research & Development” (R&D) department
Rome, Italy
- [Mar'15 – Jun'15] **Research Scientist**
Fundació Barcelona Media (now part of Eurecat); Barcelona, Spain
- [Sep'13 – Feb'15] **Research Scientist**
Yahoo Labs; “Web Mining” group; Barcelona, Spain
- [Sep'11 – Aug'13] **Postdoctoral Researcher**
Yahoo Labs; “Web Mining” group; Barcelona, Spain
- [Jan'10 – Aug'11] **Postdoctoral Researcher (“*assegnista di ricerca*”)**
University of Calabria; DEIS (now DIMES) department; Cosenza, Italy
- [Apr'09 – Sep'09] **Short-term Visiting Scholar**
George Mason University; “Data Mining & Machine Learning” group headed by Prof. Carlotta Domeniconi
Fairfax, VA – USA
- [Jan'06 – Aug'11] **Research & Teaching Assistant**
University of Calabria
Department of Computer Science, Modeling, Electronics and Systems Engineering (DIMES, former DEIS)
Cosenza, Italy
- [Jan'06 – Aug'11] **Research & Teaching Assistant**
“Magna Græcia” University of Catanzaro; Department of Medicine and Surgery; Catanzaro, Italy

EDUCATION

- [Jan'10] **Ph.D.** in Computer and Systems Engineering [*with highest honors*]
University of Calabria, Italy
Thesis: *Overcoming Uncertainty and the Curse of Dimensionality in Data Clustering*
Advisor: prof. Sergio Greco
- [Dec'05] **M.Sc.** in Computer Engineering [*cum laude*]
University of Calabria, Italy
Thesis: *Querying and Repairing Inconsistent XML Databases*
Advisor: prof. Sergio Greco
- [Oct'03] **B.Sc.** in Computer Engineering [*cum laude*]
University of Calabria, Italy
Thesis: *Semistructured Data and XML*
Advisor: prof. Sergio Greco

RESEARCH ACTIVITY

His research falls into the broad areas of *artificial intelligence* and *data science*, with special emphasis on *algorithmic* aspects, i.e., on *formulating, theoretically characterizing, and designing effective yet efficient algorithms* for (novel) problems that are useful to gain insights/information/knowledge from data.

As far as data types, special emphasis has been given to *graphs, text, and temporal data*, but he has also dealt with tabular data, probabilistic data, and semistructured data. *Large-scale data processing* and *combinatorial optimization* are frequently-occurring keywords in his work.

More specifically, his recent research interests include:

- Graph machine learning [1, 4, 5, 26, 90]
 - graph representation learning; graph neural networks; machine/graph learning for combinatorial optimization; deep/reinforcement learning paradigms for graph clustering; knowledge graphs; graph classification;
- Graph data management [2, 3, 6, 58, 11, 15, 17, 27, 28, 29, 32, 33, 36, 37, 38, 41, 42, 43, 44, 46, 47, 64, 92]
 - dense-subgraph discovery; graph summarization; reachability/distance queries on graphs; graph pattern mining; graph clustering; querying graph databases; link prediction;
- Natural Language Processing (NLP) [8, 34, 63, 66]
 - large language models; natural language generation; question answering; word embeddings; text classification; information extraction from text; sentiment analysis/transfer; text summarization; entity recognition and disambiguation;
- Ethics and trustworthiness in data management and AI (algorithmic fairness, explainable AI, interpretability, transparency, privacy, responsible AI, sustainable AI) [62]
- AI in finance [7, 31]

Other topics/problems he has focused on in the past include (*social*) *Web mining* (e.g., discovering polarized communities, social-network analysis, information propagation in online services, community search/detection, social-influence analysis, personalization of online services) [9, 12, 14, 16, 30, 35, 39, 45, 47, 68, 93, 95], *mining high-dimensional/multifaceted data* (i.e., projective/subspace clustering, clustering ensembles, projective clustering ensembles) [59, 18, 20, 48, 49, 51, 52, 53, 86, 67, 94], *clustering uncertain data* [13, 19, 21, 40, 50, 54, 65, 71, 98, 99], *time-series data management* [24, 69, 100], *bioinformatics* [22, 25, 70, 72, 73], *XML data management* [23, 75, 97].

SCIENTIFIC COMMUNITY SERVICE

EDITORIAL
BOARDS OF
JOURNALS

Associate Editor

EPJ Data Science journal
[Nov 2023 – present]

Associate Editor

International Journal of Data Science and Analytics (IJDSA) journal
[Jul 2024 – present]

Associate Editor

Frontiers in Big Data journal
Data mining and Management section
[Jul 2021 – Mar 2025]

Guest Editor

Journal Track of the European Conference on Machine Learning and Principles and Practice of

Knowledge Discovery in Databases (ECML PKDD JT)
[2020–2023]

ORGANIZING
COMMITTEES
OF
CONFERENCES

General co-Chair

19th ACM International Conference on Web Search and Data Mining (WSDM ‘26)

Applied Data Science Track Program Committee co-Chair

37th—30th European Conference on Machine Learning and Principles and Practice of Knowledge Discovery (ECML-PKDD ‘26)

Finance Chair

32nd ACM International Conference on Information and Knowledge Management (CIKM ‘24)

Industry Track Program Committee co-Chair

16th International Conference on Social Networks Analysis and Mining (ASONAM ‘24)

Workshop co-Chair

30th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD‘24)

Workshop co-Chair

16th IEEE International Conference on Data Mining (ICDM ‘16)

ORGANIZATION
OF WORKSHOPS
&
SIMILAR
SATELLITE
EVENTS OF
CONFERENCES

Program co-Chair

[1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th] Workshop on Mining Data for financial applications (MIDAS [‘16, ‘17, ‘18, ‘19, ‘20, ‘21, ‘22, ‘23, ‘24, ‘25])

In conjunction with the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery (ECML-PKDD [‘16, ‘17, ‘18, ‘19, ‘20, ‘21, ‘22, ‘23, ‘24, ‘25])

Program co-Chair

1st Workshop on Innovations, Privacy-preservation, and Evaluations Of machine Unlearning Techniques (WIPE-OUT)

In conjunction with the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery (ECML-PKDD ‘25)

Industrial Session co-Chair

[2nd, 3rd] International Conference on Machine Learning, Optimization and Big Data (MOD [‘16, ‘17])

Program co-Chair

Mini-Symposium on Multiple Clusterings, Multi-view Data, and Multi-source Knowledge-driven Clustering (MultiClust ‘14)

In conjunction with the 2014 SIAM Int. Conf. on Data Mining (SDM ‘14)

Program co-Chair

4th MultiClust Workshop: Multiple Clusterings, Multi-view Data, and Multi-source Knowledge-driven Clustering

In conjunction with the 19th ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD ‘13)

Program co-Chair

1st International Workshop on Multi-view data, High-dimensionality, External Knowledge: Striving for a Unified Approach to Clustering (3Clust ‘12)

In conjunction with the 16th Pacific-Asia Conf. on Knowledge Discovery and Data Mining (PAKDD ‘12)

OTHER
BOARDS

Guest Editor

Journal Track of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD JT)
[2020–2025]

Distinguished Reviewer Board member

ACM Transactions on the Web (TWEB)

[2022–2024]

Scientific Committee member

“*Data Science for Economics and Finance: Methodologies and Applications*” book

Editors: S. Consoli, D. Reforgiato Recupero, M. Salsana. Publisher: Springer Nature.

[2020]

PROGRAM COMMITTEES (MAJOR CONFERENCES)	<i>Proceedings of the VLDB Endowment (PVLDB)</i> [2026]
	<i>IEEE International Conference on Data Engineering (ICDE)</i> (research track) [2025–2026]
	<i>ACM SIGMOD International Conference on Management of Data (SIGMOD)</i> (research track) [2022, 2024–2025]
	<i>ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD)</i> (research track) [2014–2025]
	<i>International World Wide Web Conference (WWW)</i> (graph algorithms and learning for the Web track) [2014, 2016–2025]
	<i>ACM International Conference on Information and Knowledge Management (CIKM)</i> (research track, long papers) [2012–2022, 2025]
	<i>ACM International Conference on Web Search and Data Mining (WSDM)</i> [2013–2014, 2020–2024]
	<i>SIAM International Conference on Data Mining (SDM)</i> [2012, 2014–2024]
	<i>IEEE International Conference on Data Mining (ICDM)</i> [2014–2016, 2018–2023]
	<i>International Joint Conference on Artificial Intelligence (IJCAI)</i> [2020–2025]
	<i>European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)</i> (research track) [2016–2019, 2021–2023]
	<i>European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)</i> (applied data science track) [2015–2018, 2021–2023]
	<i>European Conference on Artificial Intelligence (ECAI)</i> (research track) [2023, 2025]
	<i>AAAI Conference on Artificial Intelligence (AAAI)</i> [2021–2022]
	<i>International AAAI Conference on Web and Social Media (ICWSM)</i> [2014, 2017–2022]
	<i>Int. ACM SIGIR Conf. on Research and Development in Information Retrieval (SIGIR)</i> [2020–2021]
	<i>ACM International Conference on Information and Knowledge Management (CIKM)</i> (research track, short papers) [2019–2020]
	<i>ACM International Conference on Information and Knowledge Management (CIKM)</i> (industry/case studies track) [2017–2018]

PROGRAM COMMITTEES (OTHER CONFERENCES & WORKSHOPS)	ITADATA [2024–2025]; SEBD [2022–2023]; FRCCS [2023]; DSAA – <i>special sessions</i> track [2021–2022]; DSAA – <i>applications</i> track [2019–2020]; DS [2022]; ASONAM [2015–2020]; NetSci [2020]; LOD [2017–2020]; CSoNet [2019]; SocInfo [2019]; KDIR [2016–2019]; ICoMS [2018]; ICBK [2017]; CIDM [2016]; EIDWT [2011]; Open-SOFOS Work. @ECML-PKDD [2022]; Soc2Net Work. @ASONAM [2019–2020]; BSMDMA Work. @IEEE BigData and @IJCAI [2018–2019]; MATNet Work. @WWW [2018]; SoAPS Work. @ECIR [2018]; MultiClust Work. @SDM [2012]
INVITED TALKS	<p><i>Network-based Receivable Financing</i> Scuola Normale Superiore Virtual Seminar, December 2021</p> <p><i>Dense Subgraph Discovery in Temporal Networks</i> Workshop on Algorithmic Aspects of Temporal Graphs IV 48th Int. Colloq. on Automata, Languages, and Programming (ICALP ‘21) Virtual Event, July 2021</p> <p><i>Data Science on Information-rich Graphs: New Frontiers, Problems, and Methods</i> University of Milan Milan, Italy, June 2019</p> <p><i>Mining Massive Complex Graphs: New Frontiers and Methods</i> ISI Foundation Turin, Italy, September 2015</p> <p><i>From Patterns in Data to Knowledge Discovery: what Data Mining can do</i> 3rd International Conference Frontiers in Diagnostic Technologies (ICFDT ‘13) Frascati, Italy, November 25-27, 2013</p> <p><i>Projective Clustering Ensembles</i> Yahoo Labs Barcelona, Spain, September 2011</p> <p><i>Information-Theoretic Hierarchical Clustering of Uncertain Data</i> George Mason University Fairfax VA, USA, April 2009</p>
PHD THESIS REVIEWING	<p>Stefano Piersanti Sapienza University – Dept. of Computer Engineering, Control and Management (DIAG) PhD Program in Engineering in Computer Science Thesis: <i>Will it fail and why? A large case study of company default prediction with highly interpretable machine learning models</i> Thesis advisor: Prof. Aris Anagnostopoulos XXXIII cycle</p>
EXTERNAL REVIEWING	<p>Journals: TKDE, TKDD, TPAMI, VLDBJ, MACH, DAMI, TIST, Information Systems, TWEB, TCSS, TBDATA, Pattern Recognition, Internet Mathematics, Nature Communications, AIRE, KAIS, Information Sciences, APNS, DKE, SAM, AI Communications, AI in Medicine, JOCS, Computational Intelligence, BDR, IJDSN, IJITDM, JINT, JIIS, EAAI, ADAC, Neural Networks, JDIQ, Information Fusion, IEEE Access, ISSI</p> <p>Conferences: SIGMOD, KDD, WWW, ICDE, ICDM, WSDM, CIKM, EDBT, SDM, ECML PKDD, PAKDD, DaWaK, CIDM, EDB, IDEAS, SEBD</p>
CONFERENCE PARTICIPATION	ECML-PKDD ‘22 [76, 77], CIKM ‘21, ECML-PKDD ‘21 [27, 78, 79], ECML-PKDD ‘20 [80], ECML-PKDD ‘19 [81], BigNOMICS ‘19, CIKM ‘18 [29, 30, 31], ECML-PKDD ‘18 [82], ECML-PKDD ‘17 [12, 83], WIMS ‘17 [63], IEEE BigData ‘16 [34], ECML-PKDD ‘16 [85], ECML-PKDD ‘14 [40], KDD ‘14 [41], EDBT ‘14 [43, 44], VLDB ‘12 [21], SEBD ‘11,

SIGMOD '11 [49], ICDM '10 [51, 50], ICDM '09 [52], IDEAS '09 [69], SDM '09 [53],
ICDM '08 [54], SUM '08 [71], CBMS '07 [73]

TEACHING ACTIVITY

TEACHING	External Scientific Board Member
COLLABORATIONS	<i>Information and Communication Technologies</i> PhD Program
WITH	University of Calabria (Italy), Department of Computer Science, Modeling, Electronics and
UNIVERSITIES	Systems Engineering (DIMES) Cycles: XXXVIII (years '22-'25), XXXVII (years '21-'24), XXXVI (years '20-'23), XXXV (years '19-'22), XXXIV (years '18-'21), XXXIII (years '17-'20) UniCredit Scientific co-Referent for the Industrial Liason Program (ILP) <i>Sapienza University</i> , M. Sc. in Data Science Years: 2016 – present
INDUSTRY	<i>Machine Learning I</i> (32 hours)
COURSES	UniCredit – Advanced Analytics Lab, <i>Data Skill Booster</i> program Attendees: UniCredit employees (data scientists, machine-learning engineers) Description: theoretical foundations and hands-on sessions on machine-learning basics Syllabus: <i>regression, classification, decision trees, support vector machines, ensembles, unsupervised learning</i> Held on Jun-Jul 2021 <i>Machine Learning II</i> (32 hours) UniCredit – Advanced Analytics Lab, <i>Data Skill Booster</i> program Attendees: UniCredit employees (data scientists, machine-learning engineers) Description: theoretical foundations and hands-on sessions on advanced machine-learning topics Syllabus: <i>neural networks, convolutional neural networks, recurrent neural networks, graph neural networks, neural networks for recommender systems</i> Held on Oct-Nov 2021 Neural Natural Language Processing (21 hours) UniCredit – Group Data & Intelligence, <i>Data Upskilling</i> program Attendees: UniCredit Employees (data scientists, machine-learning engineers) Description: theoretical foundations and hands-on sessions on the latest advances in NLP Syllabus: <i>word embeddings, sequence models, large language models, attention models, autoregressive models, model pretraining</i> Held on Jun-Jul 2023
UNIVERSITY	<i>Advanced Learning and Mining Problems in Big Graph Data</i> (6 hours/year)
COURSES	University of Calabria (Italy)
(INSTRUCTOR)	Department of Computer Science, Modeling, Electronics and Systems Engineering (DIMES) PhD Program in Information and Communication Technologies Academic year: '17-'18 <i>Computer Science</i> (55–84 hours/year) University of Calabria (Italy) Faculties of Engineering, Pharmacy, and Political Sciences, B.Sc. 1st year (remedial class project) Academic years: '09-'10, '08-'09 <i>Computer Science</i> (16–24 hours/year) “Magna Græcia” University of Catanzaro, Crotone campus (Italy) Faculty of Medicine and Surgery, B.Sc. in Nurse Sciences (3rd year) Academic years: '10-'11, '09-'10, '08-'09, '07-'08

Laboratory Activity in Computer Science (16 hours/year)
 “Magna Græcia” University of Catanzaro, Catanzaro campus (Italy)
 Faculty of Medicine and Surgery, B.Sc. in Dental Health (3rd year)
 Academic years: ’09-’10

UNIVERSITY COURSES (TEACHING ASSISTANT) **Foundations of Computer Science** (18 hours/year)
 University of Calabria (Italy)
 Faculty of Engineering, B.Sc. in Computer Engineering (1st year)
 Academic years: ’10-’11, ’09-’10, ’08-’09

Computer Science (20 hours/year)
 University of Calabria (Italy)
 Faculty of Political Sciences, M.Sc. in Political Sciences (1st year)
 Academic years: ’10-’11, ’08-’09, ’07-’08, ’06-’07

Internet Algorithms and Cryptography (13 hours/year)
 University of Calabria (Italy)
 Faculty of Engineering, M.Sc. in Computer Engineering (2nd year)
 Academic years: ’10-’11, ’09-’10

Web-based Information Systems (13 hours/year)
 University of Calabria (Italy)
 Faculty of Engineering, M.Sc. in Computer Engineering (2nd year)
 Academic years: ’09-’08, ’08-’07, ’06-’07, ’05-’06

Data and Knowledge Bases (13 hours/year)
 University of Calabria (Italy)
 Faculty of Engineering, M.Sc. in Management Engineering (1st year)
 Academic years: ’07-’08, ’05-’06

Algorithms and Data Structures (13 hours/year)
 University of Calabria (Italy)
 Faculty of Engineering, B.Sc. in Computer Engineering (2nd year)
 Academic years: ’06-’07

Foundations of Computer Science I (30 hours/year)
 “Magna Græcia” University of Catanzaro (Italy)
 B.Sc. interuniversity course in Computer and Biomedical Engineering (1st year)
 Academic years: ’10-’11, ’09-’10, ’08-’09, ’07-’08

Computer Science (8 hours/year)
 “Magna Græcia” University of Catanzaro, Catanzaro campus (Italy)
 Faculty of Medicine and Surgery, B.Sc. in Health Services (3rd year)
 Academic years: ’09-’10

TRAINING CAMPS AND HACKATONS Co-instructor of the “*Knowledge Graph Completion*” training camp (9 hours)
 Sapienza University of Rome
 M.Sc. in Data Science
 Academic year: ’20-’21

DOCTORAL ADVISORSHIPS Liliana Martirano
 University of Calabria
 Dept. of Computer Science, Modeling, Electronics and Systems Engineering (DIMES)
 PhD Program in Information and Communication Technologies
 Industrial Program (“*Dottorati Innovativi con Caratterizzazione Industriale*”, PON R&I 2014-2020 Azione I.1)
 Thesis: *Interpretable AI: Deep Learning for Knowledge Graphs*
 XXXVI cycle (years 2020–2023)

B.Sc./M.Sc.	Alessio Barboni
THESIS	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '22-'23)
ADVISORSHIPS	Thesis: <i>Temporal Graph Representation Learning meets Credit-risk Assessment</i>
	Giorgia Salvatori
	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '21-'22)
	Thesis: <i>Graph Summarization in the Financial Domain</i>
	Francesco Ottaviani
	Sapienza University of Rome, M.Sc. in Computer Engineering (A.Y. '20-'21)
	Thesis: <i>Characterizing Knowledge Graphs in the Embedding Space</i>
	Dilara Isikli
	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '20-'21)
	Thesis: <i>Financial Sentiment Analysis</i>
	Marco Moauro
	Roma Tre University, M.Sc. in Computer Engineering (A.Y. '20-'21)
	Thesis: <i>Knowledge Graph Construction and Processing: a Case Study on the Italian Bourse</i>
	Giacomo Lo Cascio
	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '19-'20)
	Thesis: <i>Representation Learning on Blockchain Networks, with an Application to Cryptocurrency Price Prediction</i>
	Alessia Galli
	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '19-'20)
	Thesis: <i>Motif Extraction and Discord Discovery in Temporal Graphs</i>
	Vlado Vukovic
	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '18-'19)
	Thesis: <i>Discord Discovery in Temporal Graphs</i>
	Giulia Di Brango
	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '18-'19)
	Thesis: <i>Anomalous-Event Detection in Heterogeneous Graphs</i>
	Lucia Gagliarducci
	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '18-'19)
	Thesis: <i>Relation-Extraction for Knowledge-Graph Completion</i>
	Giacomo Legnaro
	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '17-'18)
	Thesis: <i>Efficient and Effective Streaming Algorithms for Network-based Invoice Factoring</i>
	Giulia Gavazzi
	Sapienza University of Rome, M.Sc. in Data Science (A.Y. '16-'17)
	Thesis: <i>Mining Dense and Non-redundant Subgraphs, with an Application to Event-graph Exploration</i>
	Fabrizio Granieri
	University of Calabria, B.Sc. in Computer Engineering (A.Y. '09-'10)
	Thesis: <i>Graph Partitioning for Clustering Ensembles</i>
	Ronny Meringolo
	University of Calabria, B.Sc. in Computer Engineering (A.Y. '09-'10)
	Thesis: <i>Graph Partitioning for Clustering Ensembles</i>
	Antonio Senno
	University of Calabria, M.Sc. in Computer Engineering (A.Y. '08-'09)
	Thesis: <i>Clustering Ensembles Methods</i>

Giuseppe Scrivano
University of Calabria, B.Sc. in Computer Engineering (A.Y. '06-'07)
Thesis: *Multidimensional Time Series: Similarity Detection and Clustering*

Emanuele Forlano
University of Calabria, B.Sc. + M.Sc. in Computer Engineering (A.Y. '05-'06)
Thesis: *Algorithms for Time Series Clustering*

RESEARCH Giulia Gavazzi, Giacomo Legnaro, Hugo Maldini
INTERN M.Sc. students at Sapienza University of Rome
SUPERVISING Research Interns at UniCredit, Winter 2016 (Data Science Industrial Liaison Program)
Project: *News Collection for Emerging-Event Detection* [63]

Alessio Areni, Cristiano Di Crescenzo, Elena Troccoli
M.Sc. students at Sapienza University of Rome
Research Interns at UniCredit, Winter 2016 (Data Science Industrial Liaison Program)
Project: *Event Detection in Temporal Graphs* [63]

Pranay Anchuri
Ph.D. student at Rensselaer Polytechnic Institute
Research Intern at Yahoo Labs Barcelona, Summer 2014
Project: *Mining Interesting Patterns from Uncertain Graphs*

Daniele Ramazzotti
Ph.D. student at University of Milano-Bicocca
Research Intern at Yahoo Labs Barcelona, Summer 2014
Project: *Social Influence Detection by Probabilistic Causation and Spatial Proximity* [30]

Edoardo Galimberti
M.Sc. student at Politecnico of Milan
Research Intern at Yahoo Labs Barcelona, Summer 2014
Project: *Efficient and Effective Community Search* [16]

Natali Ruchansky
Ph.D. student at Boston University
Research Intern at Yahoo Labs Barcelona, Summer 2014
Project: *The Minimum Wiener Connector Problem* [38]

Davide Mottin
Ph.D. student at University of Trento
Research Intern at Yahoo Labs Barcelona, Summer 2013
Project: *Query Reformulation in Graph Databases* [37]

Panos Parchas
Ph.D. student at Hong Kong University of Science and Technology
Research Intern at Yahoo Labs Barcelona, Summer 2013
Project: *Extracting Representative Instances of Uncertain Graphs* [42, 15]

Lucrezia Macchia
Ph.D. student at University of Bari
Research Intern at Yahoo Labs Barcelona, Winter 2013
Project: *Mining Summaries of Propagations* [45]

Arijit Khan
Ph.D. student at University of California at Santa Barbara
Research Intern at Yahoo Labs Barcelona, Summer 2012
Project: *Fast Reliability Search on Uncertain Graphs* [44]

Charalampos Tsourakakis
Ph.D. student at Carnegie Mellon University

Research Intern at Yahoo Labs Barcelona, Summer 2012
 Project: *Extracting optimal quasi-cliques with quality guarantees* [46]

EXTERNALLY-FUNDED RESEARCH/INNOVATION COOPERATIVE PROJECTS

PARTICIPATION AS A RESEARCH- STAFF MEMBER	<p>The Rome Technopole Ecosystem Funding entity: European Union - NextGenerationEU, National Recovery and Resilience Plan (NRRP) (<i>“Piano Nazionale di Ripresa e Resilienza”</i> (PNRR)) Innovation ecosystem number: ECS_00000024</p> <p>TYPES (<i>Towards transparencY and Privacy in the onlinE advertising business</i>) Funding entity: EU-H2020 Project number: H2020-DS-2014-1 – Project ID 653449</p> <p>SUPER (<i>Social sensors for secUrity Assessments and Proactive EmeRgencies management</i>) Funding entity: EU-FP7 Project number: FP7-Security-2013.6.1-1 (http://super-fp7.eu/)</p> <p>Cenit Social Media Funding entity: Spanish Centre for the Development of Industrial Technology CENIT program, project CEN-20101037 (http://www.cenitsocialmedia.es/)</p> <p>GeoPKDD (<i>Geographic Privacy-aware Knowledge Discovery and Delivery</i>) Funding entity: EU-FET-014915 Project number: IST-6FP-014915 (http://www.geopkdd.eu)</p> <p>LogNET (<i>An Innovative Network to Improve Logistics in Gioia Tauro</i>) Subproject LOGICA (<i>laboratory of LOGistics in CALabria</i>) Funding entity: POR Calabria 2000-2006</p> <p>EUREKA! An idea for energy Project: <i>Fraud Detection via Load Profiles</i> Funding entity: Enel University, area “Distribution Nets of Electricity”</p>
PARTICIPATION IN PROPOSAL DRAFTING (PROJECTS NOT ACCEPTED)	<p>PDS-OBDA: Protected Data Sharing with OBDA Target funding programme and entity: ICT-13-2018-2019, European Commission</p> <p>ALGO-AUDIT: Network for Training Algorithm Auditors for Privacy-Preserving, Fair and Transparent Data-Driven Decisions Target funding programme and entity: H2020-MSCA-ITN-2018, European Commission</p> <p>SeDaSOMA: <u>S</u>erendipitous, <u>D</u>ata-as-a-<u>S</u>ervice-oriented, <u>O</u>pen big data <u>M</u>anagement and <u>A</u>alytics framework Target funding programme and entity: H2020-ICT-16-2015, European Commission</p>
APPOINTED EVALUATOR OF PROJECT PROPOSALS	<p>Funding entity: European Commission Funding programme: Horizon Europe Proposal category: Research & Innovation Action (RIA) Call(s): 2022</p> <p>Funding entity: European Commission Funding programme: Horizon 2020 ICT Proposal category: Innovation Action (IA) Call(s): 2017</p> <p>Funding entity: Austrian Research Promotion Agency (FFG) Funding programme: ICT of the Future</p>

Proposal category: Industrial Research, Experimental Development
Call(s): 4th (2015), 5th (2016), 6th (2017)

Funding entity: Austrian Research Promotion Agency (**FFG**)

Funding programme: **Beyond Europe**

Proposal category: Industrial Research, Experimental Development
Call(s): 1st (2016), 2nd (2017)

Funding entity: Austrian Research Promotion Agency (**FFG**) &
Chinese Academy of Sciences (**CAS**)

Funding programme: **ICT of the Future – Bilateral China Call**

Proposal category: Industrial Research, Experimental Development
Call(s): 1st (2017)

HONORS AND AWARDS

Italian National Scientific Habilitation (*Abilitazione Scientifica Nazionale (ASN)*)

Granted by: Italian Ministry of Education, Universities and Research (*MIUR*)

Role: Associate Professor (*II fascia*)

Sector 01/B1 - Computer science (*Informatica*), valid from Aug 7th, 2018 to Aug 7th, 2029

Sector 09/H1 - Information processing systems (*Sistemi di elaborazione delle informazioni*), valid from Jul 26th, 2018 to Jul 26th, 2029

KDD 2023 Certificate of Excellence in Reviewing

Granted to reviewers “*in recognition of an outstanding contribution to the quality of KDD*”

WWW 2023 Best Reviewer Award

Granted to reviewers “*selected by track chairs of the research track from the Program Committee and Senior Program Committee, based on the quality of their reviews, and their engaged participation during the discussion phase*”

Top-2% Most Cited Scientist across all Scientific Disciplines

Updated science-wide author databases of standardized citation indicators

Stanford University

(<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4>)

Year: 2022

ECML-PKDD 2021 Best Reviewer Award

Granted to selected reviewers for “*their timely and insightful reviews and for actively participating in the discussions*”

ABI IT Innovation Award 2018 (“Premio Innovazione IT – Tecnologie Disruptive”)

Granted by “Associazione Bancaria Italiana” (ABI), the trade association of Italian banks

Awarded system: UC Balance (an innovative system for network-based invoice factoring)

Personal contribution: design, theoretical characterization, and implementation of the algorithmic core behind the system

WWW 2017 Outstanding Reviewer Award

Granted to selected reviewers “*who went well beyond their call of duty, provided exceptional reviews, and contributed a lot to discussions*”

BDTA 2016 Best Paper Award

Paper “*Handling Uncertainty in Clustering Art-exhibition Visiting Styles*” [65]

“**BC**” label (“*paper where the results are backed by code*”)

from the 2015 Arizona University Repeatability in Computer Science study

(<http://reproducibility.cs.arizona.edu/v2>)

Paper “*Uncertain Centroid based Partitional Clustering of Uncertain Data*” [21]

SIGMOD 2011 Repeatability and Workability Evaluation (RWE) label

Paper “*Advancing Data Clustering via Projective Clustering Ensembles*” [49]

SDM 2009 Student Travel Award

Paper “*Diversity-based Weighting Schemes for Clustering Ensembles*” [53]

Italian Innovation Award (*Premio Nazionale per l’Innovazione*) - I edition (2009)

Fraud Detection via Load Profiles project within *EUREKA! An idea for energy* initiative

(Italian) Habilitation to practice as an Engineer

Section A, Field of Information Technology

Qualifying exam passed on October 2006 (1st 2006 session), no expiration date

Tuition fee reimbursement (based *solely* on merit)

M.Sc. in Computer Engineering

University of Calabria, 2003

INDUSTRIAL ACTIVITY

PATENTS	H. Vahabi, F. Gullo <i>Method and/or System for Recommender System</i> Patent Granted [US10796239B2, 2020-10-06]
	X. Bai, B. B. Cambazoglu, F. Gullo, A. Mantrach, F. Silvestri <i>Using Exogenous Sources for Personalization of Website Services</i> Patent Granted [US9792372B2, 2017-10-10]
	F. Bonchi, A. Gionis, F. Gullo, A. Ukkonen <i>Method and System for Computing Relationship-Constrained Shortest Paths in Large Networks</i> Defensive Publication
	F. Bonchi, A. Gionis, F. Gullo, C. Tsourakakis <i>Method and System for Extracting High-quality Subgraphs from Large Graphs</i> Defensive Publication
INDUSTRIAL PROJECTS (SELECTED)	<i>Large-Language-Model-based Search on Internal Sharepoint Content</i> Outcome: PoC Skills: large language models; semantic search; Technology: OpenAI; Azure Workbench
	<i>Graph-based Credit-risk Assessment</i> Outcome: PoC Skills: (temporal) graph representation learning; supervised learning Technology: Palantir Foundry, Python, Docker, PyTorch
	<i>Prediction of Credit Card Installments</i> Outcome: production Skills: supervised learning, sequential learning, reinforcement learning Technology: Palantir Foundry, Python, PySpark
	<i>Building and Analyzing a Knowledge Graph of HW/SW Resources</i> Outcome: PoC

Skills: graph databases, (knowledge) graph analytics
Technology: Neo4j, Python, Java

Building and Analyzing a Knowledge Graph of Corporates

Product: PoC

Skills: graph databases, (knowledge) graph analytics

Technology: Neo4j, Python, Java

A Complete NLP Pipeline for Processing Garnishment Documents

Outcome: production

Skills: NLP, supervised learning, word embeddings, OCR

Technology: Scala, Python, Weka, Stanford CoreNLP, SpaCy, OpenCV, Tesseract

Network-based Invoice Factoring

Outcome: production

Skills: combinatorial optimization, graph analytics, network flow, cycle enumeration

Technology: Scala

Email Classification for Talent Acquisition

Outcome: prototype

Skills: NLP, supervised learning

Technology: Java, Weka, JavaMail, EWS Java API

Identification of Crisis Events for Business Continuity

Outcome: prototype

Skills: NLP, entity recognition and disambiguation, sentiment analysis, text categorization

Technology: Scala, Spark, HBase

Entity Recognition and Disambiguation for Financial News

Outcome: PoC

Skills: NLP, entity recognition and disambiguation, MinHash, locality-sensitive hashing (LSH)

Technology: Scala, Spark, HBase

Detecting Corporate Group Structure from Unstructured Data

Outcome: production

Skills: web scraping, learning from positive and unlabeled examples, NLP, entity recognition and disambiguation, computer vision

Technology: Scala, Spark, Weka, OpenCV

Exploiting Search History of Users for News Personalization

Outcome: production

Skills: personalization of online services, query-log analysis, distributed computing

Technology: Java, Hadoop

Predicting the Next Application a User is Going to Use

Outcome: PoC

Skills: supervised learning, recommender systems, mobile data, distributed computing

Technology: Java, Hadoop, Hive

Churn Analysis on Flickr

Outcome: PoC

Skills: churn analysis, supervised learning, distributed computing

Technology: Java, Matlab, Hadoop

Optimal User Engagement through Social-Diffusion-aware Recommender Systems

Outcome: production

Skills: recommender systems, information diffusion in complex networks, distributed computing

Technology: Java, Hadoop

Ticker Similarity Search

Outcome: prototype

Skills: online similarity search, time-series analysis, locality-sensitive hashing (LSH)

Technology: Java

Identification of Historical Trends in Organic Search via Query-log Analysis

Outcome: prototype

Skills: query-log analysis, distributed computing

Technology: Java, Hadoop

OPEN SOURCE	PyCCAlg – Correlation-Clustering Algorithms in Python
PROTOTYPES	https://github.com/fgullo/pyccalg
(CO-)DEVELOPED	Skills: correlation clustering, linear programming
(SELECTED)	Technology: Python, SciPy, PuLP
	JPCE – Java-based Projective Clustering Ensembles tool
	http://people.dimes.unical.it/andreatagarelli/software/jpce/
	https://github.com/fgullo/jpce
	Skills: clustering ensembles, subspace clustering, projective clustering ensembles
	Technology: Java
	JCLUdata – a Java software for clustering uncertain data
	https://github.com/fgullo/jcludata
	Skills: clustering, uncertain data, probability theory, information theory
	Technology: Java
	Hermes – A distributed-messaging tool for NLP
	http://hermes.rnd.unicredit.it:9603
	Skills: NLP, graph analytics
	Technology: Scala, Spark, Kafka, Redis, ElasticSearch, Hbase
	MSPtool – Mass Spectra Preprocessing tool
	http://polifemo.deis.unical.it/~gtradigo/jnlp/msptool/
	Skills: bioinformatics, mining of biological data, time-series analysis
	Technology: Java, JFreeChart, Java Web Start, J2EE
	TSCtool – Time Series Clustering tool
	Skills: time-series analysis, mining of spatio/temporal data
	Technology: Java, JFreeChart

TECHNICAL SKILLS (NON-EXHAUSTIVE)

GENERAL-PURPOSE PROGRAMMING LANGUAGES: Java, Python, Scala, C/C++

DOMAIN-SPECIFIC LANGUAGES:

MATLAB (matrix programming), SQL (relational DB querying), HTML (web-page markup), XML (machine-readable doc markup), Bash (shell scripting), LaTeX (typesetting), Markdown (text formatting), Prolog, Datalog (logic programming)

VERSIONING TECHNOLOGY: Git, SVN

BUILD-AUTOMATION TECHNOLOGY: SBT, Apache Maven

DATABASES:

MySQL, PostgreSQL (RDBMSs), Neo4j (graph DBs), Redis, Couchbase Server (non-relational DBs)

VIRTUALIZATION TECHNOLOGY: Docker

CLOUD-COMPUTING SUITES: Google Cloud Platform, Microsoft Azure

MACHINE-LEARNING FRAMEWORKS: PyTorch, PyTorch Geometric

KNOWLEDGE-GRAPH-EMBEDDING FRAMEWORKS: PyKEEN, OpenKE

DISTRIBUTED-COMPUTING TECHNOLOGY: Apache Hadoop, Apache Spark, Apache HBase, Apache Hive

STREAM-PROCESSING TECHNOLOGY: Apache Kafka

DATA-MANAGEMENT PLATFORMS: Palantir Foundry

SEARCH ENGINES: Elasticsearch

INTERACTIVE-COMPUTING TECHNOLOGY: Jupyter Notebook

WEB-APPLICATION TECHNOLOGY: Java EE, Java servlet, JavaServer Pages (JSP), Jboss, Apache Tomcat

SOFTWARE LIBRARIES:

Stanford CoreNLP, Weka, JDBC, JavaMail, JFreeChart (Java); spaCy, NumPy, SciPy, pandas, NetworkX, OpenCV, scikit-learn, Hugging Face Transformers (Python)

OPERATING SYSTEMS: macOS, Windows, Unix/Linux

QUANTUM COMPUTING: IBM Qiskit SDK

SELECTED PUBLICATIONS (HIGH-RANKED VENUES)

JOURNALS

- [1] F. Gullo, D. Mandaglio, A. Tagarelli. Neural Discovery of Balance-aware Polarized Communities. *Machine Learning (MACH)*, Vol. 2024: 1-5, 2024 (DOI: <https://doi.org/10.1007/s10994-024-06581-4>).
- [2] A. Anagnostopoulos, V. Arrigoni, F. Gullo, G. Salvatori, L. Severini: General-purpose Query Processing on Summary Graphs. *Social Network Analysis and Mining (SNAM)* 14(1): 157, 2024 (<https://doi.org/10.1007/s13278-024-01314-w>).
- [3] O. Balalau, F. Bonchi, T-H. Hubert Chan, F. Gullo, M. Sozio, H. Xie. Finding Subgraphs with Maximum Total Density and Limited Overlap in Weighted Hypergraphs. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 18(4): 1-21, 2024 (DOI: <https://doi.org/10.1145/3639410>).
- [4] F. Gullo, D. Mandaglio, A. Tagarelli. A Combinatorial Multi-Armed Bandit Approach to Correlation Clustering. *Data Mining and Knowledge Discovery (DAMI)*, 37(4): 1630-1691, 2023 (DOI: <https://doi.org/10.1007/s10618-023-00937-5>).
- [5] J. Layne, J. Carpenter, E. Serra, F. Gullo. Temporal SIR-GN: Efficient and Effective Structural Representation Learning for Temporal Graphs. *Proceedings of the VLDB Endowment (PVLDB)*, 16(9):2075-2089, 2023 (DOI: <https://dx.doi.org/10.14778/3598581.3598583>).
- [6] E. Galimberti, M. Ciaperoni, A. Barrat, F. Bonchi, C. Cattuto, F. Gullo. Span-core Decomposition for Temporal Networks: Algorithms and Applications. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 15(1): 2:1-2:44, 2021 (DOI: <https://dx.doi.org/10.1145/3418226>).
- [7] I. Bordino, F. Gullo, G. Legnaro. Advancing Receivable Financing via a Network-based Approach. *IEEE Transactions on Network Science and Engineering (TNSE)*, 8(2):1328-1337, 2021 (DOI: <http://dx.doi.org/10.1109/TNSE.2020.3005612>).
- [8] I. Bordino, A. Ferretti, F. Gullo, S. Pascolutti. GarNLP: A Natural Language Processing Pipeline for Garnishment Documents. *Information Systems Frontiers (ISFI)*, 23(1):101-114, 2021 (DOI: <http://dx.doi.org/10.1007/s10796-020-09997-0>).
- [9] M. Ciaperoni, E. Galimberti, F. Bonchi, C. Cattuto, F. Gullo, A. Barrat. Relevance of temporal cores for epidemic spread in temporal networks. *Scientific Reports (SciRep)*, 10, Ar-

title number: 12529, 2020 (DOI: <https://dx.doi.org/10.1038/s41598-020-69464-3>).

- [10] E. Galimberti, F. Bonchi, F. Gullo, T. Lanciano. Core Decomposition in Multilayer Networks: Theory, Algorithms, Applications. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 14(1):11:1-11:40, 2020 (DOI: <http://dx.doi.org/10.1145/3369872>).
- [11] A. Khan, F. Bonchi, F. Gullo, A. Nufer. Conditional Reliability in Uncertain Graphs. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 30(11):2078-2092, 2018 (DOI: <http://dx.doi.org/10.1109/TKDE.2018.2816653>).
- [12] A. Tagarelli, A. Amelio, F. Gullo. Ensemble-based Community Detection in Multilayer Networks. *Data Mining and Knowledge Discovery (DAMI)*, 31(5):1506-1543, 2017 (DOI: <http://dx.doi.org/10.1007/s10618-017-0528-8>).
- [13] F. Gullo, G. Ponti, A. Tagarelli, S. Greco. An Information-Theoretic Approach to Hierarchical Clustering of Uncertain Data. *Information Sciences*, 402:199-215, 2017 (DOI: <http://dx.doi.org/10.1016/j.ins.2017.03.030>).
- [14] X. Bai, B. Barla Cambazoglu, F. Gullo, A. Mantrach, F. Silvestri. Exploiting Search History of Users for News Personalization. *Information Sciences*, 385-386:125-137, 2017 (DOI: <http://dx.doi.org/10.1016/j.ins.2016.12.038>).
- [15] P. Parchas, F. Gullo, D. Papadias, F. Bonchi. Uncertain Graph Processing through Representative Instances. *ACM Transactions on Database Systems (TODS)*, 40(3):20:1-20:39, 2015 (DOI: <http://dx.doi.org/10.1145/2818182>).
- [16] N. Barbieri, F. Bonchi, E. Galimberti, F. Gullo. Efficient and Effective Community Search. *Data Mining and Knowledge Discovery (DAMI)*, 29(5):1406-1433, 2015 (DOI: <http://dx.doi.org/10.1007/s10618-015-0422-1>).
- [17] F. Bonchi, A. Gionis, F. Gullo, C. Tsourakakis, A. Ukkonen. Chromatic Correlation Clustering. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 9(4):34:1-34:24, 2015 (DOI: <http://dx.doi.org/10.1145/2728170>).
- [18] F. Gullo, C. Domeniconi, A. Tagarelli. Metacluster-based Projective Clustering Ensembles. *Machine Learning (MACH)*, 98(1-2):181-216, 2015 (DOI: <http://dx.doi.org/10.1007/s10994-013-5395-y>).
- [19] F. Gullo, G. Ponti, A. Tagarelli. Minimizing the Variance of Cluster Mixture Models for Clustering Uncertain Objects. *Statistical Analysis and Data Mining (SAM)*, 6(2):116-135, 2013 (DOI: <http://dx.doi.org/10.1002/sam.11170>).
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- [21] F. Gullo, A. Tagarelli. Uncertain Centroid based Partitional Clustering of Uncertain Data. *Proceedings of the VLDB Endowment (PVLDB)*, 5(7):610-621, 2012.
- [22] F. Gullo, G. Ponti, A. Tagarelli, G. Tradigo, P. Veltri. A Time Series Approach for Clustering Mass Spectrometry Data. *Journal of Computational Science (JOCS)*, 3(5):344-355, 2012 (DOI: <http://dx.doi.org/10.1016/j.jocs.2011.06.008>).
- [23] S. Greco, F. Gullo, G. Ponti, A. Tagarelli. Collaborative Clustering of XML Documents. *Journal of Computer and System Sciences (JCSS)*, 77(6):988-1008, 2011 (DOI: <http://dx.doi.org/10.1016/j.jcss.2011.02.005>).
- [24] F. Gullo, G. Ponti, A. Tagarelli, S. Greco. A Time Series Representation Model for Accurate and Fast Similarity Detection. *Pattern Recognition*, 42(11):2998-3014, 2009 (DOI: <http://dx.doi.org/10.1016/j.patcog.2009.03.030>).
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Mass Spectrometry Data. *Computer Methods and Programs in Biomedicine (CMPB)*, 95(2 suppl.):S12-S21, 2009 (DOI: <http://dx.doi.org/10.1016/j.cmpb.2009.02.011>).

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 - [28] D. Mandaglio, A. Tagarelli, F. Gullo. In and Out: Optimizing Overall Interaction in Probabilistic Graphs under Clustering Constraints. In *Proceedings of the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD ‘20)*, pp. 1371-1381. San Diego, CA – USA, August 23-27, 2020.
 - [29] E. Galimberti, A. Barrat, F. Bonchi, C. Cattuto, F. Gullo. Mining (maximal) Spancores from Temporal Networks. In *Proceedings of the ACM International Conference on Knowledge and Information Management (CIKM ‘18)*, pp. 107-116. Turin, Italy, October 22-26, 2018.
 - [30] F. Bonchi, F. Gullo, B. Mishra, D. Ramazzotti. Probabilistic Causal Analysis of Social Influence. In *Proceedings of the ACM International Conference on Knowledge and Information Management (CIKM ‘18)*, pp. 1003-1012. Turin, Italy, October 22-26, 2018.
 - [31] I. Bordino, F. Gullo. Network-based Receivable Financing. In *Proceedings of the ACM International Conference on Knowledge and Information Management (CIKM ‘18)*, pp. 2137-2145. Turin, Italy, October 22-26, 2018.
 - [32] E. Galimberti, F. Bonchi, F. Gullo. Core Decomposition and Densest Subgraph in Multilayer Networks. In *Proceedings of the ACM International Conference on Knowledge and Information Management (CIKM ‘17)*, pp. 1807-1816. Singapore, November 6-10, 2017.
 - [33] N. Ruchansky, F. Bonchi, D. Garcia Soriano, F. Gullo, N. Kourtellis. To Be Connected, or Not to Be Connected: That is the Minimum Inefficiency Subgraph Problem. In *Proceedings of the ACM International Conference on Knowledge and Information Management (CIKM ‘17)*, pp. 879-888. Singapore, November 6-10, 2017.
 - [34] I. Bordino, A. Ferretti, M. Firrincieli, F. Gullo, M. Paris, S. Pascolutti, G. Sabena. Advancing NLP via a distributed-messaging approach. In *Proceedings of the 2016 IEEE International Conference on Big Data (IEEE BigData ‘16)*, pp. 1561-1568. Washington D.C., USA, December 5-8, 2016.
 - [35] H. Vahabi, I. Koutsopoulos, F. Gullo, M. Halkidi. DifRec: a Social-Diffusion-aware Recommender System. In *Proceedings of the ACM International Conference on Knowledge and Information Management (CIKM ‘15)*, pp. 1481-1490. Melbourne, Australia, October 19-23, 2015.
 - [36] A. Khan, F. Gullo, T. Wohler, F. Bonchi. Top-k Reliable Edge Colors in Uncertain Graphs. In *Proceedings of the ACM International Conference on Knowledge and Information Management (CIKM ‘15)*, pp. 1851-1854. Melbourne, Australia, October 19-23, 2015.
 - [37] D. Mottin, F. Bonchi, F. Gullo. Graph Query Reformulation with Diversity. In *Proceedings of the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD ‘15)*, pp. 825-834. Sydney, Australia, August 10-13, 2015.
 - [38] N. Ruchansky, F. Bonchi, D. Garcia Soriano, F. Gullo, N. Kourtellis. The Minimum Wiener Connector Problem. In *Proceedings of the ACM SIGMOD International Conference on Management of Data (SIGMOD ‘15)*, pp. 1587-1602. Melbourne, Victoria, Australia, May 31-June 14, 2015.

- [39] O. Balalau, F. Bonchi, T-H. Hubert Chan, F. Gullo, M. Sozio. Finding Subgraphs with Maximum Total Density and Limited Overlap. In *Proceedings of the International Conference on Web Search and Data Mining (WSDM '15)*, pp. 379-388. Shanghai, China, February 2-6, 2015.
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- [47] F. Bonchi, A. Gionis, F. Gullo, A. Ukkonen. Chromatic Correlation Clustering. In *Proceedings of the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD '12)*, pp. 1321-1329. Beijing, China, August 12-16, 2012.
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- [50] F. Gullo, G. Ponti, A. Tagarelli. Minimizing the Variance of Cluster Mixture Models for Clustering Uncertain Objects. In *Proceedings of the 10th IEEE International Conference on Data Mining (ICDM '10)*, pp. 839-844. Sydney, Australia, December 14-17, 2010.
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