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)

Address: DISIM Department @UnivAQ, "Alan Turing" building, Room 203

Via Vetoio, 41, 67100 Coppito (AQ) – Italy (office)

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Web: https://fgullo.github.io/

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 Fundació 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 (subsidiary) 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

Dept. of Computer Science, Modeling, Electronics and Systems Engineering (DIMES, formerly DEIS)

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

Dept. of Computer Science, Modeling, Electronics and Systems Engineering (DIMES, formerly DEIS) Cosenza, Italy

[Jan'06 – Aug'11] Research & Teaching Assistant

"Magna Græcia" University of Catanzaro; Department of Medicine and Surgery Catanzaro, Italy

Work Experience – Other Tenures

[Nov'24 - present] Affiliate Graduate Faculty

Boise State University Boise, ID – USA

[Oct'24 – present] Deputy Head of the Master's Degree Program in Applied Data Science

University of L'Aquila L'Aquila, Italy

[Oct'24 - present] Coordinator of the Internationalization Committee

for the DISIM Department of the University of L'Aquila for the Master's Degree Program in Applied Data Science

L'Aquila, Italy

[Apr'24 – present] Member of the Elective Board ("docenti di riferimento")

for the Master's Degree Program in Applied Data Science

University of L'Aquila L'Aquila, Italy

[Nov'23 - present] Member of the ACM Europe Technology Policy Committee (EPTC)

Data Science subcommittee

Association for Computing Machinery (ACM)

[Jul'23 – present] Member of REPRISE

"Register of Expert Peer Reviewers for Italian Scientific Evaluation"

Italian Ministry of University and Research (MUR)

[Jan'16 - Feb'24] UniCredit Scientific co-Coordinator for the Industrial Liason Program (ILP)

of the Master's Degree Program in Data Science

Sapienza University

Rome, Italy

PhD Program Academic Board Member

Committees PhD Program in Information and Communication Technologies (ICT)

Department of Information Engineering, Computer Science, and Mathematics (DISIM)

University of L'Aquila (Italy)

Cycles: 41° (2025-'28); 40° (2024-'27)

(Non-academic) External Board Member

PhD Program in Information and Communication Technologies (ICT)

Department of Computer Science, Modeling, Electronics and Systems Engineering

(DIMES)

Committees

University of Calabria (Italy)

Cycles: $39^{\circ} (2023-26) - 33^{\circ} (2017-20)$

Academic Graduation Sessions ("sedute di laurea") – University of L'Aquila

Jul 23, 2025; Mar 15, 2025

ERASMUS+ (mobility for study) – DISIM Department, University of L'Aquila

2024-25 spring call

Postdoctoral Positions ("assegni di ricerca") – DISIM Dept., University of L'Aquila

"GenXAI", Jul 2024

Teaching Assistant Positions ("attivitá didattiche integrative")

DISIM Department., University of L'Aquila

2025-26

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. Degree in Computer Engineering [cum laude] University of Calabria, Italy Thesis: Querying and Repairing Inconsistent XML Databases Advisor: prof. Sergio Greco
[Oct'03]	B.Sc. Degree 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 [62]
 - machine unlearning; explainable AI; algorithmic fairness; privacy preservation; sustainable AI.
- 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 Associate Editor

 $\begin{array}{ll} \mbox{Boards of} & EPJ \ Data \ Science \ \mbox{journal} \\ \mbox{Journals} & [\mbox{Nov } 2023 - \mbox{present}] \end{array}$

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]

Organizing General co-Chair

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

OF Conferences

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)

Workshop co-Chair

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

Industry Track Program Committee co-Chair

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

Workshop co-Chair

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

ORGANIZATION

OF WORKSHOPS /1s

&

SIMILAR

SATELLITE EVENTS OF

Conferences

co-Organizer

[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])

co-Organizer

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])

co-Organizer

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)

co-Organizer

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.

Guest Editor

Boards

Editorial/Reviewing Journal Track of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD JT)

[2020-2025]

Guest Editor

Special Issue on Human-AI-Robot Teaming (HART) Robotics journal [2024-2025]

Distinguished Reviewer Board member

ACM Transactions on the Web (TWEB)

[2022-2024]

Program Board member

International Joint Conference on Artificial Intelligence (IJCAI) [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

Proceedings of the VLDB Endowment (PVLDB)

Committees

(MAJOR CONFERENCES)

IEEE International Conference on Data Engineering (ICDE)

(research track) [2025–2026]

ACM SIGMOD International Conference on Management of Data (SIGMOD) (research track) [2022, 2024–2025]

ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD) (research track) [2014–2025]

International World Wide Web Conference (WWW) (graph algorithms and learning for the Web track) [2014, 2016–2025]

International Joint Conference on Artificial Intelligence (IJCAI) $(senior\ PC\ member)\ [2020–2025]$

IEEE International Conference on Data Mining (ICDM) (senior PC member) [2014–2016, 2018–2023, 2025]

ACM International Conference on Information and Knowledge Management (CIKM) (research track – full papers; senior PC member) [2012–2022, 2025]

European Conference on Artificial Intelligence (ECAI) (research track; senior PC member) [2023, 2025]

ACM International Conference on Web Search and Data Mining (WSDM) [2013-2014, 2020-2024]

SIAM International Conference on Data Mining (SDM) [2012, 2014–2024]

European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)

(research track) [2016–2019, 2021–2023]

European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)

(applied data science track; senior PC member) [2015–2018, 2021–2023]

AAAI Conference on Artificial Intelligence (AAAI) [2021-2022]

International AAAI Conference on Web and Social Media (ICWSM) [2014, 2017–2022]

Int. ACM SIGIR Conf. on Research and Development in Information Retrieval (SIGIR) [2020-2021]

ACM International Conference on Information and Knowledge Management (CIKM) (research track - short papers) [2019–2020]

ACM International Conference on Information and Knowledge Management (CIKM) (industry/case studies track) [2017–2018]

Program Committees (OTHER WORK-SHOPS)

ITADATA [2024–2025]; SEBD [2022–2023]; FRCCS [2023]; DSAA – special sessions track [2021–2022]; DSAA – applications track [2019–2020]; DS [2022]; ASONAM [2015–2020]; NetSci [2020]; LOD [2017–2020]; CSoNet [2019]; SocInfo [2019]; KDIR [2016–2019]; ICoMS [2018]; CONFERENCES 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

Network-based Receivable Financing

Scuola Normale Superiore Virtual Seminar [Dec 2021]

Dense Subgraph Discovery in Temporal Networks

Workshop on Algorithmic Aspects of Temporal Graphs IV

48th Int. Collog. on Automata, Languages, and Programming (ICALP '21)

Virtual Event [Jul 2021]

Data Science on Information-rich Graphs: New Frontiers, Problems, and Methods

University of Milan Milan, Italy [Jun 2019]

Mining Massive Complex Graphs: New Frontiers and Methods

ISI Foundation

Turin, Italy [Sep 2015]

From Patterns in Data to Knowledge Discovery: what Data Mining can do 3rd International Conference Frontiers in Diagnostic Technologies (ICFDT '13) Frascati, Italy [Nov 2013]

Projective Clustering Ensembles

Yahoo Labs

Barcelona, Spain [Sep 2011]

Information-Theoretic Hierarchical Clustering of Uncertain Data

George Mason University Fairfax VA, USA [Apr 2009] PhD Thesis Stefano Piersanti

REVIEWING Sapienza University – Dept. of Computer Engineering, Control and Management (DIAG)

PhD Program in Engineering in Computer Science

Thesis: Will it fail and why? A large case study of company default prediction with highly

interpretable machine learning models

Thesis advisor: Prof. Aris Anagnostopoulos

XXXIII cycle

EXTERNAL REVIEWING

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

Conferences: SIGMOD, KDD, WWW, ICDE, ICDM, WSDM, CIKM, EDBT, SDM, ECML PKDD, PAKDD, DaWaK, CIDM, EDB, IDEAS, SEBD

CONFERENCE ASONAM '24 PARTICIPATION CIKM '21,

ASONAM '24 [2, 61], CIKM '24, CIKM '23, ECML-PKDD '23, ECML-PKDD '22 [76, 77], 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], SEBD '11, SIGMOD '11 [49], EDBT '14 [43, 44], KDD '14 [41], VLDB '12 [21], SDM '09 [53], ICDM '10 [51, 50], ICDM '09 [52], IDEAS '09 [69], ICDM '08 [54], SUM '08 [71], CBMS '07 [73]

TEACHING ACTIVITY

Industry Machine Learning I (32 hours)

COURSES

UniCredit – Advanced Analytics Lab, Data Skill Booster program

Attendees: UniCredit employees (data scientists, machine-learning engineers)

Description: theoretical foundations and hands-on sessions on machine-learning basics

Syllabus: regression, classification, decision trees, support vector machines, ensembles, unsupervised learning

Held on Jun-Jul 2021

Machine Learning II (32 hours)

UniCredit – Advanced Analytics Lab, Data Skill Booster program

Attendees: UniCredit employees (data scientists, machine-learning engineers)

Description: theoretical foundations and hands-on sessions on advanced machine-learning topics Syllabus: neural networks, convolutional neural networks, recurrent neural networks, graph neural networks, neural networks for recommender systems

Held on Oct-Nov 2021

Neural Natural Language Processing (21 hours)

UniCredit – Group Data & Intelligence, Data Upskilling program

Attendees: UniCredit Employees (data scientists, machine-learning engineers)

Description: theoretical foundations and hands-on sessions on the latest advances in NLP

Syllabus: word embeddings, sequence models, large language models, attention models, autoregressive models, model pretraining

Held on Jun-Jul 2023

University Advanced Learning and Mining Problems in Big Graph Data (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

Computer Science (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

Computer Science (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

Foundations of Computer Science (18 hours/year)

COURSES

University of Calabria (Italy)

(Teaching

Faculty of Engineering, B.Sc. in Computer Engineering (1st year)

Assistant)

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

Co-instructor of the "Knowledge Graph Completion" training camp (9 hours)

CAMPS AND Sapienza University of Rome

HACKATONS M.Sc. in Data Science

Academic year: '20-'21

DOCTORAL

Liliana Martirano

Advisorships 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: Temporal Graph Representation Learning meets Credit-risk Assessment

Giorgia Salvatori

Sapienza University of Rome, M.Sc. in Data Science (A.Y. '21-'22)

Thesis: Graph Summarization in the Financial Domain

Francesco Ottaviani

Sapienza University of Rome, M.Sc. in Computer Engineering (A.Y. '20-'21)

Thesis: Characterizing Knowledge Graphs in the Embedding Space

Dilara Isikli

Sapienza University of Rome, M.Sc. in Data Science (A.Y. '20-'21)

Thesis: Financial Sentiment Analysis

Marco Moauro

Roma Tre University, M.Sc. in Computer Engineering (A.Y. '20-'21)

Thesis: Knowledge Graph Construction and Processing: a Case Study on the Italian Bourse

Giacomo Lo Cascio

Sapienza University of Rome, M.Sc. in Data Science (A.Y. '19-'20)

Thesis: Representation Learning on Blockchain Networks, with an Application to Cryptocurrency

Price Prediction

Alessia Galli

Sapienza University of Rome, M.Sc. in Data Science (A.Y. '19-'20)

Thesis: Motif Extraction and Discord Discovery in Temporal Graphs

Vlado Vukovic

Sapienza University of Rome, M.Sc. in Data Science (A.Y. '18-'19)

Thesis: Discord Discovery in Temporal Graphs

Giulia Di Brango

Sapienza University of Rome, M.Sc. in Data Science (A.Y. '18-'19)

Thesis: Anomalous-Event Detection in Heterogeneous Graphs

Lucia Gagliarducci

Sapienza University of Rome, M.Sc. in Data Science (A.Y. '18-'19)

Thesis: Relation-Extraction for Knowledge-Graph Completion

Giacomo Legnaro

Sapienza University of Rome, M.Sc. in Data Science (A.Y. '17-'18)

Thesis: Efficient and Effective Streaming Algorithms for Network-based Invoice Factoring

Giulia Gavazzi

Sapienza University of Rome, M.Sc. in Data Science (A.Y. '16-'17)

Thesis: Mining Dense and Non-redundant Subgraphs, with an Application to Event-graph Ex-

ploration

Fabrizio Granieri

University of Calabria, B.Sc. in Computer Engineering (A.Y. '09-'10)

Thesis: Graph Partitioning for Clustering Ensembles

Ronny Meringolo

University of Calabria, B.Sc. in Computer Engineering (A.Y. '09-'10)

Thesis: Graph Partitioning for Clustering Ensembles

Antonio Senno

University of Calabria, M.Sc. in Computer Engineering (A.Y. '08-'09)

Thesis: Clustering Ensembles Methods

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 Intern Giulia Gavazzi, Giacomo Legnaro, Hugo Maldini 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]

Participation into Funded Research/Innovation Cooperative Projects

Participation The Rome Technopole Ecosystem

AS A Funding entity: European Union - NextGenerationEU, National Recovery and Resilience Plan

Research- (NRRP) ("Piano Nazionale di Ripresa e Resilienza" (PNRR))

STAFF Innovation ecosystem number: ECS_00000024

MEMBER TEXTED CONTROL OF THE PROPERTY OF THE P

TYPES (Towards transparency and Privacy in the onlinE advertising business)

Funding entity: EU-H2020

Project number: H2020-DS-2014-1 - Project ID 653449

SUPER (Social sensors for secUrity Assessments and Proactive EmeRgencies management)

Funding entity: EU-FP7

Project number: FP7-Security-2013.6.1-1 (http://super-fp7.eu/)

Cenit Social Media

Funding entity: Spanish Centre for the Development of Industrial Technology CENIT program, project CEN-20101037 (http://www.cenitsocialmedia.es/)

GeoPKDD (Geographic Privacy-aware Knowledge Discovery and Delivery)

Funding entity: EU-FET-014915

Project number: IST-6FP-014915 (http://www.geopkdd.eu)

LogNET (An Innovative Network to Improve Logistics in Gioia Tauro)

Subproject LOGICA (laboratory of LOGIstics in CAlabria)

Funding entity: POR Calabria 2000-2006

EUREKA! An idea for energy

Project: Fraud Detection via Load Profiles

Funding entity: Enel University, area "Distribution Nets of Electricity"

PARTICIPATION PDS-OBDA: Protected Data Sharing with OBDA

Target funding programme and entity: ICT-13-2018-2019, European Commission

DRAFTING

ALGO-AUDIT: Network for Training Algorithm Auditors for Privacy-Preserving, Fair and Transparent Data-Driven Decisions

PROPOSAL

(PROJECTS NOT Target funding programme and entity: H2020-MSCA-ITN-2018, European Commission

ACCEPTED) SeDaSOMA: Serendipitous, Data-as-a-Service-oriented, Open big data Management and

Analytics framework

Target funding programme and entity: H2020-ICT-16-2015, European Commission

EVALUATION OF FUNDED COOPERATIVE PROJECTS/GRANTS

APPOINTED Funding entity: European Commission EVALUATOR Funding programme: Horizon Europe

OF Proposal category: Research & Innovation Action (RIA)

Project Call(s): 2022

Proposals Funding entity: European Commission

Funding programme: Horizon 2020 ICT Proposal category: Innovation Action (IA)

Call(s): 2017

Funding entity: Austrian Research Promotion Agency (FFG)

Funding programme: ICT of the Future

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, 2030

Sector $09/\mathrm{H}1$ - Information processing systems (Sistemi di elaborazione delle informazioni), valid from Jul 26^th , 2018 to Jul 26^th , 2030

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

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Industrial Activity

PATENTS

H. Vahabi, F. Gullo

Method and/or System for Recommender System Patent Granted [US10796239B2, 2020-10-06]

X. Bai, B. B. Cambazoglu, F. Gullo, A. Mantrach, F. Silvestri

Using Exogenous Sources for Personalization of Website Services

Patent Granted [US9792372B2, 2017-10-10]

F. Bonchi, A. Gionis, F. Gullo, A. Ukkonen

Method and System for Computing Relationship-Constrained Shortest Paths in Large Networks

Defensive Publication

F. Bonchi, A. Gionis, F. Gullo, C. Tsourakakis

Method and System for Extracting High-quality Subgraphs from Large Graphs

Defensive Publication

Industrial Large-Language-Model-based Search on Internal Sharepoint Content

Projects Outcome: PoC

(SELECTED) Skills: large language models; semantic search;

Technology: OpenAI; Azure Workbench

Graph-based Credit-risk Assessment

Outcome: PoC

Skills: (temporal) graph representation learning; supervised learning

Technology: Palantir Foundry, Python, Docker, PyTorch

Prediction of Credit Card Installments

Outcome: production

Skills: supervised learning, sequential learning, reinforcement learning

Technology: Palantir Foundry, Python, PySpark

Building and Analyzing a Knowledge Graph of HW/SW Resources

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 (DOI: 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, Article 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).
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- [27] D. Mandaglio, A. Tagarelli, F. Gullo. Correlation Clustering with Global Weight Bounds. In Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD '21), pp. 499-515. Bilbao, Spain, September 13-17, 2021.
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- [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.
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- [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.
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- [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 Con*ference on Web Search and Data Mining (WSDM '15), pp. 379-388. Shanghai, China, February 2-6, 2015.
- [40] F. Gullo, G. Ponti, A. Tagarelli. Be certain of how-to before mining uncertain data. In Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD '14) (Nectar Track), pp. 489-493. Nancy, France, September 15-19, 2014.
- [41] F. Bonchi, F. Gullo, A. Kaltenbrunner, Y. Volkovich. Core Decomposition of Uncertain Graphs. In Proceedings of the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD '14), pp. 1316-1325. New York City, New York (USA), August 24-27, 2014.
- [42] P. Parchas, F. Gullo, D. Papadias, F. Bonchi. The Pursuit of a Good Possible World: Extracting Representative Instances of Uncertain Graphs. In *Proceedings of the ACM SIGMOD International Conference on Management of Data* (SIGMOD '14), pp. 967-978. Snowbird, Utah (USA), June 22-27, 2014.
- [43] F. Bonchi, A. Gionis, F. Gullo, A. Ukkonen. Distance oracles in edge-labeled graphs. In *Proceedings of the International Conference on Extending Database Technology* (EDBT '14), pp. 547-558. Athens, Greece, March 24-28, 2014.
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- [48] F. Gullo, A. K. A. Talukder, S. Luke, C. Domeniconi, A. Tagarelli. Multiobjective Optimization of Co-Clustering Ensembles. In *Proceedings of the Genetic and Evolutionary*

- Computation Conference (GECCO '12), pp. 1495-1496. Philadelphia, PA (USA), July 7-11, 2012.
- [49] F. Gullo, C. Domeniconi, and A. Tagarelli. Advancing Data Clustering via Projective Clustering Ensembles. In Proceedings of the 2011 ACM SIGMOD International Conference on Management of Data (SIGMOD '11), pp. 733-744. Athens, Greece, June 12-16, 2011.
- [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.
- [51] F. Gullo, C. Domeniconi, A. Tagarelli. Enhancing Single-Objective Projective Clustering Ensembles. In *Proceedings of the 10th IEEE International Conference on Data Mining* (ICDM '10), pp. 833-838. Sydney, Australia, December 14-17, 2010.
- [52] F. Gullo, C. Domeniconi, A. Tagarelli. Projective Clustering Ensembles. In Proceedings of the 9th IEEE International Conference on Data Mining (ICDM '09), pp. 794-799. Miami, Florida (USA), December 6-9, 2009.
- [53] F. Gullo, A. Tagarelli, S. Greco. Diversity-based Weighting Schemes for Clustering Ensembles. In *Proceedings of the 9th SIAM International Conference on Data Mining* (SDM '09), pp. 437-448. Sparks, Nevada (USA), April 30-May 2, 2009.
- [54] F. Gullo, G. Ponti, A. Tagarelli, S. Greco. A Hierarchical Algorithm for Clustering Uncertain Data via an Information-Theoretic Approach. In *Proceedings of the 8th IEEE International Conference on Data Mining* (ICDM '08), pp. 821-826. Pisa, Italy, December 15-19, 2008.

Books

[55] F. Bonchi, D. Garcia Soriano, F. Gullo. Correlation Clustering. Synthesis Lectures on Data Mining and Knowledge Discovery, Springer, 2022 (DOI: https://doi.org/10.1007/978-3-031-79210-6).

OTHER PUBLICATIONS

OTHER JOURNALS

- [56] E. Serra, F. Spezzano, F. Gullo. CIKM 2024 Conference Report. SIGWEB Newsletter, Vol. 2025, No. Winter, 2025 (DOI: https://doi.org/10.1145/3726831.3726832).
- [57] A. Tommasel, E. Serra, F. Spezzano, F. Gullo. ACM International Conference on Information and Knowledge Management October 21-25, 2024 at Boise, Idaho (USA). SIGWEB Newsletter, Vol. 2024, No. Spring, 2024 (DOI: https://doi.org/10.1145/3663752.3663753).
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