



Barbara Pernici

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WORK EXPERIENCE



POLITECNICO DI MILANO – MILANO, ITALY

FULL PROFESSOR – 01/11/1993 – CURRENT



UNIVERSITY OF UDINE – UDINE, ITALY

FULL PROFESSOR – 01/11/1990 – 31/10/1993



POLITECNICO DI MILANO – MILANO, ITALY

ASSOCIATE PROFESSOR – 01/12/1987 – 31/10/1990



NATIONAL RESEARCH COUNCIL – MILANO, ITALY

RESEARCH ASSOCIATE – 01/09/1984 – 31/10/1987



POLITECNICO DI MILANO – MILANO, ITALY

RESEARCH ASSISTANT – 04/02/1981 – 31/08/1983

EDUCATION AND TRAINING

01/11/1975 – 03/02/1981 Milano, Italy

SECOND LEVEL UNIVERSITY DEGREE IN ELECTRICAL ENGINEERING Politecnico di Milano

Level in EQF EQF level 7

01/10/1983 – 25/08/1984 Palo Alto CA

MASTER OF SCIENCE IN COMPUTER SCIENCE Stanford University

LANGUAGE SKILLS

UNDERSTANDING

Listening

Reading

SPEAKING

Spoken production Spoken interaction

WRITING

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Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

Publications

Main papers in international journals in the past 5 years

1. Carlo A Bono , Cinzia Cappiello , Barbara Pernici , Edoardo Ramalli , Monica Vitali , Pipeline Design for Data Preparation for Social Media Analysis , ACM Journal of Data and Information Quality , in press , <https://re.public.polimi.it/handle/11311/1235292>

2. Carlo Bono , Mehmet Oguz Mülâyim Çinzia Cappiello , Mark Carman , Jesus Cerquides , Jose Luis Fernandez - Marquez, Rosy Mondardini , Edoardo Ramalli , Barbara Pernici , A Citizen Science approach for analysing social media with crowdsourcing IEEE Access , Vol. 11, pp. 15329 - 15347, 2023 <https://ieeexplore.ieee.org/document/10041135>
3. E. Ramalli, B. Pernici, Knowledge Graph Embedding for Experimental Uncertainty Estimation , Information Discovery and Delivery , 2023 [link](#)
4. E. Ramalli, T. Dinelli, A. Nobili , A. Stagni , B. Pernici, T. Faravelli, Automatic validation and analysis of predictive models by means of big data and data science , Chemical Engineering Journal , vol. 454, part 3, Feb. 2023 [link](#)
5. S. Geisler, M. E. Vidal, C. Cappiello , B. Farias Lóscio , A. Gal , M. Jarke , M. Lenzerini , P. Missier, B. Otto, E. Paja, B. Pernici, J. Rehof, Knowledge-driven Data Ecosystems Towards Data Transparency , ACM Journal of Data and Information Quality , vol. 14, 1, 2022 <https://dl.acm.org/doi/10.1145/3467022>
6. G. Scalia , C. Francalanci , B. Pernici, CIME: Context-aware geolocation of emergency-related posts , Geoinformatica, 2022 [link](#)
7. D. Roeein , D. Bianchini , F. Leotta, M. Mecella , P. Paolini, B. Pernici, aCHAT-WF: Generating conversational agents for teaching business process models , Software and Systems Modeling , 2022, 1-24 [link](#)
8. Cinzia Cappiello , Giovanni Meroni, Barbara Pernici , Pierluigi Plebani, Mattia Salnitri , Monica Vitali , Diana Trojaniello, Ilio Catallo and Alberto Sanna , Improving health monitoring with adaptive data movement in Fog Computing, Frontiers in Robotics and AI , 2020 [link](#)
9. G. Scalia , C. Grambow B. Pernici, T. P. Li, W. Green , Evaluating Scalable Uncertainty Estimation Methods for Deep Learning Based Molecular Property Prediction , Journal of Chemical Information and Modeling , ([link](#)), 2020
10. Andrea Autelitano , Barbara Pernici , Gabriele Scalia , Spatio-temporal mining of keywords for social media cross-social crawling of emergency events , Geoinformatica, Springer, [link](#)
11. Gabriele Scalia , Matteo Pelucchi , Alessandro Stagni , Alberto Cuoci , Tiziano Faravelli , Barbara Pernici , A scientific data framework to support scientific model development, Data Science , IOS Press , vol. 2, no. 1-2, pp. 245-273, 2019 [link](#)
12. Andrea Marrella , Massimo Mecella , Barbara Pernici , Pierluigi Plebani,
13. A design time data centric maturity model for assessing resilience in multi-party business processes , Information Systems , 2018 [link](#)

● **JOB-RELATED SKILLS**

Job-related skills

- member of Research and Innovation Committee of Provincia di Trento (both for public funding and industrial research) (2014-2024)
- member of National evaluation committee for academic research in ICT in Norway (2012)
- member of National evaluation committee for academic research in ICT in Estonia (2014)
- participant in H 2020 projects:
 - CrowdSDG (2020-23) E2MC Evolution of Emergency Copernicus services (2016-2019)
 - DATABENCH Evidence Based Big Data Benchmarking to Improve Business Performance (2018-2020)
 - DITAS Data intensive applications Improvement by moving data and computation in mixed cloud fog/environments (2017-2019)
- Member of the editorial board of IEEE Transactions on Services Computing and ACM Transactions on the Web , Springer BISE Journal , regional editor for the Journal on Cooperative Information Systems ; in the past , she was involved in the editorial board Requirements Engineering Journal , ACM Journal of Data and Information Quality .
- Expert evaluation for professor positions in Austria , Denmark, Finland, France , Germany, Norway.
- Member of PhD defense committee in Australia , Belgium, France , India, Italy, Norway, The Netherlands , Sweden, Switzerland
- Evaluator of research projects in Australia , Austria, Canada, Denmark, Ireland, Italy , Norway, The Netherlands , Switzerland
- General Chair, program Chair or track chair (since 2015): general co-chair for ICSE 2016 (Canada); track chair for ICSE SEIS 2017; track chair for ICIS Service Science 2018; general co-chair of CAiSE 2019 in Rome ; program co chair ER conference in Brazil 2019.

● **ORGANISATIONAL SKILLS**

Organisational skills

- Chair of TC8 Information Systems of the International Federation for Information Processing (IFIP); chair of IFIP WG 8.1 on Information Systems Design ; co-proposer of IFIP WG on Services Oriented Systems .
- Chair of Steering Committee Intl . Conference on Advance Information Systems Engineering 2012-2017
- Responsible editor PoliMi Springer Briefs (subseries of Springer Briefs on Applied Sciences and Technology) 2013-now
- Chief scientist of EU project FP7 Games
- Responsible for the Politecnico di Milano unit in the following projects : FP7 EcoClouds , Games; other EU projects : WS-Diamond, Wide , Ithaca, Equator; co-responsible in NoE S Cube
- PI of National project MAIS (€ 8.280.000,00 total funding)

- Dean of Politecnico di Milano PhD School 2011-2015
- Member of Academic Senate of Politecnico di Milano 2013-2016
- coordinator of PhD Programme in Information Technology , Politecnico di Milano (1/2010-1/2011)
- Presidente della Commissione Disciplina del Politecnico di Milano (2018-2023)
- member of the Management Committee of the COST 1304 Action ACROSS (Autonomous Control for a Reliable Internet of Services)

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

Invited speaker at several international conferences and workshops including CAiSE , RCIS, DEXA, SmartGreen , ICSOC international conferences.