

## MARISTELLA MATERA - Short bio

Maristella Matera is an Associate Professor at the Department of Electronics, Information, and Bioengineering of the Politecnico di Milano. Her research focuses on aspects at the intersection of Human-Computer Interaction (HCI) and Model-driven Web Engineering (MDWE), with a unique opportunity to address the needs of the end-users of computing systems, through new technologies enabling the development, even by the end users themselves, of interactive applications. The most relevant achievements are positioned in:

- **HCI:** Conceptual modeling of conversational user interfaces, conceptual modeling of interactive smart spaces, interactive technologies for data integration and exploration, End-User Development of IoT systems, co-design methods, and digital toolkits for IoT.
- **MDWE:** Models, methods, and enabling platforms for the rapid prototyping of i) conversational agents for the exploration of structured databases and Web browsing, ii) Interactive Smart Spaces, iii) smart objects, iv) Web mashups

On these topics, also thanks to her collaborations with Italian and international colleagues, Maristella has published about 200 scientific articles. At the time of writing, her *h*-index is 34, with 5406 citations (source: Google Scholar). She authored 34 journal papers, among which 18 are top-ranked Q1 papers (including ACM Trans. on Comp.-Human Interaction, ACM Trans. on the Web, ACM Trans. on Internet Technology, IEEE Trans. on Knowl. and Data Engin., Internet Computing). She published at conferences ranked A\*/A according to CORE (CHI, Interact, WWW, CAISE, MODELS, ESEM, Hypertext). On topics related to MDWE, she co-authored 3 highly-cited international monographic books. Some of her papers were awarded at international conferences. The results of her research are exploited in scientific and industrial research projects, at the national and international levels.

She has been chairing and serving in the organization of international events related to the field of HCI and Web Engineering, with chairing roles in ACM Mobile HCI, AVI, ICWE, Interact, and roles as Associate Chair at the Interact and WWW conferences. She is also a member of the editorial board of the ACM Transactions on the Web and served as an editorial board member of the "Future Generation Computer Systems" journal (Elsevier).

In the last few years, she has dedicated many efforts to disseminating HCI and consolidating the HCI community in Italy. For four years, until October 2022, she was Chair of the Italian Chapter of the ACM SIGCHI (<http://sigchitaly.eu>), for which she is still serving as vice-chair. Through this role, she has contributed to the growth of the Italian HCI community, which now groups about 400 members (with 60 voting members). She has undertaken actions to emphasize the relevance of HCI in both the scientific and educational contexts of Computer Science and Engineering in Italy. At the institutional level, she contributed to the inclusion of HCI in the list of the disciplines recognized within the Italian Computer-Engineering research sector (Ing-Inf/05). At the international level, she is the promoter of a new board, the Mediterranean SIGCHI Extended Committee, that was recently approved by the ACM SIGCHI and is now recruiting representatives of the HCI communities of the Mediterranean Area (start of activities planned in January 2023).

She also disseminates HCI through teaching activities. In the last three years, at PoliMI she has proposed new courses on topics at the frontier of HCI research: two new courses for the Master's degree in Computer Science and Engineering and the Ph.D. in IT (*HCI for AI; Inclusive Digital Technologies*), one for the Master degree in Communication Design (*Visual Computation Design*). She also promoted initiatives to discuss, together with internationally renowned HCI and AI scientists, how to revise the syllabus of HCI courses for addressing the challenges posed by the design of current interactive technologies.