

Alberto Monge Roffarello

Assistant Professor in
Tenure Track

Research Statement

Alberto Monge Roffarello

Department of Control and Computer Engineering
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My research focuses on the end-user personalization of smart devices, online services, and user's behaviors with these technologies. The main domain in which my research is contextualized is Digital Wellbeing. Specifically, I explore and develop strategies and tools to counter problems like technology overuse and addiction, with the final aim of promoting the development of new design processes and digital services that value and respect users' attention.

My work was published as 30+ papers in international conferences and journals, mostly in ACM/IEEE venues – generally considered the top scientific organizations for computing and engineering. Since 2017, I have constantly published at ACM CHI, the top conference in the Human-Computer Interaction (HCI) field. Starting from 2019, my full papers in that conference focused on digital wellbeing from various perspectives. I published work on the Digital Wellbeing domain in other HCI venues as well, such as INTERACT 2021 and UbiComp 2019, and in important international journals, e.g., IJHCS and ACM TiiS. Thanks to my work on the topic, I created international collaborations, for example with the University of Virginia, and I now teach a course on Digital Wellbeing in my own university.

Education and Employment

Politecnico di Torino / Assistant Professor (in tenure track)

JULY 2023 - PRESENT, TORINO, ITALY

Department of Control and Computer Engineering. Lead of the Digital Wellbeing area in the e-Lite Research Group.

Politecnico di Torino / Assistant Professor (not in tenure track)

APRIL 2022 - JULY 2023, TORINO, ITALY

Department of Control and Computer Engineering. Lead of the Digital Wellbeing area in the e-Lite Research Group.

Politecnico di Torino / Postdoctoral Researcher

NOVEMBER 2019 - MARCH 2022, TORINO, ITALY

Department of Control and Computer Engineering. Lead of the Digital Wellbeing area in the e-Lite Research Group. Faculty collaborators: Fulvio Corno and Luigi De Russis.

Politecnico di Torino / Ph.D. in Computer and Control Engineering

NOVEMBER 2016 - OCTOBER 2019, TORINO, ITALY

Department of Control and Computer Engineering, e-Lite Research Group. Advisor: Fulvio Corno.

Politecnico di Torino / M. Sc. in Computer Engineering

SEPTEMBER 2013 - OCTOBER 2015, TORINO, ITALY

Department of Control and Computer Engineering, e-Lite Research Group. Thesis Advisor: Fulvio Corno.

Projects and Grants

SIFIS HOME / European Project

OCTOBER 2020 - PRESENT

Lead the task "T4.3: Analytics for policy enforcement". Call: H2020-SU-02-ICT-2018-2020 (RIA) Grant Agreement Number: 952652. Design and development of a tool to specify high-level security policies to be executed in a Smart Home.

BATTI IL 5 / National Project

JANUARY 2019 - JUNE 2022

Lead the work package "W2: basic coding". Prog. 2017-GEN-00335. Design and implementation of experimental and laboratory activities related to coding and computational thinking for primary schools.

INTELLIGENT CONNECTED DRIVING / Research Project

FEBRUARY 2018 - DECEMBER 2018

Participation in the research project with the FCA Group. Design and evaluation of an intelligent, multimodal driver-car conversational system.

ALFAEVOLUTION / Research Project

JUNE 2017 - DECEMBER 2017

Participation in the research project with the Unipol-SAI Group. Review of the most promising technologies and application solutions in the Smart Home field.

Honors and Awards

SCUDO QUALITY AWARD

NOVEMBER 2020

Prize awarded by the Doctoral School of the Politecnico di Torino (SCUDO) to the most deserving 3 third-year doctoral students.

SCUDO QUALITY AWARD

NOVEMBER 2019

Prize awarded by the Doctoral School of the Politecnico di Torino (SCUDO) to the most deserving 3 second-year doctoral students.

IEEE Eta Kappa Nu Membership

MARCH 2017

Selected as a member of IEEE-Eta Kappa Nu (IEEE-HKN), the honor society of IEEE. IEEE-HKN recognises individual excellence for meritorious research, educational and professional work in the various areas of interest of IEEE.

PEROTTO-ZUCCA AWARD

MARCH 2016

Finalist and special mention for the 'Care4Me' project in the Perotto-Zucca National ICT Innovation Award (2016 Edition).

Main Relevant Publications

The full publication list (with PDFs) is available at

<https://iris.polito.it/cris/rp/rp29216>

[C1] **Monge Roffarello A.**, Lukoff K., De Russis L., “Defining and Identifying Attention Capture Deceptive Designs in Digital Interfaces”, in *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*, Hamburg, Germany, April 23-28, 2023.

[C2] **Monge Roffarello A.**, De Russis L., “Coping with Digital Wellbeing in a Multi-Device World”, in *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*, Association for Computing Machinery, New York, NY, USA, Article 538, pp. 1–14.

[C3] **Monge Roffarello A.**, De Russis L., “The Race Towards Digital Wellbeing: Issues and Opportunities”, in *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19)*, Glasgow, Scotland (U.K.), May 4-9, 2019.

[C4] Corno F., De Russis L., **Monge Roffarello A.**, “Empowering End Users in Debugging Trigger-Action Rules”, in *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19)*, Glasgow, Scotland (U.K.), May 4-9, 2019.

[C5] Corno F., De Russis L., **Monge Roffarello A.**, “TAPrec: Supporting the Composition of Trigger-Action Rules Through Dynamic Recommendations”, in *Proceedings of the 25th International Conference on Intelligent User Interfaces (IUI '20)*, Cagliari, Italy, March 17-20, 2020.

[J1] **Monge Roffarello A.**, De Russis L., “Understanding, Discovering, and Mitigating Habitual Smartphone Use in Young Adults”, *ACM Transactions on Interactive Intelligent Systems*, vol. 11, n. 2, Article 13 (July 2021), 34 pages.

[J2] **Monge Roffarello A.**, De Russis L., “Understanding and Streamlining App Switching Experiences in Mobile Interaction”, *International Journal of Human-Computer Studies*, vol. 158, 14 pages.

[J3] **Monge Roffarello A.**, De Russis L., “Achieving Digital Wellbeing Through Digital Self-Control Tools: A Systematic Review and Meta-Analysis”, *ACM Transactions on Computer-Human Interaction (TOCHI)*, 62 pages.

[J4] Corno F., De Russis L., **Monge Roffarello A.**, "RecRules: Recommending IF-THEN Rules for End-User Development", *ACM Transactions on ACM Transactions on Intelligent Systems and Technology (TIST)*, vol. 10, n. 5, Article 58, 27 pages.

[J5] Corno F., De Russis L., **Monge Roffarello A.**, "From Users' Intentions to IF-THEN Rules in the Internet of Things", *ACM Transactions on Information Systems (TOIS)*, vol. 39, n. 4, Article 53, 33 pages.

Teaching

STRATEGIES FOR DIGITAL WELLBEING/ Full Course

JANUARY 2023 - PRESENT, POLITECNICO DI TORINO

Course for Ph.D. students on the Digital Wellbeing topic.

USER EXPERIENCE DESIGN / Full Course

SEPTEMBER 2023 - PRESENT, POLITECNICO DI TORINO

Course for Master Degree students (Cinema and Media Engineering) on Human-Computer Interaction.

BENESSERE DIGITALE / Full Course

SEPTEMBER 2022 - PRESENT, POLITECNICO DI TORINO

Course for Bachelor Degree students on the Digital Wellbeing topic.

PARADIGMI DI PROGRAMMAZIONE / Full Course

SEPTEMBER 2021 - PRESENT, UNIVERSITÀ DEL PIEMONTE ORIENTALE

Course for Bachelor Degree students on object-oriented and functional programming.

HUMAN-COMPUTER INTERACTION / Teaching Assistant

SEPTEMBER 2022 - PRESENT, POLITECNICO DI TORINO

Course for Master Degree students on Human-Computer Interaction.

TECNICHE DI PROGRAMMAZIONE / Teaching Assistant

SEPTEMBER 2016 - OCTOBER 2022, POLITECNICO DI TORINO

Course for Bachelor Degree students on advanced algorithms and object-oriented programming .

WEB APPLICATIONS I / Teaching Assistant

SEPTEMBER 2019 - OCTOBER 2021, POLITECNICO DI TORINO

Course for Master Degree students on web applications, with a particular focus on the front end.

AMBIENT INTELLIGENCE / Teaching Assistant

SEPTEMBER 2017 - OCTOBER 2019, POLITECNICO DI TORINO

Course for Bachelor Degree students on Smart Environments and Ambient Intelligence.

SEMANTIC WEB / Guest Course Lecturer

SEPTEMBER 2016 - OCTOBER 2018, POLITECNICO DI TORINO

Seminar on the Semantic Web topic in the context of a course on Artificial Intelligence.

M.Sc. STUDENTS SUPERVISOR / Supervisor

SEPTEMBER 2016 - PRESENT

Supervised more than 10 M.S. students in the Computer Engineering degree, on topics related to HCI, Digital Wellbeing, and Smart Environments.

Academic Service

DESIGN4DWB / Chair

FEBRUARY 2022 - JUNE 2022

Chair of the international workshop “Designing for Meaningful Interactions and Digital Wellbeing”, located within the International Conference on Advanced Visual Interfaces, in cooperation with ACM.

IJHCS / Guest Editor

NOVEMBER 2021 - PRESENT

Guest Editor for the Special Issue “Understanding Digital Wellbeing within Complex Technological Contexts”.

IS EUD / Technical Program Committee Member

MARCH 2021 - PRESENT

Member of the technical program committee of the International Symposium on End-User Development (IS-EUD)

ACM CHI / Associate Chair

MARCH 2020 - PRESENT

Associate Chair of the technical program committee of the Late Breaking Work track.

ACM IUI / Technical Program Committee Member

JANUARY 2020 - PRESENT

Member of the technical program committee of the ACM International Conference on Intelligent User Interfaces (IUI).

INTERNATIONAL CONFERENCES AND JOURNALS / Reviewer

SEPTEMBER 2016 - PRESENT

Reviewer for several international conferences and journals, including CHI, IUI, MobileHCI, CSCW, INTERACT, EICS, IJHCS, and IMWUT.

