*Engineering modern software systems*
*A tribute to Carlo Ghezzi*
*March 24$^{th}$ 2017*
*Politecnico di Milano*
*Dipartimento di Elettronica, Informazione e Bioingegneria Sala Conferenze*

**Abstract**

Modern software systems entail larger-than-ever contexts (think of Cyber-Physical Spaces or distributed smart-factories) whose technical and socio-technical implications are being actively researched. In this context, the dire challenge we face is to push forward the foundations of software engineering, discussing, blending, and distilling ideas, both old and new, whereupon the new page of software engineering practice may be inked. With this endeavour at heart, outstanding minds from software engineering research, both colleagues and friends to our own Prof. Carlo Ghezzi, will gather in a workshop to expose their views and ideas on modern software systems engineering research within the most recent confines and contexts of our discipline. In the scope of this workshop, we will discuss the next page for modern software systems engineering research focusing, among others, on: education of new software engineers, software requirements and architecture and their (self-)adaptability; error-free and self-healing software. This is our tribute to Carlo, whose paramount contribution in defining these foundations allowed all of us to understand the depth and implications of software engineering research and practice. The speakers for this workshop were invited in appreciation of their relation to Carlo and span distant friends and collaborators to recent students who became successful researchers renown throughout our community.

**Program**

11.00 – 11.30 **Pierluigi San Pietro**, *Welcome from the department*

11.30 – 12.00 **Carlo Ghezzi**, *Introduction*

12.00 – 12.30 **Mehdi Jazayeri**, *Research in computer science education*

12.30 – 13.00 **Axel van Lamsweerde**, *Requirements elaboration and adaptation*

13.00 – 14.00 Lunch

14.00 – 14.30 **Jeff Kramer**, *Adaptation: the challenges of change*

14.30 – 15.00 **Paola Inverardi**, *Software architectures: how components can go politely social*

15.00 – 15.30 **Gian Pietro Picco**, *GeoG referenced proximity detection of wildlife with wildScope: design and characterization*

15.30 – 16.00 Break

16.00 – 16.30 **Bertrand Meyer**, *Static debugging*

16.30 – 17.00 **Domenico Bianculli**, *ModelG driven trace checking of temporal properties*

17.00 – 17.30 **Mauro Pezzè**, *1986G 2016: From unit testing to system self healing*

17.30 – 17.45 **Dino Mandrioli**, *Closing*

For organizational reasons, we ask all those who are interested in attending the event, including students and faculties from Politecnico, to register filling in the following form:
https://goo.gl/forms/iJ3zi8SBQjoDS7Py1