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