

NEMARA 2012 Chairs' Foreword

As the Internet becomes increasingly pervasive in our daily lives, we are seeing the rise of the Digital World Phenomenon, where the former notions of cyberspace and physical world merge together. This new digital world brings new challenges for software systems and their developers. There is now an open space of services, which are highly adaptive and can be combined in ad-hoc ways to develop complex systems. The complexity of this open space of services is compounded by the fact that increasingly end-user developers are creating and deploying services and applications to be used by third parties. Furthermore, infrastructures such as the Cloud are leading to what has come to be known as Internet-scale applications. New advanced modularisation approaches are needed due to the change in the nature of software systems. Further, the need for distributed application integration requires modularity over multiple language/design approaches, which is substantially different from the traditional modularisation approaches in the single application/single language perspective.

This workshop aims to explore whether the current modularity mechanisms to aid modelling and analysis of software system requirements and architectures as sufficient for this changing landscape. If not, what shape should the next generation modularity mechanisms for requirements and architecture take so that they are able to cope with this changing face of software. The workshop aims to take a retrospective look on modularity in requirements and architecture and develop a research agenda for the next 5-10 years.

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