SEMPER))

1st International Workshop on Semantic Web Technologies for
Mobile and Pervasive Environments

Co-located with ESWC2016

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Preface

Pervasive and mobile technologies are one of the leading computing paradigms of the future. Transitioning from the world of personal computing, powerful, compact devices are distributed across the user's environment, enabling the contextualized enrichment of business processes with the ability to sense, process and combine data and forming smart environments of Ambient Intelligence (AmI). This interconnection of devices, machines and "things" enables the dynamic generation, analysis and communication of multiple data types so that the operational efficiency and effectiveness of existing business processes are increased.

However, the integration of devices and services to deliver intelligent solutions, in the so-called Internet of Things (IoT), may have been partially addressed with open platforms (FIWARE, Kaa, Linked Sensor Middleware), but yet imposes further challenges, relevant not only to the heterogeneity of communication protocols and interfaces, but also to the diverse context-aware information exchange and processing capabilities.

The SEMPER workshop aims to address emerging challenges in the field, discussing the benefits and limitations of applying Semantic Web technologies, with a special emphasis on semantic interoperability, context-aware modelling, hybrid reasoning schemes and intelligent decision making, real-time analytics, fusion of data sources and leveraging Big Data, sensor integration and reference platforms.

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