Future Internet Testing

Fact Sheet

Project information

FITTEST

Grant agreement ID: 257574
Status
Closed project

Start date
1 September 2010
End date
31 December 2013

Funded under:
FP7-ICT
Overall budget:
€ 5 885 768
EU contribution
€ 3 998 017

Coordinated by:
UNIVERSITAT POLITECNICA DE VALENCIA
Spain

Project description

Internet of Services, Software & virtualisation

Objective

The Future Internet will be a complex interconnection of services, applications, content and media, on which our society will become increasingly dependent for critical activities such as public utilities, social services, government, learning, finance, business, as well as entertainment. Consequently, Future Internet applications have to meet high quality demands. Testing is the mostly used quality assurance technique applied in industry. However, the complexity of the technologies involved in the Future Internet makes testing extremely challenging and demands for novel approaches and major advancement in the field. The overall aim of the FITTEST project is to address these testing challenges, by developing an integrated environment for automated testing, which can monitor the Future Internet application under test and adapt to the dynamic changes observed. The environment will implement continuous post-release testing to address self-modifiability and run-time adaptation of Future Internet applications. Since services can be dynamically discovered and added, intended use of the application can change after release. The environment will integrate, adapt and automate various techniques for continuous Future Internet testing (e.g. dynamic model inference, model-based testing, log-based diagnosis, oracle learning, combinatorial testing, concurrent testing, regression testing, etc.). The environment will make use of evolutionary search based techniques, to make it possible for the above mentioned techniques to deal with the huge search
space associated with the Future Internet testing challenges. In this way, we can address new, emerging or unexpected behaviour that may originate from the dynamism, autonomy and self-adaptation. FITTEST results will be evaluated with case studies using real Internet systems like virtual worlds, social networking, highly scalable service providers and a SaaS enabled CASE tool, that are highly relevant to the Future Internet vision.

**Field of Science**

/social sciences/economics and business

/social sciences/psychology/cognitive psychology/mental processes/learning

/natural sciences/computer and information sciences/internet

/social sciences/sociology/governance/public services

**Programme(s)**

FP7-ICT - Specific Programme "Cooperation": Information and communication technologies

**Topic(s)**

ICT-2009.1.2 - Internet of Services, Software and Virtualisation

**Call for proposal**

FP7-ICT-2009-5

See other projects for this call

**Funding Scheme**

CP - Collaborative project (generic)

**Coordinator**
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITAT POLITECNICA DE VALENCIA</td>
<td>Spain</td>
<td>€618 970</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
<tr>
<td>EXPLEO GERMANY GMBH</td>
<td>Germany</td>
<td>€609 168</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>SULAKE CORPORATION OY</td>
<td>Finland</td>
<td>€47 751</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
</tbody>
</table>

Participants (7)
SOFTEAM

Address
Avenue Victor Hugo 21
75016 Paris

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Philippe Desfray (Mr.)

EU Contribution
€ 730 928

---

IBM ISRAEL - SCIENCE AND TECHNOLOGY LTD

Address
94 Derech Em-Hamoshavot
49527 Petach Tikva

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Efrat Shalom-Hillman (Ms.)

EU Contribution
€ 591 350

---

FONDAZIONE BRUNO KESSLER

Address
Via Santa Croce 77
38122 Trento

Activity type
Research Organisations

Website
Contact the organisation

Administrative Contact
Umberto Silvestri (Dr.)

EU Contribution
€ 414 830
<table>
<thead>
<tr>
<th>Organisation</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity type</th>
<th>Administrative Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITEIT UTRECHT</td>
<td>€ 372 121</td>
<td>Heidelberglaan 8 3584 Cs Utrecht</td>
<td>Higher or Secondary Education Establishments</td>
<td>Martijn Dekker (Mr.)</td>
</tr>
<tr>
<td>UNIVERSITY COLLEGE LONDON</td>
<td>€ 612 899</td>
<td>Gower Street Wc1e 6bt London</td>
<td>Other</td>
<td>Greta Borg-Carbott (Ms.)</td>
</tr>
</tbody>
</table>