WORKS’12 was the seventh issue in the WORKS workshop series. The call for papers attracted 14 submissions from Europe, North and South America. The program committee accepted 12 papers that cover a variety of topics, including data-driven workflows modeling, workflow systems scalability, performance and fault-tolerance, execution monitoring, provenance traces production, data placement, workflow reuse, etc. This issue was also the opportunity for an inspiring keynote on energy-efficient execution of workflows in the Cloud by Carlo Mastroianni from ICAR-CNR (Italy). The attendance was about 70 participants.

The four sessions organized confirmed the vivid interest for distributed-computing workflows animating several communities: experts of distributed computing systems as well as end users in need for high-end, accessible computing infrastructures. Traditional research topics from distributed-computing were well represented with papers on scalability, fault-tolerance, performance and optimization of workflow management systems. The scientific data provenance and workflow execution monitoring themes were also well subscribed. Workflow reuse was represented. The data-intensive nature of workflow was acknowledged through several works dealing with data-driven workflow models, workflow data transfer and workflow data placement.

As WORKS’12 chairs, we would like to express our gratitude to all their colleagues in the Program Committee who contributed to the papers reviewing and selection effort. The workshop was lively and thought provoking. We hope that you will find in these proceedings a renewed interest and opportunities to share ideas with other researchers in working on workflows for supporting large-scale science.

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