The ARCS Conference – Historical Background and Outlook

The ARCS conference shows a long lasting tradition and establishes as the number one conference on computer architecture in Germany for many years. Starting from 2007, ARCS grows up to one of the major conferences in Europe on computing systems with venues alternating in Germany and Zurich, Delft, Como, and Prague. In every year ARCS attracts people from Informatics, Computer Science as well as Electronic Circuit Design from all over Europe to attend an interesting programme covering two to three days of conference and one or two additional days of workshops.

After a very successful expansion from Germany to Europe, ARCS is now further developing and aiming in a broad inclusion of industrial activities. Primary target is to intensify cooperation between academia and industry as well as providing a European networking platform. For the current edition of the conference, we have already confirmed 4 co-located workshops, as well as 2 tutorials and 3 keynote talks.

Industrial participation can cover any activity from submission of regular papers (extended deadline Oct. 17, 2014), proposal of a workshop or tutorial (deadline Nov. 3, 2014), a company poster presentation (deadline in January 2015), and a company booth up to sponsoring in different ways.

ARCS – Datasheet

The brief collection of conference facts collected over the past 4 years visualizes the significance of ARCS in the field of computer architecture. Workshops and tutorials on reserved days enable the community to discuss recent achievements and to establish new contacts and collaborations on leading edge technology. Keynotes from highest ranked academia as well as from commercial institutions show the meaning of ARCS.

	2014	**2013**	**2012**	**2011**
Location	Lübeck Germany	Prague Czech Rep.	Munich Germany	Como Italy
Workshops	4	3	5	6
Tutorials	-	1	2	2
Keynotes	3	3	2	2
Paper presentations	23	29	20	22
Participants	85	81	76	78

Keynotes have been given among others by Ravi Nair (IBM Thomas J. Watson Research Center, 2014), Thomas Ludwig (German Climate Computing Centre, 2014), Herbert Cornelius (Intel, 2013), Sebastian Steibl (Intel, 2012), Giuseppe Desoli (STMicroelectronics, 2011) and other excellent speakers from academia and industry.

ARCS 2015 – Main Focus

- Multi-/many-core architectures, memory systems, and interconnection networks.
- Models and tools for multi-/many-core systems including but not limited to programming models, runtime systems, middleware, and verification.
- Design, methods, and hardware and software architectures for mixed-critical systems.
- Architectures and design methods/tools for robust, fault-tolerant, real-time embedded systems.
- Generic and application-specific accelerators in heterogeneous architectures.
- Cyber-physical systems and distributed computing architectures.
- Adaptive system architectures such as reconfigurable systems in hardware and software.
- Organic and Autonomic Computing including both theoretical and practical results on self-organization, self-configuration, self-optimization, self-healing, and self-protection techniques.
- Operating Systems including but not limited to scheduling, memory management, power management, and RTOS.
- Energy-awareness and green computing.
- System aspects of ubiquitous and pervasive computing such as sensor nodes, novel input/output devices, novel computing platforms, architecture modeling, and middleware.
- Grid and cloud computing.

ARCS – Your Contribution

Even if you are not able to submit a regular paper you can actively contribute to the success of ARCS. Especially in the process of expansion to industry being one of the first industrial partners gives you an outstanding role in the community.

Type	Description	Gold	Silver	Bronze	Partner
Logo	On welcome slides, in proceedings, on website with link to company	√	√	√	√
Give-away	In conference bag	√	-	-	-
Poster	In Poster and coffee break area	√	√	-	-
Fee	Waivers	2	2	1	-
	Discount for extra participant	30%	20%	10%	-
Social event	Only one partner, extra cost: €5000,-	√	-	-	-
Welcome reception	Only one partner, extra cost: €2000,-	√	√	-	-
Price		€1500	€1000	€600	€250

Additionally, in case you choose either a **Gold** or **Silver** plan, we also provide the possibility for a promotional booth for your company for an extra cost of 500€. The booth will be standing in the social event and coffee break sites.

Of course, we would be happy to provide you with an individual plan according to your ideas or an in-kind offer. So be creative and contact us.

ARCS 2015 – Contact

If you are interested in actively supporting ARCS for its further success story or if you have any questions do not hesitate to contact us.

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