

Agent Day 2013: Agents in intelligent computing and simulation systems

will be held during the [FedCSIS 2013](#) in Kraków, Poland.

During the last decade agent systems have been constantly developed and many approaches were successful in such areas as transport, decision support, distributed monitoring and control systems, computation. Such immanent features of the agents like autonomy or task-orientation assured the result. These (and others) features of the agent systems may be further extended to produce new paradigms for constructing scalable computing systems with focus on grid computing, cloud computing, resilient control and monitoring systems, SCADA and many more.

It is also worth noticing, that hardware available several years ago, such as computing clusters, are nowadays outperformed by simple desktop sets or even portable computers. Even environment appliances such as gaming consoles or GPUs may be used to perform complex computations in parallel, much faster than even multi-core CPUs. Such a plethora of possibilities calls for promotion and dissemination of results and ideas connected or inspired by agent-based systems or their features.

For the “Agent Day” Session we would like to give guidance in the following subject, that do not exhaust all the possibilities:

- multi-agent management, scheduling, load-balancing
- multi-agent computation and simulation

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- stochastic and structural modeling of complex systems
- distributed and grid computing
- software reuse in complex systems
- GPU and gaming consoles for computing
- nature-inspired, evolutionary and memetic computing
- scalability, extendability, resilience in complex systems
- mobile robotics
- data-intensive computing
- various application of multi-agent systems

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