

# IVA2011

## ICELAND

Reykjavík 15-17 September 2011



Intelligent virtual agents (IVAs) are interactive characters that exhibit human-like qualities and communicate with humans or with each other using natural human modalities such as speech and gesture. They are capable of realtime perception, cognition and action that allows them to participate in dynamic social environments.

IVA 2011 is an interdisciplinary annual conference and the main forum for presenting research on modeling, developing and evaluating intelligent virtual agents with a focus on communicative abilities and social behavior. In addition to presentations on theoretical issues, the conference encourages the showcasing of working applications. Researchers from the fields of human-human and human-robot interaction are encouraged to share work with relevance to IVAs.

### SPECIAL TOPIC: "Language and Culture"

In 2011 the IVA conference will focus on Language and Culture. This topic will touch on many aspects of IVA theory and application. To name a few areas, we will especially encourage submissions that deal with spoken language interaction with agents, including dialog and story-telling agents. Application areas include language and culture training, heritage preservation and entertainment. Interesting issues include how systems deal with language variety, linguistic and cultural modeling, and cultural differences in human-agent interaction.

### GALA 2011

The Gathering of Animated Lifelike Agents (GALA) festival will be held in conjunction with IVA 2011. For more information please visit <http://di.ncl.ac.uk/publicweb/gala2011/>.

### SUBMISSION DETAILS

Prospective authors are invited to submit full papers (12 pages), short papers (6 pages), or poster papers (1-2 pages) in Springer Lecture Notes in Computer Science (LNCS) format. For details on how to submit your paper, consult the conference web site: <http://iva2011.ru.is>.

### IMPORTANT DATES

- \* Submission of all papers: **April 27**
- \* GALA video submission: **May 23**
- \* Notification of acceptance: **June 10**
- \* Camera-ready copies: **June 24**
- \* Conference: **September 15-17**

### TOPICS OF INTEREST

#### Conceptual Frameworks for IVAs

- \* learned, evolved or emergent behavior
- \* improvisational or dramatic interaction
- \* stages of autonomy (from avatars to agents)
- \* simulations of groups and crowds
- \* face-to-face human-agent interaction

#### Design and Evaluation of IVAs

- \* design criteria and design methodologies
- \* evaluation methodologies and user studies
- \* ethical considerations and social impact
- \* dimensions of intelligence, cognition and behavior
- \* models of personality and cultural awareness
- \* models of social competence
- \* models of multimodal perception and action
- \* models of emotional communicative behavior

#### Implementation and Applications of IVAs

- \* software engineering issues
- \* real-time integrated systems
- \* portability and reuse
- \* standards / measures to support interoperability
- \* specialized tools, toolkits and tool chains
- \* specialized modeling and animation technologies
- \* applications in games, education, art, etc.
- \* delivery on various platforms

#### Special Topic: Language and Culture

- \* conversational and story-telling agents
- \* spoken and multimodal dialog interaction
- \* language and culture training agents
- \* applications for heritage preservation
- \* multi-lingual and cross-cultural issues

### CONFERENCE CHAIRS

Hannes Högni Vilhjálmsson, Reykjavík University  
Kristinn R. Thórisson, Reykjavík University  
Stefan Kopp, Bielefeld University  
Stacy Marsella, University of Southern California  
Yngvi Björnsson (posters and demos), Reykjavík University  
Ragnheiður Stefánsdóttir (secretariat), RS Travel Solutions

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