



# Beyond AI

Interdisciplinary Aspects of  
Artificial Intelligence

## Conference Programme

Venue: **University of West Bohemia, Pilsen, Univerzitní 22, room UV115**  
Date: **December 8–9, 2011**

### Thursday, December 8<sup>th</sup>

07:45–08:45 arrival and registration  
08:45–09:00 official opening of the conference

**Keynote Session 1** chair: Jan Romportl  
09:00–10:20 keynote speakers: Jozef Kelemen, Janos Fodor  
10:20–10:30 coffee break  
10:30–11:50 keynote speakers: Matjaz Gams, Paulo Leitao  
11:50–12:30 panel discussion with keynote speakers

12:30–13:30 lunch break

**Session 1** chair: Jozef Kelemen  
13:30–14:00 Catalin Buiu et al.: *Perspectives of using membrane computing in the control of mobile robots*  
14:00–14:30 Manuel Garcia-Quismondo and Mario J. Perez-Jimenez: *Implementing ENPS by means of GPUs for AI applications*  
14:30–15:00 Pavel Nahodil and Jaroslav Vitku: *New way how to build an autonomous creature*  
15:00–15:15 coffee break

**Session 2** chair: Paulo Leitao  
15:15–15:45 Miloslav Hajek and Yashik Singh: *Medical AI - HIV/AIDS Treatment Management*  
15:45–16:15 María C. Rodríguez-Gancedo et al.: *Patient Experience in e-Health ECA Applications*  
16:15–16:45 Zdenek Hanzlicek and Jindrich Matousek: *Voice conservation: Towards creating a speech-aid system for total laryngectomees*

16:45–17:00 coffee break

**Session 3** chair: Matjaz Gams  
17:00–17:30 Peter Mikulecky: *The Fourth Dimension of Aml: Co-existence*  
17:30–18:00 William York and Hamid Ekbia: *Analogy, Aesthetics, and Affect: What HCI Designers Can Learn from AI*  
18:00–18:30 Elena Benderskaya: *Nonlinear Trends in Modern Artificial Intelligence: A New perspective*

19:30–23:00 conference dinner at the Pilsner Urquell Brewery

**Friday, December 9<sup>th</sup>**

**Keynote Session 2** chair: Pavel Ircing

09:00–11:00

keynote speakers: Ivan M. Havel, Søren Holm and Anders Sandberg

11:00–11:30

panel discussion with keynote speakers

11:30–11:45

coffee break

**Session 4**

chair: Anders Sandberg

11:45–12:15

Mateusz Wozniak: *Embodied Agent or Master of Puppets. Human in Relation with his Avatar*

12:15–12:45

Eva Prokesova: *What Is Moral Agency of Artificial Agents?*

12:45–13:15

Eliska Kvetova: *New Emergence as Supervenience Relieved of Problems*

13:15–14:00

lunch break

**Session 5**

chair: Janos Fodor

14:00–14:30

Jan Stebetak et al.: *Neuroinformatics – data management and analytic tools for EEG/ERP research*

14:30–15:00

Daniel Prusa and Vaclav Hlavac: *Hand-drawn Objects with Structure as Means of Communication with Machines*

15:00–15:30

Peter Mikulecky: *Beyond AI: Towards Smart Workplaces*

15:30–15:45

coffee break

**Session 6**

chair: Ivan M. Havel

15:45–16:15

Tzu-Keng Fu: *Against the Usage of "Formal Rules" in the Human Intelligence Investigations*

16:15–16:45

Tarek Richard Besold: *Rationality {in|through|for} AI*

16:45–17:15

Jan Zelinka: *Selfish Genes and Evolutionary Computation*

17:15–17:30

closing ceremony

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<http://beyondai.zcu.cz>

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INVESTMENTS IN EDUCATION DEVELOPMENT