10:00 – 10:10  Welcome
Péter Baranyi, *MTA SZTAKI, BME, Hungary*

10:10 – 11:10  Plenary Session I
Chair: Péter Baranyi, *MTA SZTAKI, BME, Hungary*

10:10  Social Aspects & Speechability in CogInfoCom System
Nick Campbell
*Trinity College Dublin, Ireland*

10:40  On the perception of visual durational speech features: a comparison between native and nonnative speakers
Anna Esposito
*IIASS, Italy*

11:10 – 11:30  Coffee break

11:30 – 12:30  Plenary Session II
Chair: Bjørn Solvang, NUC, Norway

11:30  Relations in the scene of sensors' measurement space human expectations and machine interpretation
Tamás Szirányi
*MTA SZTAKI, Hungary*

12:00  ICT for the disabled
Henriette Steiner
*Goethe GAIT Lab, Hungary*

12:30 – 13:30  Lunch
13:30 – 15:10 **Special Session on “Theoretical Aspects of CogInfoCom”**
Organized and chaired by: Ádám Csapó, MTA SZTAKI, BME, Hungary

13:30 *Integration of CogInfoCom with semantic intelligent space* – I. M. Fülöp, G. Magyar

13:50 *A taxonomy of CogInfoCom trigger types in practical use cases* – Á. Csapó, P. Baranyi, P. Várlaki

14:10 *Bionics and CogInfoCom* – V. Réti, Á. Csapó

14:30 *Stabilization and synchronization of dynamicons through CogInfoCom channels* - P. Baranyi, P. Galambos, Á. Csapó, P. Várlaki

14:50 *Towards radical atoms – form-giving to transformable materials* – D. Lakatos, H. Ishii

15:10 – 15:30 **Coffee break**

15:30 – 16:50 **Track on “Augmented Social Aspects and Speechability in CogInfoCom Systems”**
Organized by: Nick Campbell – Trinity College Dublin, Ireland
Helen Meng – CUHK, Hong Kong
Géza Németh – BME, Hungary

**Session I.** – Chair: Géza Németh

15:30 *Non-verbal cognitive skills and autistic conditions: an analysis and training tool* – H. Tanaka, S. Sakti, G. Neubig, T. Toda, N. Campbell, S. Nakamura


16:10 *Laughter and topic changes: temporal distribution and information flow* – F. Bonin, C. Vogel, N. Campbell

16:30 *Broadcast news transcription in Central-East European languages* – B. Tarján, T. Mozsolics, A. Balog, D. Halmos, T. Fegyó, P. Mihajlik
16:50 – 18:30  Track on “Communicative social signals in human believable ICT interfaces”
Organized by: Anna Esposito – IIASS, Italy
Klára Vicsi – BME, Hungary
Alessandro Vinciarelli – University of Glasgow, UK

Session I. – Chair: Anna Esposito

16:50  Characteristic and spectral features used in automatic prediction of vowel duration in spontaneous speech - A. Beke, M. Gósy

17:10  Calculating Semantic Uncertainty - G. Wirsching

17:30  Entrainment in spontaneous speech: the case of filled pauses in Supreme Court hearings – S. Benus

17:50  Acoustic, semantic and personality dimensions in the speech of traditional puppeteers – M. Rusko, J. Hamar, S. Benus

18:10  BCI and Virtual Collaboration – Á. Lóska
13:30 – 15:10  Track on “ICT for the Disabled” – Demonstrations I
Organized and chaired by: **Henriette Steiner**, Goethe GAIT Lab, Hungary

13:30  Establishment of the database storing and evaluating anthropometric data – M. Taliga, H. Kertész

13:50  Effect of therapeutic riding on the coordination of movements of blind children – **H. Steiner**

14:10  Effect of therapeutic riding on Center of Gravity (COG) parameters of blind children – **H. Steiner, Z. Kertész**

14:30  Effect of therapeutic riding on joint angles parameters of visually impaired children – **H. Steiner, Z. Kertész**

14:50  Effect of therapeutic riding on Gait Cycle parameters and behavioural skills of autistic children – **H. Steiner, Z. Kertész**

15:10 – 15:30  Coffee break

15:30 – 16:50  Track on “ICT for the Disabled” – Demonstrations II
Organized and chaired by: **Henriette Steiner**, Goethe GAIT Lab, Hungary

15:30  Effect of eurithmy and therapeutic riding on gait cycle, center of gravity (COG) and joint angles parameters of cerebralis palsy – **H. Steiner, Zs. Kertész**

15:50  Effects of steady motion fitness – **H. Steiner, Zs. Kertész, B. Abonyi**

16:10  Goethe GAIT Lab – why do we use APAS? - **H. Steiner, Zs. Kertész**

16:30  Motion capture ariel performance analysis system – **H. Steiner, Zs. Kertész, P. Kovács, N. Juhász**
16:50 – 18:10  **Track on “ICT for the Disabled” – Demonstrations III**
Organized and chaired by: **Henriette Steiner** – Goethe GAIT Lab, Hungary

16:50  *Effect of eurithmy on gait cycle, center of gravity (COG) and joint angles parameters of reumathoid arthritis* – H. Steiner, Zs. Kertész

17:10  *Effect of karate exercises on joint angles’ parameters* - H. Steiner, Zs. Kertész, Zs. Bedecs

17:30  *Effect of karate exercises on gait cycle parameters* - H. Steiner, Zs. Kertész, Zs. Bedecs

13:30 – 15:10 **Session on “Vision-based Human Computer Interaction”**
Organized by: Tamás Szirányi – MTA SZTAKI, Hungary
Zoltán Vidnyánszky – PPKE, Hungary

13:30 *Saliency map estimation by constructing graphs of possible eye-tracking paths* - Sz. Szalai, T. Sziráni, Z. Vidnyánszky

13:50 *About the fixation points in stereo images* – L. Czúni, J. P. Kiss

14:10 *On order-independent sequential thinning* - P. Kardos, K. Palágyi

14:30 *Improving human-computer interaction by gaze tracking* - Zs. Jankó, L. Hajder

14:50 *Eye Movement Related Independent EEG Components during Horizontal and Vertical Reading* - B. Weiss, Z. Vidnyánszky

15:10 – 15:30 **Coffee break**

15:30 – 16:50 **Track on “Interaction Capabilities in Human - System Interfaces”**
Organized by: László Kovács – University of Miskolc, Hungary
Szilveszter Kovács – University of Miskolc, Hungary

**Session I.** – Chair: László Kovács

15:30 *Avoiding boredom and anxiety: a study for rehabilitation application* - C. Redaelli, S. Mottura, M. Sacco


16:10 *Pattern Distillation Methods in Grammar Induction* – L. Kovács, Zs. Tóth

16:30 *Robot Controlling in Natural Language* - L. Kovács, P. Barabás, M. Vircikova
16:50 – 18:30 Track on “Emerging CogInfoCom technologies in industrial oriented research”
Organized by: Bjørn Solvang – NUC, Norway
Session on “CogInfoCom in Logistics and Supply Chain Management”
Chairs: Wei Deng Solvang, Erlend Alfnes

16:50 Understanding cognitive aspects in measuring flexibility of a supply chain – W. D. Solvang, B. Solvang

17:10 A multi-objective decision support system (DSS) for simulation and optimization of municipal solid waste (MSW) management system – H. Yu, W. D. Solvang, S. Yuan


17:50 A concept for collaborative supply chain order planning - E. Alfnes

18:10 Computational method for corrective mechanism of cognitive decision-making biases – P. Földesi, J. Botzheim
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tr>
<td>9:00 – 10:00</td>
<td>Opening Ceremony</td>
<td>Péter Baranyi, General Chair, MTA SZTAKI, BME, Hungary</td>
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<td>Anton Cizmar, Rector of TUKE, Slovakia</td>
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<td>Imre Rudas, Rector of ÖE, Hungary</td>
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<td>9:30</td>
<td>Overview of CogInfoCom</td>
<td>Péter Baranyi, MTA SZTAKI, BME, Hungary</td>
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<td>10:00 – 10:30</td>
<td>Plenary Session I</td>
<td>Péter Baranyi, MTA SZTAKI, BME, Hungary</td>
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<td>VISIONAIR: a European Infrastructure about Visualization and Interaction for Research: Opportunities for Transversal Research – Application to Some CogInfocom Issues</td>
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<td>Grenoble-INP, France</td>
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<td>10:30 – 10:50</td>
<td>Coffee break</td>
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<td>10:50 – 12:10</td>
<td>Plenary Session II</td>
<td>Chair: Gábor Magyar, BME, Hungary</td>
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<td>10:50</td>
<td>Supporting multiple mobile platforms with model driven methodologies</td>
<td>Hassan Charaf, BME, Hungary</td>
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<td>11:20</td>
<td>Social robots in service to elderly - DOMEO project</td>
<td>Philippe Bidaud, Eric Lucet, András Tóth</td>
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<td>ISIR, France, Robosoft, France, BME, Hungary</td>
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<td>(Plenary Demonstration)</td>
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<td>12:10 – 13:00</td>
<td>Lunch</td>
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</table>
13:00 – 14:20  **Special Track on “The Visionair Project”**
Organised by: Frédéric Noël – Grenoble-INP, France

**Session I.** – Chair: Frédéric Noël

**13:00**  *The human spatiotemporal comfort zone and its technology-based enhancement*  - D. Dori

**13:20**  *Advanced virtual reality visualisation systems based on a meta-model dedicated to historical knowledge*  – B. Hervy, F. Laroche, J.-L. Kerouanton, A. Bernard

**13:40**  *Cooperative tabletop working for humans and humanoid robots: early investigations into artifact indication*  – H. Z. H. Mamode, P. Bremner, T. Pipe, B. Carse

**14:00**  *Artificial companion and acceptability a problem of design?*  – S. Pesty, D. Duhaut

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14:20 – 15:40  **Special Track on “The Visionair Project”**
Organized by: Frédéric Noël – Grenoble-INP, France

**Session II** – Chair: Dov Dori

**14:20**  *Embedding the features of the users' physical environments to improve the feeling of presence in collaborative virtual environments*  – T.Duval, H.Nguyen, C.Fleury, A.Chauffaut, G.Dumont, V.Gouranton

**14:40**  *Designing and evaluating a workstation: from the digital mock-up to the realization*  – C. Pontonnier, G. Dumont, A. Samani, P. Madeleine, M. Badawi

**15:00**  *Global collaboration and transactional distance - development of a TD assessment instrument for the VISIONAIR Project*  – N. Wengrowicz, Y. J. Dori, D. Dori

**15:20**  *Qualitative comparison of 2D and 3D perception for information sharing dedicated to manufactured product design*  – F. Noël, Anh Nguyen Nguyen Ba, S. Sadeghi

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15:40 – 16:00  **Coffee break**
Special Track on “The Visionair Project”
Organized by: Frédéric Noël – Grenoble-INP, France
Session III – Chair: Georges Dumont

16:00  VirCA NET and CogInfoCom: novel challenges in future internet based augmented/virtual collaboration – C. Weidig, Á. Csapó, J. Aurich, B. Hamann
16:20  VirCA NET: A case study for collaboration in shared virtual space - P. Galambos, C. Weidig, P. Baranyi, J. C. Aurich, B. Hamann
16:40  Probabilistic bi-directional root-pattern relationships as cognitive model for semantic processing of arabic – B. Haddad

Special Session on TÁMOP - FIRST Project:
Customizable Content Management - (TÁMOP-4.2.2.C-11/1/KONV-2012-0001)
Organized and chaired by: András Hajdu – University of Debrecen, Hungary

17:20  An ensemble-based collaborative framework to support customized user needs – A. Hajdú, J. Tóth, Z. Pistar, B. Domokos, Zs. Török
17:40  Cognitive aspects of a web-based geovisualization application - M. Zichar
18:00  Controlling talking head with the motion sensor of a wireless connected smart phone (DEMONSTRATION) – R. Kunkli, R. Tornai, I. Papp

Welcome Reception
19.00 o’clock
13:00 – 14:20  **Track on “Cognitive Mobile Applications”**  
Organized and chaired by: Hassan Charaf – BME, Hungary  
**Session I**

13:00  *Surrounding robots: a localized solution for the intruder problem* – L. Blazovics, T. Lukovszki, B. Forstner


13:40  *Resource requirement estimation of mobil supported websites* – G. Kocsis, P. Ekler

14:00  *Analyzing behavior patterns among mobile BitTorrent users* – P. Ekler, K. Csorba

14:20 – 15:40  **Track on “Cognitive Mobile Applications”**  
Organized and chaired by: Hassan Charaf – BME, Hungary  
**Session II.**

14:20  *Development and customization of individualized mobile healthcare applications* – A. Minutolo, M. Esposito, G. De Pietro

14:40  *Cooperative motion and sensor self-deployment (DEMONSTRATION)* – L. Blázovics, B. Forstner

15:00  *MobTorrent Usage Statistics (DEMONSTRATION)* – P. Ekler, K. Csorba, G. Kocsis

15:20  *Automatic area discovery using commercial Quadrocopter (DEMONSTRATION)* – L. Kundra, M. Fehér

15:40 – 16:00  **Coffee break**
16:00 – 17:20  Track on “Emerging CogInfoCom Technologies in Industrial Oriented Research”
Organized by:  Bjørn Solvang – NUC, Norway
Session on CogInfoCom in Manufacturing - Chair: Bjørn Solvang

16:00  Towards easier human-robot interaction to help inexperienced operators in SMEs – S. Pieskä, J. Kaarela, O. Saukko


16:40  Situation aware robots and transporters – J. Jämsä, S. Pieskä, M. Luimula, I. Siio, M. Komatsuzaki

17:00  RFID Communication in Container Ports – H. Hakam, W. D. Solvang

17:20 – 18:20  Session on “Industry Oriented Applications of CogInfoCom”
Chair: Trygve Thomessen – PPM AS, Norway

17:20  Pragmatics in the Usability discipline – A. S. Szöllősy, G. Vitályos

17:40  New trends in industrial robot controller user interfaces – A. Aryania, T. Thomessen, G. Sziebig

18:00  VALIP - Virtual joint laboratory for advanced information technology in production (DEMONSTRATION) – T. Thomessen

Welcome Reception
19.00 o’clock
13:00 – 14:20  Track on “Communicative social signals in human believable ICT interfaces”
Organized by: Anna Esposito – IIASS, Italy
            Klára Vicsi – BME, Hungary
            Alessandro Vinciarelli – University of Glasgow, UK

Session II. – Chair: Klára Vicsi

13:00  Thinking about the present and future of the complex speech recognition – K. Vicsi

13:20  Automatic prosodic and syntactic analysis from speech in Cognitive Infocommunication – Gy. Szaszák, A. Beke


14:00  Emotion recognition from spontaneous Slavic speech – H. Atassi, Z. Smékal, A. Esposito

14:20 – 15:40  Special Session on DOMEO Project: Social Robots in Service to Elderly
Organized and chaired by: András Tóth – BME, Hungary

14:20  Multimodal human detection and fuzzy decisional engine for interactive behaviors of a mobile robot – C. Granata, P. Bidaud

14:40  Examples of multimodal user interfaces for socially assistive robots in ambient assisted living environments – P. Mayer, C. Beck, P. Panek

15:00  Home deployment of a doubt removal telecare service for cognitively impaired elderly people: a field deployment – P.Rumeau, N.Vigouroux, B. Boudet, G. Lepicard, G. Fazekas, F. Nourhachemi, M. Savoldelli

15:20  “Kompai, go docking please!”–large scale field test of a social robot in users’ homes–A.Tóth, G.Fazekas, T.Pilissy, K.Zsiga, D.Kovács, T. Nagy

15:40 – 16:00  Coffee break
16:00 – 17:20 Track on “Communicative social signals in human believable ICT interfaces”
Organized by: Anna Esposito – IIASS, Italy
Klára Vicsi – BME, Hungary
Alessandro Vinciarelli – University of Glasgow, UK
Session III. – Chair: Alessandro Vinciarelli

16:00 Learning how to teach from "videolectures": automatic prediction of lecture ratings based on teacher's nonverbal behavior – P. Salvagnini, H. Salamin, M. Cristani, A. Vinciarelli, V. Murino

16:20 Key interpersonal communication skills for wheelchairs – V. Mast, D. C. Vale

16:40 Design and development of the Slovak multimodal dialogue system with the BML Realizer Elckerlyc – S. Ondas, J. Juhar

17:00 Annotating and analyzing emotions in a corpus of first encounters – C. Navarretta

17:20 – 18:20 Track on “Cognition”
Organized by: Caludiu Pozna – Széchenyi Istán University, Hungary
Radu-Emil Precup – University of Brasov, Romania
Session I. - Chair: Claudiu Pozna

17:20 Car driver skills assessment based on driving postures recognition – M.-I. Toma, L. Rothkrantz, Cs. Antonya

17:40 A system designed to control and monitor a flexible manufacturing system – A. D. Codescu, F. Sisak

18:00 Prediction emotion student module based on CVS-emotional agent for ATS platform – H. Moga, Cs. Antonya

Welcome Reception
19.00 o’clock
4th December, 2012 (Tuesday) - Morning

9:00 – 10:30  Plenary Session I
Chair: Péter Baranyi, MTA SZTAKI, BME, Hungary

9:00  Neuroscience of Augmented Reality
Valéria Csépe, MTA, Hungary

9:30  On Industrial Robots and Cognitive Infocommunication
Bjørn Solvang, NUC, Norway

10:00  Methods and Trends in Development of Human-System Interaction Capabilities
László Kovács, University of Miskolc, Hungary

10:30 – 10:50  Coffee break

10:50 – 12:10  Plenary Session II
Chair: Mihoko Niitsuma, Chuo University, Japan

10:50  Haptic and tactile interactions for cognitive information communication
Gi-Hun Yang, KITECH, Japan

11:20  VirCA NET: a collaborative use case scenario on factory layout planning
Péter Galambos  Christian Weidig
MTA SZTAKI  University of Kaiserslautern
(Plenary Demonstration)

12:10 – 13:00  Lunch

13:00  Towards Radical Atoms
Hiroshi Ishii, MIT, USA
13:30 – 14:50  Special Session on Human Auditory and Spatial Cognition  
Organized by: Valéria Csépe – MTA, Hungary  
Chair: Ferenc Honbolygó

13:30  Intensity dependent interaction in audiovisual integration – Á. Török, K. K. Asbóth, F. Honbolygó, V. Csépe

13:50  Ventriloquism aftereffect in a virtual audio-visual environment – F. Honbolygó, L. Veller, V. Csépe


14:30  Auditory perceptual organizations emerging from competition between proto-objects (DEMONSTRATION) – T. M. Böhm, R. W. Mill, A. Bendixen, I. Winkler, S. L. Denham

14:50 – 15:10  Coffee break

15:10 – 16:30  Track on “Emerging CogInfoCom Technologies in Industrial Oriented Research”  
Organized by: Bjørn Solvang – NUC, Norway  
Session on “CogInfoCom in product design” – Chair: Åsa Ericson

15:10  Enhancing intra-cognitive communication in product design with color-coded CAD models – A. Bertoni, Å. Ericson

15:30  Enhancing intra-cognitive communication between engineering designers and operators: A case study in the laser welding industry – C. Johansson, J. Frostevarg, A. Kaplan, M. Bertoni, K. Chirumalla

15:50  Changes in present product design - opportunities for industrial oriented research – H. Nergård, Å. Ericson

16:10  Discussing the role of the physical model in intra-cognitive communication – A. Håkansson, H. Nergård
16:30 – 17:50  Track on “Communicative social signals in human believable ICT interfaces”
Organized by: Anna Esposito – IIASS, Italy
Klára Vicsi – BME, Hungary
Alessandro Vinciarelli – University of Glasgow, UK

Session IV – Chair: Anna Esposito

16:30  Examination of the sensitivity of acoustic-phonetic parameters of speech to depression – K. Vicsi, D. Sztahó, G. Kiss

16:50  Prosodic forms and pragmatic meanings: the case of the discourse marker ‘no’ in Slovak – S. Benus

17:10  Epistemic signals and emoticons affect Kudos – C. Vogel, L. M. Sanchez

17:30  Improving performance of talking heads by expressing emotions – L. Czap, M. J. Pinter

Round Table Discussion
18.00 – 19.00

Banquett
19 o’clock
13:30 – 14:50 Special session on “The Structure of Multimodal Communication: Principles vs. Optionality
    Organized and chaired by: László Hunyadi – University of Debrecen, Hungary

    13:30 Topic change detection based on prosodic cues in unimodal setting – G. Esfandiari, I. Szekrényes

    13:50 The role of discourse markers in the generation and interpretation of discourse structure and coherence – Á. Abuczki

    14:10 Annotation of spoken syntax in relation to prosody and multimodal pragmatics – H. Kis, I. Szekrényes, A. Borbély, L. Hunyadi

    14:30 Multimodality and spontaneity in human-computer interactions analogies of ontogeny (DEMONSTRATION) – B. Alexa

14:50 – 15:10 Coffee break

15:10 – 16:30 Special session on “Spatio-Temporal Capabilities of Computer Vision”
    Organized by: Jankó Zsolt – MTA SZTAKI, Hungary
    Chair: Chetverikov Dmitry

    15:10 A unifying framework for non-linear registration of 3D objects – Zs. Sánta, Z. Kató

    15:30 High-quality structured-light scanning of 3D objects using turntable – Cs. Kazó, L. Hajder


    16:10 Multiview 3D-4D reconstruction at MTA SZTAKI – D. Chetverikov, L. Hajder, Zs. Jankó, Cs. Kazó, J. Hapák
16:30 – 17:50  **Track on “Cognition”**
Organized by: Caludiu Pozna – Széchenyi Istán University, Hungary
Radu-Emil Precup – University of Brasov, Romania

**Session II** – Chair: Claudiu Pozna


16:50  *A general formulation of abduction algorithms* – C. Pozna, R-E. Precup

17:10  *Cognitive Control Initiative* – J. Tar, I. Rudas, K. Kósi, Á. Csapó, P. Baranyi

17:30  *Fuzzy search space for correction of cognitive biases in constructing mathematical models* – Zs. Dányádi, P. Földesi, L. T. Kóczy

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**Round Table Discussion**
18.00 – 19.00

**Banquett**
19 o’clock
Invited Session on “Cognitive Ergonomics”
Organized by: Károly Hercegfi – BME, Hungary
Anita Komlódi – UMBC, USA
Laura Slaughter – NTNU, Norway
Chair: Károly Hercegfi

13:30 Characterization techniques for user's preference and navigation - R. Mátrai, Zs. Kosztyán
13:50 Human-information interaction in 3d immersive virtual environments – A. Komlódi, K. Hercegfi, E. Józsa, M. Köles
14:10 Is the heart period variability-based usability measurement of mental effort robust enough against arm movements? – M. Köles, K. Hercegfi
14:30 Trust and credibility on the web: the relationship of web experience levels and user judgments – E. Józsa, A. Komlódi, R. Ahmad, K. Hercegfi

Coffee break

Session on CogInfoCom interfaces - applications
Chair: Mihoko Niitsuma – Chuo University, Japan

15:10 Basic verification of body sway characteristics for personal vehicle drivers – S. Ajisaka, S. Nakamura, T. Kubota, H. Hashimoto
15:30 Three-layered architecture with variable task flow for teleoperator – K. Hoshino, Y. Kunii
15:50 Tactile sensation using vibrotactile glove interface – Y. Muramatsu, M. Niitsuma
16:10 Mobile multimodal human-robot interface for virtual collaboration – Y. E. Song, M. Niitsuma, T. Kubota, H. Hashimoto, H. I. Son
16:30 – 17:50 Session on “Interactive 3D Visualisation in Industry”
Organized by: Sándor Kopácsi – MTA SZTAKI, Hungary
Chair: Géza Bognár – Dennis Gabor College, Hungary

16:30 Interactive visualisation in 3D – S. Kopácsi
16:50 Three dimensional web development (DEMONSTRATION) – Gy. Neumann, B. Zsiga, S. Kopácsi
17:10 Interactive robot modeling in 3D (DEMONSTRATION) – Zs. Molnár, Z. Zatroch, S. Kopácsi
17:30 Modeling, rendering and controlling multifunctional furniture in 3D space (DEMONSTRATION) – J. Kovács, S. Kopácsi

Round Table Discussion
18.00 – 19.00

Banquett
5th December, 2012 (Wednesday) - Morning

9:30 – 10:00  Plenary Session
Chair: Anna Esposito, IIASS, Italy

Reuse and recycling for sustainability (research on product life-cycle management using cognitive info-communications)

György Kovács
MTA SZTAKI, Hungary

10:00 – 10:20  Coffee break

10:20 – 12:00  Track on “Augmented Social Aspects and Speechability in CogInfoCom Systems”
Organized by: Nick Campbell – Trinity College Dublin, Ireland
Helen Meng – CUHK, Hong Kong
Géza Németh – BME, Hungary

Session II – Chair: Géza Németh

10:20  On modeling non-word events in large vocabulary continuous speech recognition – G. Sárosi, B. Tarján, A. Balog, T. Mozsolics, P. Mihajlik, T. Fegyó


11:00  Application of the NAO humanoid robot in the treatment of marrow-transplanted children (DEMONSTRATION) – E. Csala, G. Németh, Cs. Zainkó

11:20  A novel codebook-based excitation model for use in speech synthesis
T. G. Csapó, G. Németh
12:00 – 13:40 Session on “Conversational Capabilities in Cognitive Robotics”
Organized by: Kristiina Jokinen – University of Helsinki, Finland
Graham Wilcock – University of Helsinki, Finland
Chair: Graham Wilcock

12:00 Multimodal conversational interaction with a humanoid robot – Á. Csapó, E. Gilmartin, J. Grizou, J. Han, R. Meena, D. Anastasiou, K. Jokinen, G. Wilcock

12:20 Integration of gestures and speech in human-robot interaction – R. Meena, K. Jokinen, G. Wilcock

12:40 Investigating the use of non-verbal cues in human-robot interaction with a Nao robot – J. Han, N. Campbell, K. Jokinen, G. Wilcock

13:00 Open-domain conversation with a NAO robot (DEMONSTRATION) – Á. Csapó, E. Gilmartin, J. Grizou, J. Han, R. Meena, D. Anastasiou, K. Jokinen, G. Wilcock
10:20 – 12:00  **Track on “Interaction Capabilities in Human-System Interfaces”**
Organized by: **László Kovács** – University of Miskolc, Hungary  
**Szilveszter Kovács** – University of Miskolc, Hungary

**Session II.** – Chair: Szilveszter Kovács

10:20  *Implementation and assessment of the automatic question generation module* – **L. Bednarik**

10:40  *Automatic bank office service providing based on semantic content of the client needs* – **L. Dudás**

11:00  *Possibilities of a multi-functional human-computer interaction in everyday life* – **T. Gregus, G. Geda, P. Magyar, I. Fazekas**

11:20  *Human-robot interaction: importance, opportunities, and educational responsibility in this regard* – **P. Magyar, G. Geda, T. Gregus, I. Fazekas**

11:40  *Our experiences during the development of the voice control for a monorail* – **A. Trohák, Z. Biró, L. Méhes, J. Mária Pintér**

12:00 – 13:40  **Session I on “Humanoid” ICT**  
Chair: Péter Galambos – MTA SZTAKI, Hungary

12:00  *A virtual reality platform to study rf propagation in body area networks* – **K. Sayrafian-Pour, J. Hagedorn, W-B. Yang, J. Terrill**

12:20  *Predicting the sentiment in sentences based on words: an exploratory study on ANEW and ANET* – **D. Gokcay, E. Isbilir, G. Yildirim**

12:40  *Influence of simulation and real implementation skills on the cognitive learning aspects* – **M. Bayani**

13:00  *Device for animal experiments in neuroscience research* – **M. A. Martín-Pascual, C. Andreu-Sánchez, S. Hernández-González, A. Gruart, J. M. Delgado-García**
10:20 – 12:00  Session II on “Humanoid” ICT  
Chair: Klára Vicsi, BME, Hungary

10:20  Context model for ability-based automatic UI generation – M. Macik

10:40  Is Cognitive Science a science at all? – M. Suwara, Jan W. Płazowski

11:00  Repairing conceptual relations in ontologies by means of an interactive visual reasoning: cognitive and design principles – G. A. Aranda-Corrall, J. Borrego-Díaz, A. M. Chávez-González

11:20  Detecting and processing objects using radio waves and opto-electrical methods – E. Zubán, K. Kovács, H. Lábadi

11:40  Augmented Reality for Education – A. Rezayi, B. Parhizkar, T. Braisford, W. Khalid

12:00 – 13:40  Session on “Ethological Aspects of Communication between Heterogeneous Agents”  
Organized and chaired by: Ádám Miklósi – ELTE, Hungary

12:00  Potential application of autonom and semiautonom robots in the study of animal behavior – Á. Miklósi, L. Gerencsér

12:20  Cellphone evolution – applying evolution theory to an info-communication system – T. Faragó, Á. Miklósi

12:40  Mutual communication in navigation of visually impaired – J. Balata, Z. Míkovec, P. Slavík

13:00  Application of predictive coding in the evolution of artificial neural network – H. Mohabeer, K.M.S Soyjaudah

13:20  Cutaneous mechanoreceptor simulator – D. Madrigal, G. Torres, F. Ramos, L. Vega