Sunday 22 November

19.00 - 22.00  Registration, welcome, walking buffet
Ambassador Room + bar next to Ambassador Room

Monday 22 November

09.00 – 09.15  Welcome. Overview of the structure of the Conference
Excelsior Room

**ICT, health and care**
Excelsior Room

09.15 – 10.40  1. Interaction Session
**Medical access to the human brain**

*Introductions:*
- Direct brain-computer interfaces: individual, social, and ethical issues
  Elisabeth Hildt
  1 University of Mainz (Germany)

- Brain gene transfer and brain implants
  Rolando Meloni\(^1\), Nicole Faucon Biguet\(^2\), Jacques Mallet\(^1\)
  1 Centre National de la Recherche Scientifique (France)
  2 Institut National de la Santé et de la Recherche Médicale (France)

*Discussion and Interaction*

11.20 – 13.00  2. Interaction Session
**Health care and mental care**

*Introductions:*
- Responsibilities within an Ambient Assisted Living healthcare project
  Neelke Doorn\(^1\)
  1 Delft University of Technology (Netherlands)

- An Innovative way of learning: adaptive decision mobile learning system for people with mental disabilities
  Saeed Zare\(^1\), Heidi Schelhowe\(^1\)
  1 Dimeb (Digital Media in Education), University of Bremen (Germany)

*Discussion and Interaction*
Security and biometrics
Ambassador Room

09.15–10.40  1. Interaction Session
Security in danger

Introductions:

The digitalization of the European migration policy
Michiel Besters¹ Frans Brom¹
¹ Rathenau Institute (Netherlands)

New security technologies: beyond the privacy-security dilemma
Vincenzo Pavone¹, Sara Degli Esposti²
¹ Institute of Public Policies (IPP) – CSIC (Spain)
² University Carlos III Madrid (Spain)

Security in the danger zone: normative issues of next generation biometrics
Irma van der Ploeg¹
¹ Zuyd University (Netherlands)

Discussion and Interaction

11.20-13.00  2. Interaction Session
Emotional Biometrics

Introductions:

Daniel Nagel¹
¹ Wirtschaftsrechtskanzlei, Bongen, Renaud & Partner (Germany)

Biometric monitoring of behaviour
Dimitrios Tzovaras¹
¹ Aristotle University of Thessaloniki (Greece)

Limits and possibilities for use of biometrics in public policy
Peter Hustinx¹
¹ European Data Protection Supervisor, EPDS (Belgium)

Discussion and Interaction

Legal Aspects
Bourgmestres Room

11.20-13.00  1. Interaction Session
RFID. Implants and the human body

Introductions:

Legal aspects of ICT implants
Stefano Rodotà¹,
¹ La Sapienza, Fondazione Basso (Italy)

Diane Whitehouse²,
² The Castlegate Consultancy, (United Kingdom)

Penny Duquenoy³
³ Middlesex University (United Kingdom)

Discussion and Interaction
2. Interaction Session

Privacy. Toward an electronic identity?

**Introductions**

Legal concepts of human identity?
Stefano Rodotà¹,
La Sapienza, Fondazione Basso, Rome (Italy)

On Interpreting and Constructing (Non-)Human Identities
Rafael Cappuro¹
International Center for Information Ethics, Karlsruhe (Germany)

DNA barcoding and personal genomics
Giuseppe Novelli¹
Tor Vergata University (Italy)

**Discussion and Interaction**

The future of the internet
Excelsior Room

14.20-16.00

Interaction Session

Privacy. Toward an electronic identity?

**Introductions**

The social future of the “Internet of X”
Jonathan Cage¹
Rand Corporation, (United Kingdom)

The approach of the OASIS project
Karel Van Isacker¹
Access for All.eu - Marie Curie Association (Bulgaria)

Ongoing changes in internet protocols
Rudy Vansnick¹
Board EURALO (ALAC – ICANN)

**Discussion and Interaction**

Golden Eurydice Award
Excelsior Room

16.40-18.20

**Golden keynote lectures**

**Emile Aarts**
Eindhoven, The Netherlands

**Kevin Warwick**
Reading, United Kingdom

**Personal vision on ICT**

18.20-20.00

Reception
with finger food
Arthur Rubinstein Room
Tuesday 23 November

Robotics and convergence of the real and the virtual
Excelsior Room

09.00–09.35

1. Keynote lecture.

Roboethics: Social and Ethical Implications of Robotics
Gianmarco Veruggio
Genova
Italy

09.40–10.40

2. Interaction Session
Robotics in daily life

The future of human machine interaction – integrated robots and smart homes
Atta Badii\textsuperscript{1}, Daniel Thiemert\textsuperscript{1}
1 University of Reading, Intelligent Media Systems & Services Research Centre (United Kingdom)

Artificial companions? Empathy and vulnerability mirroring in human-robot relations
Mark Coeckelbergh\textsuperscript{1}
1 University of Twente (The Netherlands)

The robotic companion
Gianmarco Veruggio\textsuperscript{1}
1 CNR-IEIIT, Genova (Italy)

Discussion and Interaction

11.20–13.00

3. Interaction Session
Disappearing interfaces

Implants, chips and transhumanism
Fernand Doridot\textsuperscript{1}
1 ICAM de Lille (Engineering School) (France)

Brain-computer interfaces: the challenges ahead
Bert Gordijn\textsuperscript{1}
1 Dublin City University (Ireland)

Interaction metaphors for the exploration of ubiquitous environments
René Reiners\textsuperscript{1}, Marc Jentsch\textsuperscript{1}, Christian Prause\textsuperscript{1}
1 Fraunhofer FIT (Germany)

Discussion and Interaction
Learning from converging technologies
Ambassador Room

09.40-10.40  Interaction Session

Introductions:
A tentative methodology for responsible planning of nano-research
Lieve Goorden¹, Marian Deblonde¹
1 University of Antwerp (Belgium)

Lessons from the Genetically Modified Organisms controversy case for ethical issues in ICT and future technologies
Philippe Goujon¹, Catherine Flick¹
1 Facultés Universitaires Notre-Dame de la Paix Namur (Belgium)

Discussion and Interaction

Technology, its users and society
Ambassador Room

11.20-13.00  1. Interaction Session
Identifying new social issues

Introductions:
A framework for identifying emerging ethical issues in future and emerging technologies
Bernd Carsten Stahl¹, Kutoma Wakunuma¹
1 De Montfort University (United Kingdom)

Conditions for a critical perspective on Ambient Intelligence: ethical and social issues
Philippe Goujon¹, Catherine Flick¹
1 Facultés Universitaires Notre-Dame de la Paix Namur (Belgium)

An inquiry into the ethical analysis of ICTs: an innovation systems perspective
Aygen Kurt¹, Penny Duquenoy¹
1 Middlesex University (United Kingdom)

Discussion and Interaction

14.20-16.00  2 Interaction Session
Inclusion and exclusion

Introductions:
The CONFIDENCE system: older people’s input at the requirements and conceptual model evaluation stages
Narciso González¹, Anna Kämäräinen¹, Outi Kalla¹, Igone Vélez²
1 University of Jyväskylä (Finland)
2 Centro de Estudios e Investigaciones Técnicas de Gipuzkoa (Spain)

Dealing with disruptions: providing internet access to mobile users on a train
Olaf Bergmann¹, Stefanie Gerdes¹, Jörg Ott², Nils Seifert³, Caleb Carroll⁴, Nigel Wallbridge⁴
1 University of Bremen TZI (Germany)
2 TKK Comnet (Finland)
3 Lysatiq GmbK (Germany)
4 Nomad Digital, Ltd. (United Kingdom)

ICT that makes the difference for marginalised youngsters
Jan Dekelver¹, Wouter Van den Bosch²,
1 K.H.Kempen - K.U.Leuven (Belgium)
2 K.H.Mechelen (Belgium)

Discussion and Interaction
Developing new research
Excelsior Room

Interaction Session
Work in Progress

**Introductions:**

**Forensics software for detecting online paedophile activity**
James Walkerdine¹, Phil Greenwood¹, Awais Rashid¹, Paul Rayson¹, Corinne May-Chahal¹, Penny Duquenoy², Patrick Watson², Matt Jones³, Margaret Brennan⁴
1 Lancaster University (United Kingdom)
2 Middlesex University (United Kingdom)
3 Swansea University (United Kingdom)
4 University College Cork (Ireland)

**Breaking the dual function of scientific journals: an arXiv case study**
Karim Gherab-Martin¹
1 Harvard University (United States)

**Beyond good and evil? Morality in computer games**
Geert Gooskens¹
1 University of Antwerp (Belgium)

**ICT and overcoming the vulnerabilities of human life**
Orpheus as a metaphor for the abolition of man and human relationships
Hendrik Opdebeeck¹
1 University of Antwerp (Belgium)

Discussion and Interaction

Open discussion session
Excelsior Room
Soft drinks, water, wine and beer is served

Take your time to find out in private talks or small groups what scientists and science analysts are doing and how their work could link up to yours. Discuss posters, research material and research plans.

**Basis:**

**Accepted posters and research material is displayed**

**Do not use poster panels to post material that has not been approved and selected**

Uses of Ambient Intelligence

**Comment**

**Ambient Intelligence approaches water management**
Peter Mikulecky¹
1 University of Kradec Kralove (Czech Republic)

**Poster**

**A "human-or-bot" authentication means for VoIP systems in the Aml context**
Dimitris Gritzalis¹, Nikos Virvilis¹, Alexios Mylonas¹, Yannis Soupionis¹
1 Athens University of Economics & Business (Greece)

**Poster**

**Context grouping and distribution in the MUSIC middleware**
Yves Vanrompay¹, Yolande Berbers¹
1 K.U.Leuven (Belgium)
Discovery and interaction in smart environments
René Reiners¹, Marc Jentsch¹
1 Fraunhofer FIT (Germany)

Emulating the internet for QoE testing
Sam Lefebvre¹, Brecht Vermeulen¹
1 Ghent University, Intec ibcn – IBBT (Belgium)

Managing uncertainty in business and industrial environments
Daniella De Dos¹, Koen Vanhoof¹, Hendrik Van Landeghem²
1 Hasselt University (Belgium)
2 Ghent University (Belgium)

SysTex - For the future of smart fabrics and interactive textiles in Europe
Lina Rambausek¹, Lieva Van Langenhove¹
1 Ghent University (Belgium)

uWear - Wearable technology for you
Alexandru Stan¹, Michael Weber¹, George Ioannidis¹, Roselyne van der Keul², Hugo Verweij², Richard van Tol³
1 IN2 Search Interfaces Development ltd. (Germany)
2 Utrecht School of the Arts (The Netherlands)

Security

Physical and digital security: getting the best of both worlds
Roel Wieringa¹ · Wolter Pieters¹ · André van Cleeff¹
1 University of Twente (The Netherlands)

ICT, health and care

Developing a novel service concept for wellbeing management: methodological perspective to the concept definition
Veikko Ikonen¹
1 VTT (Finland)

Exploring the crossroad between ICT and life sciences through modelling of biochemical data
Wanda Guedens¹, Monique Reynders¹
1 Hasselt University (Belgium)

Ethical aspects

The morality of software usage
Fabian Geier¹
1 University of Bamberg (Germany)

A new participatory conception of technology: when ICT meets ethics
Penny Dugueno², Aygen Kurt¹, Norberto Patrignani², Federico Rajola², Alessia Santuccio²
1 Middlesex University (United Kingdom)
2 Università Cattolica del Sacro Cuore di Milano (Italy)

Legal aspects and privacy

Embracing the 'sousveillance state'
Danny Weston¹, Penders Jacques¹
1 Sheffield Hallam University (United Kingdom)
Wednesday 25 November

European Research Area &
ESLA (Ethical Socio-economic and Legal Aspects) of science

Excelsior Room

09.00-10.40  Information Session

Efforts of the European Commission to monitor the ESLA aspects of the research funded by its framework programmes

Introduction
Maurizio Salvi
Head of the EGE Secretariat,
Member of the Bureau of European Policy Advisors (BEPA)
European Commission, Brussels

11.20-13.00  Concluding Session

Breakout groups

Drawing conclusions for the implementation of Science and Science analysis
1. ICT research  2. ESLA research  3. Science education

Plenary Session

Recommendations to the European Commission, linked to its further Framework Programmes