



# 6th Int'l Conference of the International Society for Gerontechnology

## Final Program





6<sup>th</sup> Int'l Conference of the  
International Society for Gerontechnology

*Pisa, June 4-6, 2008*

*Main Sponsor*



**Digest edited by:**

*Luca Odetti, Vito Monaco, Benedetta Cesqui*

## FOREWORD

One major aspect of today's society is the significant increase in longevity and the progressive ageing of the population in all countries. By 2025, the over-60's population will have increased by 66% in Europe, and will constitute about 30% of the population. There will be a particular increase in the over-75's and over-85's, amounting to around 15% and 2.5%, respectively, of the total.

At the same time, the demand for self-sufficiency is increasing among senior citizens who, although their functions are in a way disabled "by exhaustion", choose to continue living in their own homes or in any case want to have a greater degree of independence. As a result, there will be an increase in the demand for social involvement, mobility, productivity, use of free time, personal care and attention, which the social and territorial infrastructures will have to make the necessary adjustments for.

Technology can provide important solutions to these issues and many groups are now working in this direction. In particular Gerontechnology - term born in Europe just prior to the 1990's as a composite of a two words: "gerontology", the scientific study of aging, and "technology" - is concerned with research on the biological, psychological, social, and medical aspects of ageing exploiting the potentials offered by the progress of technology.

The 6th Conference of the International Society for Gerontechnology - ISG08 - will be gathering gerontechnology specialists from around the world in Italy in 2008. The conference is staged about once every three years, and it is now back in Europe after nine years.

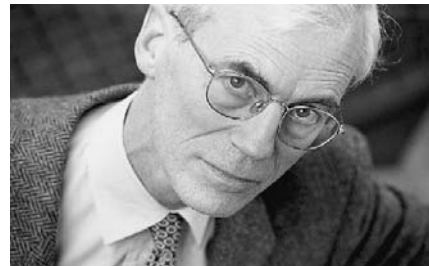
This time, the conference will be host in Pisa placed in Tuscany, an Italian region sensitive to issues related to increasing aging of population. Tuscany is a very attractive region for many European senior citizens to retire, due to a unique mix of cultural heritage and quality of life with an extraordinary wealth of artistic and cultural heritage, deep attention to preserving the environment and social relations, excellent climate, good food and a relaxed, friendly atmosphere.

ISG08 is intended to be a forum where all the people involved in activities on gerontechnology (robotics researchers, architects, biomedical engineers, neuroscientists, biologists, experts in political science and economics, and scientists from many other communities) will meet and interact, present results and discuss about future research lines. The conference theme is **SMART TECHNOLOGY FOR ACTIVE LONGEVITY**.

We hope to see you in Pisa working with us to make ISG08 a successful event!



Paolo Dario  
General and Program Chair



Herman Bouma  
Honorary General Chair



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Università di Genova  
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Scuola Superiore Sant'Anna, Pisa

# CONFERENCE INFORMATION

## CONFERENCE LOCATION

The Conference location is the "Palazzo dei Congressi" (address: Via Matteotti, 1 Pisa, phone: ++39.050.598212, fax: ++39.050.598019, web: [www.palacongressipisa.it](http://www.palacongressipisa.it)).

The "Palazzo dei Congressi" is close to the central area of Pisa and can be reached by walking from the railway station (15 minutes) and from most hotels.

## CONFERENCE REGISTRATION

The Conference registration desk is located at the Congress Centre entrance, on the ground floor, and will be open, according to the Conference schedule, in order to allow on site-registration and to provide to registered attendees their registration badge. Credit card payment of registration fees is welcome. Major credit cards are accepted.

Opening hours for registration are:

TUESDAY, 3<sup>th</sup> of June, from 15.30 to 17.00.

WEDNESDAY, 4<sup>th</sup> of June, from 7.30 to 9.00.

THURSDAY, 5<sup>th</sup> of June, from 7.30 to 9.00.

FRIDAY, 6<sup>th</sup> of June, from 7.30 to 9.00.

## TRANSPORTATIONS:

**BY AIR:** the "Galileo Galilei" International Airport is on the outskirts of the town, approximately **three kilometres** from the Palazzo dei Congressi. To reach the Palazzo dei Congressi, the easiest way is probably to take a taxi. Taxis are located near the "Arrivals" exit of the air terminal. For non-stop radio taxi service call +39 050 541600. Otherwise, you can take Bus No 1 , getting off at the 6th stop at the Railway Station, and then taking Bus No. 9 (direction Cisanello, getting off at the 2nd stop) or Bus No.14 (direction Viale delle Piagge, getting off at the 5th stop). Tickets must be bought at the station.

**BY TRAIN:** the "Pisa Centrale" Railway Station is approximately **two kilometres** far from the Palazzo dei Congressi.

**BY ROAD:** Pisa is near to the intersection of two highways: A12 north-south (Sestri Levante - Livorno) and A11 east-west (Pisa - Florence). Exit at "Pisa centro" and follow the signs towards the center of the town. The Palazzo dei Congressi is located in Lungarno Buozzi, the avenue costing the right side of the Arno river. Pay-and-display car park is available in front of the Palazzo dei Congressi.

**BUSES** circulate from 7a.m. to 11p.m. Please check the timetables shown at each bus stop. The 1 hour lasting ticket costs € 0,95 and it can be bought in newspaper kiosks or tobacco shops. Tickets issued on the bus will cost € 1.50. The main bus lines travelling around the town are:

- Line 21 Airport/Railway Station/Duomo/Porta a Lucca
- Line 11 Lungarno Pacinotti/Lungarno Mediceo
- Line 14 Railway Station/Piagge/Pisanova

**TAXIS** are easy to find in Pisa and fees are quite affordable (a typical urban journey costs about 10 ÷ 15 euros). Three taxi stations, providing phone booking service, are located at:

- Piazza dei Miracoli tel. +39 050 561878
- International Airport "Galileo Galilei" tel. +39 050 28542
- *Pisa Centrale* Railway Station tel. +39 050 41252

For non-stop radio taxi service call +39 050 541600.

# MAP OF PISA



## LEGENDA

- |  |                               |
|--|-------------------------------|
| 1. Palazzo dei Congressi di Pisa           | 7. Scuola Superiore Sant'Anna |
| 2. Railway Station "Pisa Centrale"         | 8. Hospital "Santa Chiara"    |
| 3. International Airport "Galileo Galilei" | 9. Piazza dei Miracoli        |
| 4. Comune di Pisa                          | 10. Museo di "San Matteo"     |
| 5. Università di Pisa (Rettorato)          | 11. Teatro "Verdi"            |
| 6. Scuola Normale Superiore                | 12. Stazione Leopolda         |

## **EXHIBITIONS**

Several exhibitions will take place at the Palazzo dei Congressi, on the ground floor, every day, from 9 a.m. to 7 p.m. Exhibitors will be from industry, research laboratories and international institutions.

## **E-MAIL AND COMPUTER FACILITIES**

Wireless and LAN access will be available at selected locations on the ground and 1<sup>st</sup> floors.

## **SOCIAL EVENTS**

A **Welcome Cocktail** will take place on Wednesday evening from 6.45 to 7.45 p.m. in the Congress Center.

The **Conference Banquet** will take place on Thursday evening at la Certosa di Calci. Buses will take the visitors to “Certosa di Calci” after visiting the labs of the Scuola Superiore Sant’Anna.

The **Farewell Party** will take place on Friday evening at the end of the conference in the “Chiostrò” of the San Francesco Church, close to the Palazzo dei Congressi.

# GUIDE TO THE TOWN OF PISA

## WHAT TO SEE IN TOWN

Since the beginning of tourism, Pisa has been known for just one thing: the Leaning Tower, which serves around the world as a shorthand image for Italy. It is indeed a freakishly beautiful building, a sight whose impact no amount of prior knowledge can blunt. Yet it is just a single component of Pisa's breathtaking Campo dei Miracoli, or Field of Miracles, where the Duomo, Baptistery and Camposanto complete a dazzling architectural ensemble. These, and a dozen or so churches and palazzi scattered about the historic centre, belong to Pisa's "Golden Age", from the eleventh to the thirteenth centuries, when the city was one of the maritime powers of the Mediterranean. The city's political zenith came late in the eleventh century with a series of victories over the Saracens: the Pisans brought back from Arab cultures long-forgotten ideas of science, architecture and philosophy. Decline set in with defeat by the Genoese in 1284, followed by the silting-up of Pisa's harbour. From 1406 the city was governed by Florence, whose Medici rulers re-established the University of Pisa, one of the intellectual forcing houses of the Renaissance; Galileo was one of the teachers there.

We hereby provide you 3 main itineraries which may help you in the discovery of our town, introducing the main highlights of the medieval jewel that is Pisa

### ITINERARY 1 PIAZZA DEL DUOMO

All historical cities in Italy have their Piazza del Duomo or Cathedral square, in recognition of the common Christian genesis of our civilisation; but the Piazza dei Miracoli represents, with its four buildings Piazza – the Duomo (Cathedral), the Battistero (San Giovanni Baptistery) the Campanile ( Bell Tower) and the Camposanto (Cemetery)- an unique example of the Romanesque style and maybe the most famous and worldwide known image of Italy.

The visit to Piazza del Duomo cannot but start from the **Cathedral**, founded in 1063 and dedicated to the Assumption of the Virgin Mary. The majestic structure and architectural harmony of the exterior façade, characterised by a series of a seven blind arches divided by columns, encloses the main door, sculpted by Bonanno Pisano in 1180. Through the portal you will accede to the basilical plan in form of a Latin cross with five aisles and one only apse. The Cathedral is decorated with numerous work of art, such as the Giovanni Pisano's pulpit, sculpted in an octagonal form between 1302 and 1311; the mosaic portrait of the Blessing Christ with the Virgin and St. John, located in the semi-dome of the apse; the image of the "Madonna beneath the organs" attributed to Berlinghiero Berlinghieri.

The foundation of Pisa's **Campanile** is established in 1173 and attributed to the work of Bonanno Pisano. When construction work had almost reached the top of the third order, land subsidence caused the risk for the tower to lean over. Work was suspended for almost a century, until 1275 when the architect of the Camposanto took up work again. He introduced original techniques to mitigate the inclination of the tower and completed construction until the seventh order. Then, at the end of the 14<sup>th</sup> Century a belfry allowed to avoid the cupola or cone- shaped roof.

During the centuries, the nature of the land which caused the first subsidence increased the inclination of the tower; in the last decades a scientific team has begun work of consolidation, securing the building for a number of centuries to come.

On the west side of the Piazza del Duomo stands the circular structure of **San Giovanni Baptistery**, whose construction started in 1152 and was completed fifty years after. Over the time, particularly during the 19<sup>th</sup> Century, parts of the external structure eroded by atmospheric agent, were replaced or removed; these are today kept in the Opera del Duomo.

The cupola is dominated by a bronze statue of S. John the Baptist, sculpted in 1393, while the entrance door on the east side facing the Cathedral is of particular interest with panels illustrating the months of the year and Christ, the Virgin, Angels and Apostles. But the real gem of the building is located inside: the Pulpit, sculpted by Nicola Pisano between 1259 and 1260: it consists in seven columns, three supported by lions and one by anthropomorphic figures, with on the top, five panels illustrating scenes from the life of Christ.

The visit to Piazza dei Miracoli ends in the **Monumental Cemetery** a porticoed rectangle, designed by Giovanni di Simone in 1272. It can be numbered among Pisa's museums although it was created for a different purpose.

The visit to the Piazza dei Miracoli will take approx. 1 hour ½.

### ITINERARY 2 THE LUNGARNI

This itinerary will take about 2hrs and starts from Piazza Garibaldi, ideally situated in the middle of the Arno River. Here starts, on the right side, the **Lungarno Pacinotti**, the place where the poet Giacomo Leopardi strolled in the

winter of 1827, grateful for the mild climate of the town, and where Giuseppe Garibaldi landed in 1862 after he was wounded in Aspromonte, during the reunification of Italy. This is also the place where English visitors stayed during the 19<sup>th</sup> Century to complete their education: the only hotel that survives of this season in the Victoria Hotel, founded in 1842. Along the promenade you will find the historical “Caffè dell’Ussero” one of the most antiques Italian cafés.

Continuing the Lungarno and passing near Piazza Carrara, with its Royal Palace, seat of the Fine Arts Superintendence which hosts the “Ceci Donation” and a rich collection of paintings ( open from Monday to Saturday, from 9 a.m. to 1 p.m., free entrance)you will cross the Solferino Bridge to enter the **Lungarno Simonelli**.

At a short distance you will be able to admire the Medici Arsenal, built in the late 16<sup>th</sup> Century, where the galleons of the Order of the Knight of Santo Stefano were prepared in order to be used against the pirates who infested the Mediterranean.

At a short distance from the Arsenal you find the new Fortress or Cittadella, designed to control the town and prevent the riotous inhabitants of Pisa who wanted to rebel against the Florentine conquest.

After crossing the modern Cittadella’s bridge, you enter the part of the town that lies on the southern bank of the river, the so called “Mezzogiorno”. After a short walk you will reach **Lungarno Sonnino** and the fascinating square of San Paolo A Ripa d’Arno, founded around year 1000.

Walking along the river, you will cross the bridge to reach **Lungarno Gambacorti** and its small jewel of the Church of Santa Maria della Spina: it owes its name to a thorn of the crown that was plunged into Jesus Christ’s body during the night of His Passion.

After leaving behind this late gothic church, continue along the Lungarno to admire the perfection of the river bend and the views of the palaces on the other bank.

At number 9 don’t miss one of the oldest churches in Pisa: Santa Cristina, established in 840, where Santa Caterina da Siena received in 1375 the sacred Stigmata while she was praying in front of the Crucifix.

Leaving the Church behind and continuing of the Lungarno, you will finally attend XX Settembre square with the famous Logge dei Banchi and the Palazzo Pretorio, seat of the municipal Administration.

The Ponte di Mezzo bridge will take you finally in Piazza Garibaldi, where starts Borgo Stretto, the most fashion road in downtown, plenty of shops and boutiques where you can meet the real Italian style.

### **ITINERARY 3 SQUARES AND CHURCHES**

Despite centuries of neglect and the aggression of atmospheric agent, the churches hosted in the numerous large and small squares of the town preserve their artistic beauty and witness the golden Age of the Ancient Maritime Republic.

This small itinerary, lasting one hour, starts from Piazza dei Cavalieri, considered one of the most beautiful squares of Italy. While Pisa was a Republic, it represented the political and administrative heart of the town: it was the location of the “Palazzo degli Anziani del Popolo” and of the “Torre del Muda”, quoted in Dante’s Divine Comedy.

On the northern side you can see the “Palazzo dei Cavalieri e della Carovana”, built between 1562 and 1564 by Giorgio Vasari and conceived to be the seat of the Order of the Knights of Santo Stefano. After the loss importance of the Order the Palace was transformed in 1810, by Napoleon, into the Scuola Normale Superiore, created to offer special courses in literature and sciences and that is still very active today.

On his left side, you can admire the palazzo dell’ Orologio, while on the right side stands the Church of the Knights of Santo Stefano, founded in 1565 by Cosimo I and designed both by Giorgio Vasari and Giovanni de Medici.

After leaving the church, turn to the right into via dei Consoli del Mare, then in the peculiar Via delle Sette Volte and in via Santa Apollonia to reach Largo del Parlascio. In the middle you can have a look at the most evident roman ruins still existing in Pisa, the Thermal Baths of Adriano ( usually called “Baths of Nero”), built in the 3<sup>rd</sup> Century AD.

Not far from the largo, on the right side of Via Santa Apollonia, you can reach Piazza Santa Caterina, facing the old Dominican Church dedicated to Santa Caterina d’Alessandria.

The Church is embodied in the oval Piazza Martiri della Libertà, surrounded by trees, that displays the statue of Grand Duke Pietro Leopoldo di Lorena. This square, with a some Parisian taste, hosts the 14<sup>th</sup> century monastery of the Clarisse, seat of the Scuola Superiore Sant’Anna.

# WHAT TO SEE IN THE OUTSKIRTS

## SAN PIERO A GRADO

A small village in the Municipality of Pisa, 8 km far from the town, reachable by car or by bus. It is famous for its beautiful Basilica, a sample of Romanic church which owes its name to an old legend according to which St. Peter, the Prince of Apostles, arrived in Italy in this location, in 44 AD.

The Church is close to a very busy thoroughfare that connects Pisa to the coastline, to the villages of Tirrenia and Marina di Pisa.

## TENUTA DI SAN ROSSORE

The park of San Rossore has preserved over the centuries unique characteristics and will give the opportunity to visitors to spend some hours enjoying the wilderness of Mediterranean nature in an area disseminated of maritime pines and century-old oaks. Belonged towards year 1000 to the Cathedral Pisa, was transformed in the game reserve of the Medici and, at the unification, of Italy was given to the Savoy family. When Italy became a republic in 1946 the park became property of the Presidents; this explains why it can be visited only during holidays or by appointment.

The park also hosts Escoli, considered one of the most beautiful riding track of the world.

*-The Park is open every Sunday from 8.30 to 5.30 p.m. Free entrance.*

## CERTOSA DI CALCI

At the mouth of Val Graziosa, near the village of Calci, stands the imposing Carthusian Monastery, established in 1366 and house of the Museum of Natural History. The museum was established in the last years of the 16<sup>th</sup> Century by Grand Duke Ferdinando I dei Medici and was one of the first ones created in Europe.

A special attention can be devoted to the collection of Cetaceans, with several full skeletons that fully render the shape of these giants of the sea.

The visit can also give the opportunity to admire some rare species of stuffed birds now extinct.

*-The museum is open from Tuesday to Saturday from 9 to 6.30 pm; on Sunday and holiday from 9 to 12.*

## LUCCA

The town of Lucca is 24 km far from Pisa ( 20 minutes by train).

Since early Roman times its historical areas are manifested in marvellous architectural splendours, inventions and modifications. Lucca is adorned with the severe romanic and the more sumptuous renaissance style, and completely surrounded by original medieval walls.

The pleasure that the town concedes is not only artistic, but welcomes visitors with old grocery and pastry shops located in Via Fillungo, offering the most exquisite local delicatessen, the typical trattorias and restaurant which witness the long tradition that the inhabitants have for the pleasure of the table, becoming an Italian form of culture that will never cease.

## WHERE TO STAY

Hotel Repubblica Marinara **** Via Matteucci 81, Pisa Tel 050 3870100	Hotel Touring **** Via Puccini 24, Pisa Tel 050.46374	Hotel Verdi *** Piazza Repubblica 5, Pisa Tel 050.598947
Hotel Della Spina *** Via Della Spina 5,7 Pisa Tel 050.502777	Hotel Minerva *** Piazza Toniolo 20, Pisa Tel 050.501081	Hotel Terminus & Plaza *** Via C. Colombo 45, Pisa Tel 050.500303
Hotel S. Croce Fossabanda *** Piazza S.Croce 5 Pisa Tel 050.970911	Hotel Leonardo *** Via Tavoleria 17, Pisa Tel 050.579946	Grand Hotel Duomo **** Via S. Maria 94, Pisa Tel 050.561894

## WHERE TO EAT

**Lunch.** The following options will be available:

- hot lunch served at the Conference site on the 1<sup>st</sup> floor at a cost of € 13,00 (tickets will available at the reception desk);
- sandwiches and beverages sold at the bar on the ground floor at a cost of € 3,00;
- nearby bars and fast-foods at walking distance from the Palazzo dei Congressi.

**Dinner.** Pisa offers a wide range of typical restaurants and pizzerias such as the following, all in down town area.

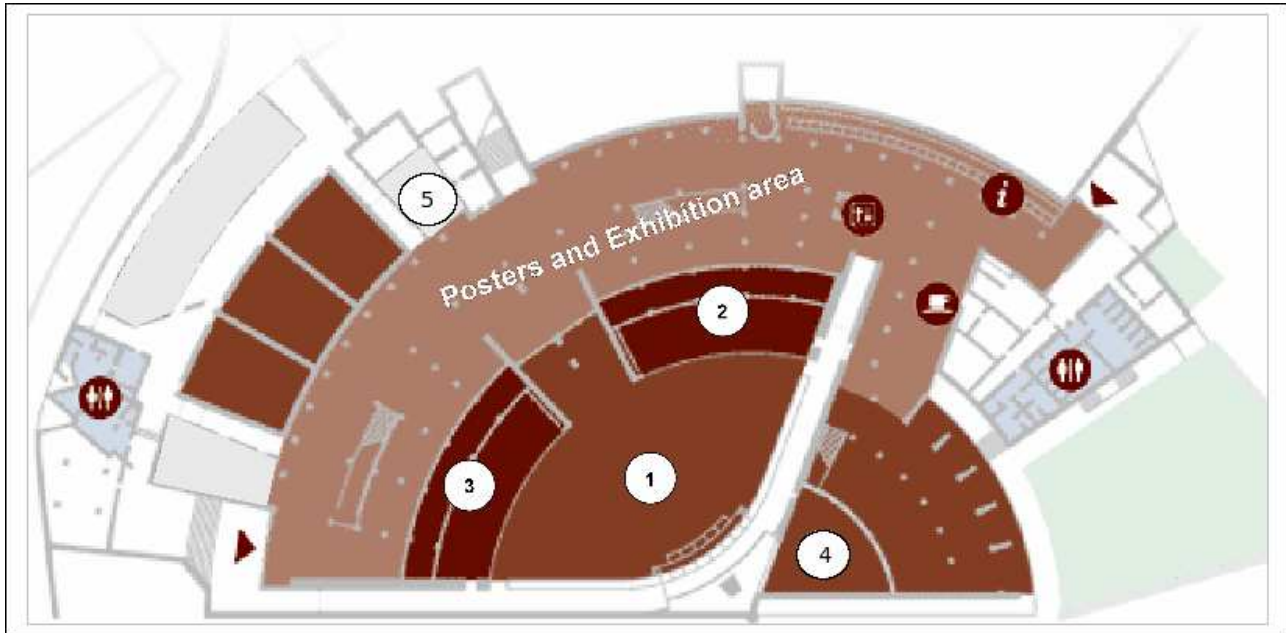
Da Bruno \$\$\$ Via Bianchi 12, Pisa Tel. 050.560818	Osteria La Mescita \$\$\$ Via Cavalca 2, Pisa Tel 050.544294	L'artilafò \$\$\$ Via San Martino 33, Pisa Tel 050.27010
Osteria dei Cavalieri \$\$\$ Via S.Frediano 16, Pisa Tel. 050.580858	Ristoro ai Vecchi Macelli \$\$\$ Via Voltorno 49, Pisa Tel.050.20424	Trattoria Il Campano \$\$ Via Cavalca 44, Pisa Tel 050. 580585
Osteria Porton Rosso \$\$ Via Portono Rosso11, Pisa Tel 050.580566	Osteria Di Culegna \$\$ Via Fucini 10, Pisa Tel 050.576426	Osteria Da Cucciolo \$\$ Vicolo Rosselmini 9, Pisa Tel 050.26086
Il Vecchio Dado \$\$ Lungarno Pacinotti 21, Pisa Tel 050.580900	Trattoria Santomobono \$ Piazza S. Omobono 6, Pisa Tel 050.540847	Numero 11 \$ Via San Martino 47, Pisa Tel 050.27282
Pizzeria Bella Napoli \$ Via Del Borghetto 44 Pisa Tel 050.578520	Pizzeria I Bagni Di Nerone \$ Largo del Parlascio 26, Pisa 050.551085	Pizzeria La Cereria \$ Via Gori 30, Pisa Tel 050.20336

\$\$\$=VERY EXPENSIVE    \$\$= NORMAL    \$=LOW PRICE

## SHOPPING

The main shopping area in Pisa is along *Corso Italia* and *Borgo Stretto*, where many elegant shops are located. Most shops open 9.00 am – 1 p.m. and 3.30 p.m. – 7.30 p.m., from Monday afternoon to Saturday evening.

# PISA CONGRESS CENTRE



<i>i</i>	Reception	
1	Auditorium	425
2	Pacinotti room	230
3	Fermi room	230
4	Galilei	60
5	Room A	50

First Day June 4, 2008		Second Day June 5, 2008		Third Day June 6, 2008	
07:30 – 09:00	Registration	07:30 – 09:00	Registration	07:30 – 09:00	Registration
09:00 – 09:30	Welcome Prof. Daino, Prof. Carozza, Prof. Bouma	09:00 – 09:45	Invited Lecture – Prof. Maria Chiara Carozza	09:00 – 09:45	Invited Lecture – Prof. Sang-Rok Oh
09:30 – 10:15	Invited Lecture – Dr. Etienne Burdet	09:45 – 11:00	Parallel Sessions	09:45 – 11:00	Parallel Sessions
10:15 – 10:45	Coffee Break	11:00 – 11:30	Coffee Break	11:00 – 11:30	Coffee Break
10:45 – 12:00	Parallel Sessions	11:30 – 12:45	Teaser and Poster Presentation	11:30 – 12:45	Parallel Sessions Workshops
12:00 – 13:30	Teaser and Poster Presentations	12:45 – 14:15	Lunch and Posters	12:45 – 14:15	Lunch
13:30 – 14:45	Lunch and Posters	14:15 – 15:00	Invited Lecture – Prof. Hermann Bouma	14:15 – 15:30	Parallel Sessions Workshops
14:45 – 15:30	Invited Lecture – Prof. Alain Berthoz	15:00 – 16:15	Parallel Sessions Workshops	15:30 – 16:00	Coffee Break
15:30 – 16:15	Coffee Break and Posters	16:15 – 16:45	Coffee Break and Posters	16:15 – 18:15	Social events (visit to the "Piazza dei Miracoli" and the Museum of the Roman ships)
16:15 – 17:30	Parallel Sessions SIGG – ISG Workshops	17:00 – 19:00	Visit to the Lab of Biorobotics at Scudla Superiore Sant'Anna		
17:30 – 18:45	ISG General Assembly	20:00 – 22:00	Banquet	19:00 – 20:30	Farewell Party
18:45 – 19:45	Welcome Cocktail				

# Plenary Lecture

DAY 1 – WENSDDAY, JUNE 4  
PALAZZO DEI CONGRESSI  
AUDITORIUM  
9.30 - 10.15

## ***Human Robotics: constructive modeling of motor control from muscles to behaviors***

Dr. Etienne Burdet

Imperial College London, UK



## BRIEF BIOGRAPHY

Etienne Burdet is Senior Lecturer at Imperial College London. He has obtained a M.S. In Mathematics in 1990, a M.S. in Physics in 1991, and a Ph.D. in Robotics in 1996, all from ETH-Zurich. Dr. Burdet is doing research at the interface of robotics and bioengineering, with contributions in various fields from human motor control to VR-based training systems for surgery and rehabilitation, to assistive devices and microrobotics for life sciences. His main interest is in human-machine interaction.

# Plenary Lecture

DAY 1 – WENSDAY, JUNE 4  
PALAZZO DEI CONGRESSI  
AUDITORIUM  
14.45 - 15.30

## ***Brain mechanisms for locomotion and spatial memory during navigation. A multidisciplinary approach***

Prof. Alain Berthoz

CNRS  
Collège de France, Paris, France



## BRIEF BIOGRAPHY

**Prof. Alain Berthoz** became Civil Engineer at École des Mines in 1963, Ph.D. in 1973. Researcher at Centre National de la Recherche Scientifique (CNRS) (1966-1981), he established and coordinates the Neurosensory Physiology Laboratory of CNRS (1981-1993).

Since 1993, he is professor at Collège de France and director of UMR CNRS/Collège de France "Physiology of perception and action". Over 200 scientific publications in international journals on physiology of sensory-motor functions and more specifically on the oculo-motor system, the vestibular system, balance control, and movement perception.

He is a member of the French Academy of Sciences and in 1999 he has been appointed Chevalier de la Legion d'Honneur. About 90 invited talks in conferences and research centres in over 20 countries, in addition to several plenary speeches.

# Plenary Lecture

DAY 2 – THURSDAY, JUNE 5  
PALAZZO DEI CONGRESSI  
AUDITORIUM  
9.00 - 9.45

## *On the development of neuro-robots for rehabilitation and personal assistance*

Prof. Maria Chiara Carrozza

Scuola Superiore Sant'Anna  
Pisa, Italy



## BRIEF BIOGRAPHY

**Prof. Maria Chiara Carrozza** is Full Professor of Biomedical Robotics and Director of the Scuola Superiore Sant'Anna. She teaches Biomechatronics and Rehabilitation Engineering to Master students of Biomedical Engineering at the University of Pisa. Prof. Carrozza has been visiting professor at the Technical University of Wien, Austria with a graduate course entitled Biomechatronics, and she is involved in the scientific management of the Italy-Japan joint laboratory for Humanoid Robotics ROBOCASA, Waseda University, Tokyo, Japan where she is responsible for artificial hand design. She is active in several national and international projects in the fields of biomechatronics and biomedical robotics. Her research interests comprise biomedical robotics (cybernetic and robotic artificial hands, upper limb exoskeletons), rehabilitation engineering (neurorehabilitation, domotic, and robotic aids for functional support and personal assistance), and biomedical microengineering (microsensors, tactile sensors). The Arts Lab team coordinated by Prof. Carrozza has designed and developed the CYBERHAND artificial hand (<http://www.cyberhand.org>) and is currently responsible for the design of an Exoskeleton for functional support and enhancement of the upper limb, in the framework of the NEUROBOTICS project (<http://www.neurobotics.org>).

# Plenary Lecture

DAY 2 – THURSDAY, JUNE 5  
PALAZZO DEI CONGRESSI  
AUDITORIUM  
14.15 - 15.00

## ***Gerontechnology: Technology for a purpose***

Prof. Hermann Bouma

President of the International Society for Gerontechnology, NL



## BRIEF BIOGRAPHY

Herman Bouma (1934) studied physics at Utrecht University and got his PhD from the Technische Universiteit Eindhoven. His research addressed basic and applied aspects of visual processes, such as reading, and later gerontechnology. He chaired the scientific council of the first international gerontechnology congress in Eindhoven, 1991. Since 2002 he is President of the International Society for Gerontechnology. He is a fellow of the Royal Netherlands Academy of Arts and Sciences.

# Plenary Lecture

DAY 3 – FRIDAY, JUNE 6  
PALAZZO DEI CONGRESSI  
AUDITORIUM  
14.15-15.00

## ***Fusion of Information Technology and Robot Technology for Quality of Life***

Dr. Sang-Rok Oh

Center for Cognitive Robotics Research  
Korea Institute of Science and Technology (KIST)



### BRIEF BIOGRAPHY

#### EDUCATION:

1976-1980	B.S in Electronics Engineering, Seoul National University, Seoul, Korea	
1980-1982	M.S in Electronic and Electrical Engineering, Korea Advanced Institute of and Technology(KAIST), Seoul, Korea	Science
1982-1987	Ph.D. in Electronic and Electrical Engineering, KAIST, Seoul, Korea	

#### EXPERIENCES:

1987. 3-1988. 1:	Post Doctoral at System Controls Lab, KAIST	
1988. 3-1988. 6:	Visiting Professor, Dept. of EE, KAIST	
1988. 1-1995. 2:	Senior Research Scientist, Control Systems Lab., Korea Institute of Science Technology (KIST)	
1991. 10-1992. 10:	Visiting Research Staff at IBM T. J. Watson Research Center, Yorktown U. S. A.	Height, NY,
1995. 12-1996. 2:	Visiting Research Staff at Bio-robotics Lab., MEL, JAPAN	
1999. 9–2003. 8:	Head, Bio-mimetic System National Research Laboratory, KIST	
2000. 3–2003. 4:	Director, Intelligent System Control Research Center, KIST	
1995. 2- present:	Principal Research Scientist, Cognitive Robotics Research Center, KIST	
2003. 9– present:	Project Manager of Intelligent Service Robot, IT Policy Advisory Group, Information and Communication, Republic of Korea	Ministry of
2006. 12-present:	IT Policy Adviser to Minister, Ministry of Information and Communication, Korea	Republic of

## Day 1: Wednesday, June 4

07:30 – 09:00	<b>REGISTRATION</b>	Ground Floor
09:00 – 09:30	<b>Welcome – Prof. Dario, Prof. Carrozza, Prof. Bouma</b>	Auditorium
09:30 – 10:15	<b>Invited lecture – Dr. Etienne Burdet</b>	Auditorium
10:15 – 10:45	<b>Coffee Break</b>	Ground Floor
10:45 – 12:00	<b>Parallel sessions</b>	
	<b>Workshop on “Concepts and significance of gerontechnology: past, present, future”</b> Chairs: <i>H. Bouma, J.E.M.H. van Bronswijk</i> 180 – Concepts and significance of gerontechnology: past, present, future. <i>H. Bouma, V. Taipale, J.L. Fozard, D.G. Bouwhuis, J.E.M.H. van Bronswijk</i> 142 – Communication technology changes how we age. <i>J. Fozard, W. Kearns</i> 159 – Gerontechnology’s basics. <i>J.E.M.H. van Bronswijk, D.G. Bouwhuis, J.L. Fozard, H. Bouma</i> 156 – User perspective and the development of gerontechnology. <i>V. Taipale</i> 165 – Paradigm lost: the social perspective in gerontechnology. <i>R. Pieper</i> 187 – Technology acceptance models in gerontechnology. <i>D.G. Bouwhuis, L. Meesters, J. Berentsen</i>	GTECH Auditorium
	<b>Biorobotics for longevity – 1</b> Chairs: <i>M. Hedberg, L. Giusti</i> 23 – A new tool for selecting appropriate home care devices for elderly persons suffering from dementia. <i>T. Kangastupa, M. Hedberg, K. Mäkelä</i> 57 – The influence of perceived adaptiveness of a social agent on acceptance by elderly users. <i>M. Heerink, B. Kröse, V. Evers, B. Wielinga</i> 90 – Robots as social mediators: a study “in the wild”. <i>L. Giusti, P. Marti</i> 94 – Trial of robot assisted rehabilitation using robotic pet. <i>M. Naganuma, T. Tetsui, E. Ohkubo, R. Kimura, N. Kato, S. Sato</i>	BRL1 Pacinotti room
	<b>Gerontology – 1</b> Chairs: <i>G. Lesnoff-Caravaglia, J. Behan</i> 2 – Enhancing activity levels for older adults. <i>G. Lesnoff-Caravaglia</i> 6 – Unattended autonomous surveillance in community-dwelling older adults: a field study. <i>J. Van Hoof, H.S.M. Kort</i> 24 – Determining the relationship between sleep and social activity in community dwelling older people. <i>J. Behan, D. Prendergast, B. Quigley, L. Walsh</i> 31 – Eye movements of elderly people while riding bicycles. <i>D. Igari, M. Shimizu, R. Fukuda</i>	GER1 Fermi room
	<b>Telemonitoring and telecare – 1</b> Chairs: <i>M. Gövercin, K. Nakajima</i> 12 – Caalyx: evidence-based selection of health sensors for elderly telemonitoring. <i>A. Rodríguez-Moliner, A. Catalá, M. Díaz, J. Rodríguez, E. Fernández de la Puente, A. Tabuenca, J. J. De la Cruz, L. Narvaiza, A. Yuste</i> 35 – Data fusion in health smart home: preliminary individual evaluation of two families of sensors. <i>A. Fleury, M. Vacher, H. Glasson, N. Noury, J-F. Serignat</i> 47 – Visual fall detection system in home environments. <i>M. Gövercin, J. Spehr, S. Winkelbach, E. Steinhagen-Thiessen, F.M. Wahl</i> 54 – Television-operating-state telemonitoring system in caring for elderly people living alone. <i>K. Nakajima, H. Matsui, T. Motoya, K. Sasaki</i> 60 – Autonomous system for movement monitoring. <i>M. Torrent, C. Angulo, C. Raya</i>	TM&TC1 Galilei room
	<b>Biomechanics of ageing – 1</b> Chairs: <i>L. Quagliarella, H. Takada</i> 22 – Mechanical characterisation of soft connective tissues with aging. <i>A. Natali, P.G. Pavan, E. Carniel, P. Dario</i> 116 – Effects of galvanic vestibular stimulation on statokinesigrams of the elderly 2. <i>H. Takada, M. Takada, M. Miyao, K. Tanaka, T. Shiozawa</i> 139 – Postural balance in hip and knee joint arthroplasty patients. <i>L. Quagliarella, N. Sasanelli, V. Monaco</i> 141 – Aging and myocontrol: impact on assistive technology. <i>E.J. Fimbel</i>	BMECH Room “A”

12:00 – 13:30	<b>Poster session #1 – Teasers, poster presentations</b> <b>Inclusive design and usability</b> 19 – An ergonomic approach to computer vision interaction. <i>P. Ponsa, C. Manresa-Yee, M. Diaz, C. Angulo</i> 29 – Iso standards for accessible design – development of common basic standards -. <i>K. Sagawa, K. Kurakata</i> 44 – A review of product usability index 2004 for rapidly ageing society. <i>H. Ogi</i> 68 – The homepage design for the elderly people. <i>K. H-S. Wang, B-S. Harn</i> 95 – Designing a familiar technology for elderly people. <i>C. Leonardi, C. Mennecozzi, E. Not, F. Pianesi, M. Zancanaro</i> 135 – Washer-dryer for every person: ergonomics and biomechanical interventions. <i>S. Ishihara, Y. Fujiwara, K. Ishihara</i> 137 – Usability improvement of the automatic washing-drying machine. <i>K. Ishihara, R. Nakagawa, S. Ishihara, Y. Fujiwara, H. Sako, M. Naitoh</i> 151 – Active involvement of older users in the design process of smart home technology.. <i>I. Bierhoff, P. Panis</i>  <b>Biorobotics for longevity</b> 21 – Using persona descriptions as a communication tool in interdisciplinary system design. <i>S.H. Budde, F. Stulp, D.L. Sancho-Pradel</i> 33 – Prototype development and evaluation for the pressure-relieving system of the regular wheelchairs. <i>C. Pei, J. Wang, P. Tuan, P. Lin, C. Lin, W. Chi</i> 53 – Robotic system for gait rehabilitation of stroke patients in the acute phase. <i>V. Monaco, J. Jung, G. Marci, S. Bagnato, S. Micera</i> 97 – Development of oral-rehabilitation robot. <i>H. Koga, Y. Usuda, M. Matsuno, Y. Ogura, H. Ishii, J. Solis, A. Takanishi, A. Katsumata</i> 155 – The omni-directional wheelchair for the elderly. <i>H-T. Fan, T-L. Lee, C-H. Chien, T-S. Ho</i> 163 – Digitus: towards a platform for the characterization of the finger biomechanics in fine manipulation. <i>N. Vitiello, C.M. Oddo, S. Roccella, S. Micera, M.C. Carrozza</i> 169 – Neuroexos elbow module: a novel exoskeleton for elbow rehabilitation. <i>E. Cattin, S. Roccella, N. Vitiello, F. Vecchi, M.C. Carrozza</i> 170 – Design of the new version of the mechatronic system for motor recovery after stroke (memos). <i>F. Giovacchini, S. Micera, M.C. Carrozza, P. Dario</i> 178 – Design of a planar robotic machine for tele-rehabilitation of elderly patients. <i>D. Accoto, L. Zollo, D. Formica, E. Guglielmelli</i>  <b>Cognitive ageing and games</b> 58 – Technological assistance tool for elderly's autonomy enhancing and care-givers support based on the use of portable devices and web. <i>C. Rodríguez de Pablo, M. Loichate, N. Oses, M. F. González, C. Buiza, J. J. Yanguas</i> 62 – Social and physiological influences of living with seal robots in an elderly care house for two months. <i>K. Wada, T. Shibata</i> 181 – Brain training softwares: is their efficacy real and influenced by age? A preliminary report.. <i>G. Cavallo, M. Tombini, G. Di Pino, G. Curcio, P.M. Rossini, E. Guglielmelli</i> 182 – Eldergames: videogames for empowering, training and monitoring elderly cognitive capabilities. <i>M. Fabregat, L. Gamberini, A. Spagnolli, L. Prontu, B. Seraglia</i> 183 – Design and development of a mixed reality solution for gerontechnology application. <i>M.L. Alcañiz Raya, J.A. Gómez, L. Gamberini, M. Martinelli, L. Prontu, B. Seraglia, D. Varotto</i>  <b>Engineering of living environments</b> 13 – Privacy and mobility in aging-in-place. <i>J. Knies, J.E.M.H. van Bronswijk</i> 17 – Towards an economically acceptable prevention of legionnaire's disease. <i>F. Franchimon, R.C.G.M. Loonen, J.E.M.H. van Bronswijk</i> 120 – Managing quality of design for an ageing -in -time project. <i>A.A.M. van Vliet, T. Borghs</i> 152 – Aging-in-place with "at ease". <i>D. Mahoney, E. Mahoney.</i>	POSTER1 Ground Floor
13:30 – 14:45	<b>Lunch</b> <b>Poster session # 1 (cont.)</b>	Ground Floor
14:45 – 15:30	<b>Invited lecture – Prof. Alain Berthoz</b>	Auditorium
15:30 – 16:15	<b>Coffee Break and Posters</b>	Ground Floor

16:15 – 17:30	<b>Parallel sessions and workshops</b>	
	<p><b>Joint workshop on “Future clinical perspectives of Gerontechnology”</b></p> <p>organized by the Italian Society of Geriatrics and Gerontologists (SIGG) and the ISG</p> <p>The aim of the workshop is to facilitate the discussion between geriatricians and technologists in order to develop more effective and usable systems to increase the quality of life of elderly people</p> <ul style="list-style-type: none"> <li>- Introduction to Gerontechnology. <i>H. Bouma</i></li> <li>- Comorbidity, fragility, and disability in elderly patients. <i>R. Bernabei</i></li> <li>- Technologies for cognitive disabilities. <i>L. Odetti</i>.</li> <li>- Occupational therapy and autonomy in elderly patients. <i>F. Landi</i></li> <li>- Technologies for motor function restoration. <i>S. Mazzoleni, Scuola Superiore Sant’Anna</i></li> <li>- Disability in older persons with dementia. <i>P. Mecocci</i>.</li> </ul>	WS SIGG-ISG Auditorium
	<p><b>Workshop on “Financial solutions for an ageing society”</b></p> <p>organized by G. Turchetti, Scuola Superiore Sant’Anna</p> <ul style="list-style-type: none"> <li>- Economic sustainability and alternative funding sources of LTC. <i>L. Beltrametti</i></li> <li>- Technology and insurance: towards innovative products combinations. <i>G. Turchetti</i></li> <li>- The approach of Assicurazioni Generali to LTC: strategies and product innovation. <i>A. Busetto</i>.</li> <li>- Questions and Answers</li> </ul>	WS FINAGE Pacinotti room
	<p><b>ICT for the ageing society – 1</b></p> <p>Chairs: <i>T. Tamura, N. Charness</i></p> <p>88 – Home healthcare network in the elderly. <i>T. Tamura, I. Mizukura</i></p> <p>9 – worth in the motivation of aging citizens to purchase a technical product or service. <i>J. Leikas</i></p> <p>14 – Identifying age differences in technology usage. <i>M. O’Brien, K. Olson, N. Charness, S. Czaja, D. Fisk, W. Rogers, J. Sharit</i></p> <p>76 – Computer and internet use in the usa: influence of age, attitude, employment status, and education. <i>N. Charness</i></p> <p>96 – Supporting older adults social network: the design of e-inclusion communication services. <i>C. Leonardi, C. Mennecozi, E. Not, F. Pianesi, M. Zancanaro</i></p>	ICT1 Fermi room
	<p><b>Inclusive design and usability – 1</b></p> <p>Chairs: <i>M. Colombo, K. Sagawa</i></p> <p>20 – Safety and comfort during transfers by lifts. <i>M. Colombo, A. Summa, C. Miramonti, M. Malnati, A. Mercanti, R. Boccardi, S. Pozzato, M. Guerreri</i></p> <p>28 – Useful field of view for older people. <i>N. Itoh, K. Sagawa, Y. Fukunaga</i></p> <p>48 – Getting older people involved in the process of ambient assisted living research and development. <i>C. Leonardi, C. Mennecozi, E. Not, F. Pianesi, M. Zancanaro</i></p> <p>50 – Usability of a sensor based home stroke rehabilitation system for the upper limb. <i>M. Gövercin, R. Willmann, T. Kraft, G. Lanfermann, E. Steinhagen-Thiessen</i></p>	IDU1 Galilei room
	<p><b>Gait and ageing – 1</b></p> <p>Chairs: <i>A. Sant’Anna, H. Zabaleta</i></p> <p>39 – Gait unsteadiness analysis from motion primitives. <i>A. Sant’Anna, W. Ourique de Morais, N. Wickström</i></p> <p>61 – Gait analysis in frequency domain for freezing detection in patients with parkinson’s disease. <i>H. Zabaleta, T. Keller, J.F.M. Massó</i></p> <p>114 – Fall detection and gait analysis in a smart-home environment. <i>V. Bianchi, F. Grossi, G. Matrella, I. De Munari, P. Ciampolini</i>.</p> <p>140 – A fall and loss of consciousness wearable detector. <i>L. Quagliarella, N. Sasanelli, G. Belgiovine</i></p>	GAIT Room “A”
17:30 – 18:45	<b>ISG General Assembly</b>	Auditorium
18:45 – 19:45	<b>Welcome Cocktail</b>	1st Floor

## Day 2: Thursday, June 5

07:30 – 09:00	<b>REGISTRATION</b>	Ground Floor
09:00 – 9:45	<b>Invited lecture – Prof. Maria Chiara Carrozza</b>	Auditorium
9:45 – 11:00	<b>Parallel sessions 05_1</b>	
	<b>Assistive Technologies for supporting the elders: a XXI century approach (invited session)</b> Chairs: <i>U. Cortés, F. Campana</i> 143 – K4care: a new intelligent system for home care. <i>D. Riaño, F. Campana, R. Annicchiarico, S. Ercolani, A. Federici, P. Mecocci</i> 144 – A new collaborative-shared control strategy for continuous elder/robot assisted navigation. <i>C. Urdiales, J. Peula, C. Barrué, E. Pérez, I. Sánchez-Tato, J.C. del Toro, U. Cortés, F. Sandoval, R. Annicchiarico, C. Caltagirone</i> 145 – A share-it service to elders' mobility using the i-walker. <i>U. Cortés, A. Martínez-Velasco, C. Barrué, T. Benedico, F. Campana, J. Fernandez, R. Annicchiarico</i> 164 – The teleassistance platform: an innovative technological solution to face the ageing population problem. <i>E. Cruz-Martín, L. Del Árbol-Pérez, L.C. Fernández-González</i>	ATXXI Auditorium
	<b>Joint WASEDA/SSSA Workshop on BioRobotics (invited session) – 1</b> Chairs: 149 – Characterization of flow dynamics in intracranial cerebral aneurysm using in vitro modeling techniques. <i>T. Yagi, Y. Qian, M. Hukushima, A. Kamoda, A. Sato, K. Iwasaki, M. Umezumi, H. Takao, Y. Murayama</i> 130 – Rehabilitation robotics: on the development of a new emg-based control for post-stroke rehabilitation. <i>B. Cesqui, H.I. Krebs, S. Micera</i> 59 – Design and evaluation of an amplified walking system for elderly people. <i>T. Ando, M. Nihei, M.G. Fujie</i> 160 – An innovative robot-mediated therapy for the upper limb of elderly chronic hemiparetic subjects. <i>S. Mazzoleni, S. Aliboni, G. Pierini, G. Rossi, B. Cesqui, F. Posteraro, M.C. Carrozza, S. Micera, P. Dario</i> 184 – Novel polymeric nanosheets for gerontic applications. <i>S. Takeoka, T. Fujie, Y. Okamura</i>	WASEDA1 Pacinotti room
	<b>Engineering of living environments – 1</b> Chairs: <i>H.S.M. Kort, J.E.M.H. van Bronswijk</i> 1 – Home living environment design and perceptions of safety of older Malaysians. <i>R.M. Yusuff, S.N. Syed Abdul Rashid, T. Aizan Hamid, M.R. Hussain</i> 4 – Smart technology at home: a multidisciplinary challenge. <i>H.S.M. Kort, J. Van Hoof</i> 15 – A systemic approach applied to the design of a strolling corridor for elderly persons with Alzheimer's-type dementia. <i>B. Tondu, N. Bardou</i> 16 – Realizing end-user values of housing for older adults. <i>J.E.M.H. van Bronswijk, F. Franchimon, J. Knies, C.E.E. Pernot, G.J. Maas</i> 27 – Electronic environments – support or burden for the elderly?. <i>E. Fugger, B. Prazak, A. Hochgatterer</i>	ELE1 Fermi room
	<b>Inclusive design and usability – 2</b> Chairs: <i>L. Normie, A. Sixsmith</i> 69 – Usability analysis of home electronic appliances based on eye tracking and physiological data. <i>R. Fukuda</i> 83 – An analysis of information seeking behavior on the web in novice older adults. <i>N. Sato, N. Nakamichi, M. Sakai, H. Uwano</i> 93 – Multicriteria design optimisation of accessible products for the ageing population. <i>L. Normie</i> 106 – User requirements for ambient assisted living: results of the soprano project. <i>S. Müller, A. Sixsmith</i>	IDU2 Galilei room
	<b>Gerontology – 2</b> Chairs: <i>G. Fernie, L. Lorenzen-Huber</i> 171 – Technology to reduce institutional cross-infection rates by improving the hand hygiene of caregivers. <i>G. Fernie, A. Levchenko, G. Hufton</i> 104 – Shaping the next generation of gerontechnologists: multidisciplinary gerontology vs. Computer science. <i>L. Lorenzen-Huber, K. Connelly</i> 123 – Bridging the digital divide: the impact of computer training, internet, and email use on levels of cognition, depression, and social functioning in older adults. <i>B. Hage</i>	GER2 Room "A"
11:00 – 11:30	<b>Coffee Break</b>	Ground Floor

11:30 – 12:45	<b>Poster session #2 – Teasers, poster presentations</b>	POSTER2 Ground Floor
	<p><b>ICT for the ageing society</b></p> <p>63 – Zigbee communication when building a body sensor network. <i>J. Parera, C. Angulo, J. Cabestany</i></p> <p>128 – The development of ict based services for ageing people needs co-operation. <i>T. Petäkoski-Hult, J. Merilähti, M. Ermes, M. Van Gils.</i></p> <p>129 – Effective use of smart home technology to increase well-being. <i>A. Sponselee, B. Schouten, D.G. Bouwhuis, P.G.S. Rutten</i></p> <p>134 – Close to you: unobtrusive awareness communication to bring family living far apart closer. <i>J. Yashikida, H. Umemuro</i></p> <p>158 – Towards an informed development practice of ehealth services for the ageing society. <i>H. Hyppönen</i></p> <p><b>Telemonitoring and telecare</b></p> <p>8 – Effects of partial immersion bath on the physiological parameters of elderly men. <i>K. Rhee, W. W. Jeong, K. J. Chun</i></p> <p>41 – Zigbee-based wireless homecare system implementation. <i>C. Lin, P. Tuan, C. Pei.</i></p> <p>45 – The on-line falling self-protection system design. <i>P-C. Tuan, C. Pei, C. S. Lin</i></p> <p>52 – A data mining system for chronic diseases surveillance for primary care unit in taiwan. <i>H-M. Hua, T-R. Lee</i></p> <p>65 – Accelerometer signals analysis using svm and decision tree in daily activity identification. <i>J. Parera, C. Angulo</i></p> <p>92 – Short message service (sms) as a practical tool for monitoring of home-care therapeutic/rehabilitative programs in elderly. <i>G. Calcagnini, M. Triventi, E. Mattei, F. Censi, D. Giansanti, G. Maccioni, P. Bartolini, V. Macellari</i></p> <p>136 – Ambient-assisted living and in-home activity monitoring. <i>G. Virone, A. Sixsmith.</i></p> <p><b>Technology usage</b></p> <p>7 – Access and utilization of computers and the internet among older malaysians. <i>S. Syed Abdul Rashid, S. T. Chai, M. Hussain</i></p> <p>26 – Computer anxiety and attitudes towards the internet among older malaysians. <i>M.R. Hussain, S.T. Chai, S.N. Syed Abdul Rashid</i></p> <p>113 – A multidisciplinary view to motivational aspects in gerontechnology. <i>C. Oppenauer, I. Kryspin-Exner</i></p> <p><b>Gait and ageing</b></p> <p>32 – Gait and posture analysis in elderly people using wireless inertial sensor. <i>D.E. Pardo, A. Rodriguez-Molinero, C. Angulo</i></p> <p>46 – A wearable accelerometer based platform to encourage physical activity for the elderly. <i>W.O. de Moraes, A. Sant'Anna, N. Wickström</i></p> <p>72 – Evaluation of new concept for balance and gait analysis: patients with neurological disease, elderly people and young people. <i>J. Merilähti, T. Petäkoski-Hult, M. Ermes, M. Van Gils, H. Lahti, A. Ylinen, L. Autio, E. Hyvärinen, J. Hyttinen,</i></p> <p>124 – Automatic measurement of elderly people's spatial gait parameters using computer vision. <i>X. Parra-Llanas</i></p> <p><b>Biomechanics of ageing</b></p> <p>55 – Features of the emg patterns during walking in young end elderly people: preliminary study. <i>V. Monaco, A. Ghionzoli, P. Dario, S. Micera</i></p> <p>70 – Evaluation of adaptation to perturbed environments in elderly subjects: the inhibitory process in motor control. <i>B. Cesqui, G. Macri, S. Micera, P. Dario.</i></p> <p><b>Gerontology</b></p> <p>67 – A methodology for gerontechnology consulting as a response to gerontologists' request. <i>M. Schaff, V. Rialle, A. Poulain, M. Carré</i></p> <p>81 – Designing e-health systems for chronic disease management for elderly. <i>N. Bitterman</i></p> <p>99 – Proposal of novel experimental methodology for studies on alzheimer's disease using rat and small mobile robot. <i>H. Ishii, A. Komura, Y. Masuda, S. Miyagishima, A. Takanishi, N. Iida, H. Kimura</i></p> <p>102 – Determination of effective evaluation parameters on the airway training system wka-1r. <i>Y. Noh, H. Ishii, J. Solis, K. Hatake, A. Takanishi</i></p> <p>118 – Volunteering: impacts on the psychological well-being of chinese older persons. <i>S.S.Y. Chan</i></p>	
12:45 – 14:15	<b>Lunch</b> <b>Poster session # 2 (cont.)</b>	Ground Floor
14:15 – 15:00	<b>Invited lecture – Prof. Herman Bouma</b>	Auditorium

15:00 – 16:15	<b>Parallel sessions and workshops 05_2</b>	
	<b>Rehabilitation robotics (invited session)</b> Chairs: J. L. Pons, H. I. Krebs 49 – The smart walkers as geriatric assistive device. The symbiosis purpose. <i>A. Frizzera, R. Ceres, J.L. Pons, A. Abellanas, R. Raya</i> 51 – Feasibility in human machine interfaces for elderly people. <i>R. Raya, D. Torricelli, E. Rocon, R. Ceres, A. Frizzera, J. L. Pons</i> 66 – Design of a controllable wheelchair ergometer for simulation of real life conditions. <i>J. Moreno, S. Güimil, J. González-Quijano, J. Sánchez, J. Pons, Á. Gil</i> 74 – Rehabilitation robotics: how old is too old?. <i>H.I. Krebs, B. Volpe, N. Hogan</i> 126 – Eye-reach: a multimodal interface based on user intention prediction. <i>D. Torricelli, I. Bernabucci, M. Goffredo, T. D'Alessio</i> 177 – Current progress on pathological tremor modeling and active compensation using functional electrical stimulation. <i>F. Widjaja, C.Y. Shee, D. Zhang, W.T. Ang, P. Poignet</i>	REHAROB Auditorium
	<b>Workshop: “Health oriented services in ambient assisted living: new opportunities for older Europeans”</b> organized by L. Chiari, University of Bologna Chair: Lorenzo Chiari - Ambient technology to support older people at home; <i>Pietro Siciliano (Institute for Microelectronics and Microsystems IMM-CNR, Lecce) - scientific coordinator of the NET-CARITY project</i> - OLDES: a “next generation” home technology for independent, in health, and active elderly; <i>Giovanni Rinaldi (CUP2000 spa, Bologna) - partner of the OLDES project</i> - Mixing sensing and action to support independent mobility in daily life activities; <i>Lorenzo Chiari (DEIS - Università di Bologna) - scientific coordinator of the SENSATION-AAL project</i> - Counteracting falls in old age: the SMILING project; <i>Fiorella Marcellini (Social Gerontology Unit, INRCA, Ancona) - scientific coordinator of the SMILING project</i> Discussion	WS AALinEU Pacinotti room
	<b>Cognitive ageing and games – 1</b> Chairs: <i>J. Leikas, D. Struve</i> 3 – Aging citizens’ experiences of electronic brain games. <i>J. Leikas, P. Lampila</i> 84 – Process-oriented versus product-oriented worked examples for training older adults to use interactive systems. <i>D. Struve</i> 110 – Assessment of executive functioning using virtual reality: virtual environment grocery store. <i>T. Parsons, A. Rizzo, J. Brennan, T. Siloa, E. Zelinski</i> 37 – “de klessebessers”: a leisure game for dementia. <i>H. Van Rijn, J. Van Hoof, P. J. Stappers</i>	CAG1 Fermi room
	<b>Telemonitoring and telecare – 2</b> Chairs: <i>D. Anderson, M. Laila</i> 77 – Evaluation of a video based fall recognition system for elders using voxel space. <i>D. Anderson, R. Luke, M. Skubic, J.M. Keller, M. Rantz, M. Aud</i> 79 – International study & promotion of osteoporosis prevention with finnish bone exercise monitor in sendai city, japan. <i>A. Sakai, S. Salo</i> 86 – Study on indoor activity monitoring by using electric field sensor. <i>S. Tsukamoto, H. Hoshino, T. Tamura</i> 87 – Utility and feasibility of an electronic tracking system for prevention of wandering in demented elderly patients. <i>M. Laila, V. Rialle, C. Secheresse, O. Magnillat, C. Brissonneau, F. Alain</i> 192 – <a href="#">Senior.comfort@home</a> the most ambitious Technology Welfare’s project ever launched in Europe. <i>R. Ongaro.</i>	TM&TC2 Galilei room
	<b>Gerontechnology in African Countries (invited session)</b> Chairs: <i>C. Mba, S. Nair</i> 173 – Older women in accra, ghana: assessing their general health condition. <i>C. Mba, L. Yarney.</i> 174 – Knowledge and attitude of older nigerians towards computers. <i>U. Okoye</i> 176 – Population aging in botswana : trends and prospects. <i>S. Nair.</i>	AFR Room “A”
16:15 – 16:45	<b>Coffee break, Poster session # 2 (cont.)</b>	Ground Floor
17:00 – 19:00	<b>Visit to the Research Laboratory of Biorobotics at the Scuola Superiore Sant’Anna</b>	
20:00 – 22:00	<b>Banquet</b>	

## Day 3: Friday, June 6

07:30 – 09:00	<b>REGISTRATION</b>	Ground Floor
09:00 – 9:45	<b>Invited lecture – Prof. Sang-Rok Oh</b>	Auditorium
9:45 – 11:00	<b>Parallel sessions and workshops 06_1</b>	
	<b>Engineering of living environments - 2</b> Chairs: . J.J.N. Lichtenberg, E. Karol 38 - Floor heating, cold water system, and resulting legionella disease risks for older persons. <i>F.J. van Hout, F. Franchimon, J.E.M.H. van Bronswijk.</i> 162 - The relevance of mobility, socializing and privacy for aging-in-place. <i>J. Knies, J.E.M.H. van Bronswijk</i> 167 - Product development for adaptive elderly housing. <i>J.J.N. Lichtenberg</i> 190 - Corte roncati: an example of innovation in at service delivery and inclusive building for elderly and disable people. <i>M. Malavasi, E-J. Hoogerwerf</i> 191 - Theory and practice: the response of people with neurodegenerative disorders to home design in western australia. <i>E. Karol, M. Giles</i>	ELE2 Auditorium
	<b>Biorobotics for longevity – 2</b> Chairs: <i>T-L. Lee, A. Omer</i> 154 - A step machine for the elderly with osteoarthritis. <i>H-T. Fan, T-L. Lee, K-C. Weng, M-L. Liao</i> 73 - Markerless human motion capture-based exercise feedback system to increase efficacy and safety of elder exercise routines. <i>G.L. Alexander, T.C. Havens, M. Skubic, M. Rantz, J.M. Keller, C. Abbott</i> 43 - Simulations for elderly support walking device with humanoid robot. <i>A. Omer, H. Lim, A. Takanishi</i> 75 - Human-carrying biped walking vehicle. <i>K. Hashimoto, Y. Sugahara, H. Sunazuka, M. Kawase, K. Hattori, H.O. Lim, A. Takanishi</i>	BRL2 Pacinotti room
	<b>Inclusive design and usability - 3</b> Chairs: <i>A. Sterns, *****</i> 107 - Human factors design of a group activity for people with dementia. <i>A. Sterns, H. Sterns, R. Sterns</i> 119 - User analysis and quality function deployment for the design of four wheeled walker. <i>K.T. Jung, J.H. Kim, K.J. Chun, B.H. Won, J.S. Hoong</i> 122 - Comparative study between old and young people's basic characteristics for control device design. <i>K.T. Jung, B.H. Song, H.B. Shin, K.J. Chun, B.H. Won</i> 36 - A study on visibility with night driving. <i>K. Yamanaka, S. Yamamoto, M. Kawakami</i>	IDU3 Fermi room
	<b>ICT for the ageing society – 2</b> Chairs: <i>W.F. Chan, H. Umemuro</i> 103 - A qualitative and quantitative study of information technology usage and quality of life among older persons in hong kong. <i>W.F. Chan, D.R. Phillips, O.L. Siu</i> 125 - Older adults and the use of e-health information. <i>S.J. Czaja, C.C. Lee, S.N. Nair, J. Sharit</i> 132 - Two-nearly: moderate communication of awareness to connect families living far apart. <i>M. Sorakubo, H. Umemuro.</i> 133 - Activating communications among family members living far apart by sharing common topics through television. <i>K. Takashima, H. Umemuro.</i> 40 - Web-based training of prison professionals for better care and management of older prisoners. <i>A. Sterns, H. Sterns, C. Sed, R. Sterns, G. Lax</i> 42 - Activity self-surveying of older adults using smartphones. <i>A. Sterns, H. Sterns</i>	ICT2 Galilei room
11:00 – 11:30	<b>Coffee Break</b>	Ground Floor

<b>11:30-12:45</b>	<b>Parallel sessions and workshops 06_2</b>	
	<p><b>Workshop “Ageing Economy: from social responsibility to new business opportunities”</b></p> <p>organized by Gorka Eizmendi, Fatronik Foundation  Turning Silver into Gold. <i>Mary Furlong Ed.D – MF &amp; Associates President and CEO</i>  FIK Research: Technology for a better life. <i>Gorka Eizmendi, Deputy Director of Health an Quality of Life Unit, Fatronik</i>  AGE. The European Older People’s Platform. <i>Speaker TBD</i></p>	WS AGECO Auditorium
	<p><b>Joint WASEDA/SSSA Workshop on BioRobotics (invited session) - 2</b></p> <p>Chairs: <i>A. Menciassi, A. Takanishi</i></p> <p>168 - Design of a hand exoskeleton (handexos) for the rehabilitation of the hand. <i>S. Roccella, E. Cattin, N. Vitiello, F. Giovacchini, A. Chiri, F. Vecchi, M. C. Carrozza</i></p> <p>186 - Design of a bending module for assembling reconfigurable endoluminal surgical system. <i>K. Harada, E. Susilo, N. Ng Pak, A. Menciassi, P. Dario</i></p> <p>146 - Application of biped humanoid robot to motion simulation for elderly and disabled people. <i>H. Kondo, Y. Ogura, H. Aikawa, A. Morishima, J. Shimizu, H.Lim, A. Takanishi</i></p> <p>163 - Digitus: towards a platform for the characterization of the finger biomechanics in fine manipulation. <i>N. Vitiello, C.M. Oddo, S. Roccella, S. Micera, M.C. Carrozza.</i></p>	WASEDA2 Pacinotti room
	<p><b>Engineering of living environments - 3</b></p> <p>Chairs: <i>M. Brink, A.A.M. van Vliet</i></p> <p>11 - The living environment in the nursing home for older adults with low vision: development of an environmental observation scale. <i>M. Sinoo, H. Kort, L. Altena, N. van den Berg, C. van Schie, J. van der Werken</i></p> <p>18 - An open agent-based home automation system. <i>M. Brink, A.J. Jessurun, F. Franchimon, J.E.M.H. van Bronswijk</i></p> <p>78 - Effects of led lighting characteristics on visual performance of elderly people.. <i>M. Yamagishi, K. Yamaba, C. Kubo, K. Nokura, M. Nagata</i></p> <p>91 - Help with monitoring of elderly by using physical activities criteria. <i>E. Campo, S. Bonhomme, M. Chan, D. Estève</i></p> <p>121 - Dwelling features that facilitate ageing-in -time. <i>A.A.M. van Vliet</i></p>	ELE3 Fermi room
	<p><b>Telemonitoring and telecare - 3</b></p> <p>Chairs: <i>B. Kröse, M. Rogante</i></p> <p>101 - Care: context awareness in residences for elderly. <i>B. Kröse, T. van Kasteren, C. Gibson, T. van der Dool</i></p> <p>105 - Telecare and telehealth care network in taiwan. <i>C-R . Huang, J-Y. Chang</i></p> <p>109 - Ict for home-based service to maintain the upper limb function in ageing. <i>M. Rogante, M. Bernabeu, C. Giacomozzi, H. Hermens, B. Huijgen, S. Ilsbroukx, R. Magni, E. Opiisso, S. S. Marchese, M. Vollenbroek-Hutten, M. Zampolini, V. Macellari</i></p> <p>112 - Use of a data transmission system for neuropsychological evaluation in adult and elderly patients. <i>V. Canonico, G. Corbi, G. Conchiglia, F. Fortunato, M. Abitabile, F. Rengo</i></p> <p>193 - DREAMING, a systematic study of the Welfare Technologies on elderly care and on quality of life of elderly people. <i>M. D'Angelantonio.</i></p>	TM&TC3 Galilei room
<b>12:45 – 14:15</b>	<b>Lunch</b>	Ground Floor

14:15 – 15:30	<b>Parallel sessions 06_3</b>	
	<b>Biorobotics for longevity – 3</b> Chairs: <i>A. Takanishi, W. Yu</i> 147 - Design and Evaluation of the new Emotional Expression Head for the ADL assistive Full-body Emotion Expression Humanoid Robot KOBIAN. <i>N. Endo, S. Momoki, M. Zecca, K. Itoh, A. Takanishi</i> 157 - Design and evaluation of the soft hand whs-1 for the emotion expression humanoid robot kobian. <i>M. Zecca, K. Endo, N. Endo, Y. Mizoguchi, T. Kusano, K. Itoh, A. Takanishi</i> 188 - A robotic system architecture for interactive smart environment. <i>W. Yu, J-Y. Lee, K. Han, J-C. Sohn, M. Jang, Y-J. Cho</i> 189 - Network-based robots and user interaction framework. <i>D.N. To, D-I Kim, B-J You, S-R Oh</i>	BRL3 Auditorium
	<b>Gerontology - 3</b> Chairs: <i>W-M. Chi, E. Guglielmelli</i> 64 - Neural network, bioelectrical impedance and dual-energy x-ray absorptiometry in the assessment of body fat in elderly taiwanese men. <i>K-C. Hsieh, P-C. Tuan, C. Pei, C.S. Lin, W-M. Chi</i> 172 - Oep-based evaluation of respiratory rehabilitation in elderly patients after lung resection for nslc. <i>G. Magrone, D. Formica, M. Milazzo, E. Gallotta, L. Zollo, E. Guglielmelli, S. Valente, P. Granone, S. Sterzi</i> 175 - Hearing loss in older adults: perspectives for rehabilitation with customised hearing aids and a follow-up fitting procedure. <i>A. Natalizia, M. Casale, E. Guglielmelli, F. Salvinelli</i> 150 - Is there any possibility that heart transplantation can be replaced by an artificial heart?. <i>M. Umezu, K. Iwasaki, Y. Qian, T. Yagi, K. Yamazaki, T. Kitano, T. Tokunoc, S. Yamazaki</i>	GER3 Pacinotti room
	<b>Cognitive ageing and games - 2</b> Chairs: <i>H. van Rijn, P. Marti</i> 71 - Utilizing montessori and universal design principles to produce a group activity for people with dementia. <i>A. Sterns, H. Sterns, R. Sterns, G. Lax</i> 89 - Crafting sensorial stimulation and social exchange in dementia care. <i>P. Marti, L. Giusti</i> 98 - Observation and modelling of executive processes and associated dysfunction in aging and dementia for cognitive assistance systems. <i>A. Serna, V. Rialle, H. Pigot</i> 161 - Cognitive support for older people from multimedia options. <i>P. Wright, S. Belt, D. Pham, S. Dimov, D. DeRoure</i> 111 - In-car messages to promote safer driving for older adults. <i>M. Zajicek, I-M. Jonsson</i> 108 - Who benefits from computer training of cognitive abilities?. <i>E. Zelinski, P. Housen, K. Yaffe, R. Ruff, R. Kennison, H. W. Mahncke, G. E. Smith</i>	CAG2 Fermi room
	<b>Telemonitoring and telecare - 4</b> Chairs: <i>C. Fischer, L. Chiari</i> 117 - Towards a biometric-based system for characterisation and rehabilitation of patients with urinary incontinence. <i>C. Fischer, D. Sancho-Pradel, K. Schill</i> 127 - A versatile home control and monitoring network. <i>F. Grossi, V. Bianchi, G. Matrella, I. De Munari, P. Ciampolini</i> 138 - Dream : emergency monitoring system for the elderly. <i>G. Bestente, M. Bazzani, A. Frisiello, A. Fiume, D. Mosso, L.M. Pernigotti</i> 185 - A biofeedback-based portable device to support elderly mobility in the home environment. <i>L. Chiari, E. Farella, L. Rocchi, L. Benini</i>	TM&TC4 Room "A"
15:30 – 16:00	<b>Coffee break</b>	Ground Floor
16:15 – 19:00	<b>Social events</b> Visit to the "Piazza dei Miracoli"	
19:00 – 22:00	<b>Farewell party</b>	

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WS_GTECH	Workshop on “Concepts and significance of gerontechnology: past present future”	Day 1	10.45	Auditorium
BRL_1	Biorobotics for longevity - 1	Day 1	10.45	Pacinotti room
GER_1	Gerontology - 1	Day 1	10.45	Fermi room
TM&TC_1	Telemonitoring and telecare - 1	Day 1	10.45	Galilei Room
BIOMECH	Biomechanics of ageing - 1	Day 1	10.45	Room "A"
POSTER_1	Poster session - 1	Day 1	12.00	Corridor
ICT_1	ICT for the ageing society - 1	Day 1	16.15	Fermi room
IDU_1	Inclusive design and usability - 1	Day 1	16.15	Galilei Room
GAIT	Gait and ageing - 1	Day 1	16.15	Room “A”
ATXXI	Assistive Technologies for supporting the elders: a XXI century approach (invited session)	Day 2	9.45	Auditorium
WASEDA_1	Joint WASEDA/SSSA Workshop on BioRobotics (invited session) - 1	Day 2	9.45	Pacinotti room
ELE_1	Engineering of living environments - 1	Day 2	9.45	Fermi room
IDU_2	Inclusive design and usability - 2	Day 2	9.45	Galilei Room
GER_2	Gerontology - 2	Day 2	9.45	Room “A”
POSTER_2	Poster session - 2	Day 2	11.30	Corridor
REHAROB	Rehabilitation robotics (invited session)	Day 2	15.00	Auditorium
CAG_1	Cognitive ageing and games - 1	Day 2	15.00	Fermi room
TM&TC_2	Telemonitoring and telecare - 2	Day 2	15.00	Galilei Room
AFR	Gerontechnology in African Countries (invited session)	Day 2	15.00	Room “A”
ELE_2	Engineering of living environments - 2	Day 3	9.45	Auditorium
BRL_2	Biorobotics for longevity - 2	Day 3	9.45	Pacinotti room
IDU_3	Inclusive design and usability - 3	Day 3	9.45	Fermi room
ICT_2	ICT for the ageing society - 2	Day 3	9.45	Galilei Room
WASEDA_2	Joint WASEDA/SSSA Workshop on BioRobotics (invited session) - 2	Day 3	11.30	Pacinotti room
ELE_3	Engineering of living environments - 3	Day 3	11.30	Fermi room
TM&TC_3	Telemonitoring and telecare - 3	Day 3	11.30	Galilei Room
BRL_3	Biorobotics for longevity - 3	Day 3	15.00	Auditorium
GER_3	Gerontology - 3	Day 3	15.00	Pacinotti room
CAG_2	Cognitive ageing and games - 2	Day 3	15.00	Fermi room
TM&TC_4	Telemonitoring and telecare - 4	Day 3	15.00	Galilei Room

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Glasson, Hubert	35 (TM&TC_1)
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Hedberg, Merja	23 (BRL_1)	Kangastupa, Timo	23 (BRL_1)
Heerink, Marcel	57 (BRL_1)	Karol, Elizabeth	191 (ELE_2)
Hermens, Hermie	109 (TM&TC_3)	Kato, Noriko	94 (BRL_1)
Hiroshi, Kimura	99 (POSTER_2)	Katsumata, Akitoshi	97 (POSTER_1)
Hiroyuki, Takao	149 (WASEDA_1)	Kawakami, Mitsuyuki	36 (IDU_3)
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Hong, Jae Soo	119 (IDU_3)	Keller, Thierry	61 (GAIT)
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Hsieh, Kuen-Chang	64 (GER_3)	Kim, Jong Hyun	119 (IDU_3)
Hua, Hui-Min	52 (POSTER_2)	Kimura, Ryuhei	94 (BRL_1)
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Lanfermann, Gerd	50 (IDU_1)
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Lee, Jae-Yeong	188 (BRL_3)
Lee, Traw-Ran	52 (POSTER_2)
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Magnillat, Odile	87 (TM&TC_2)
Magrone, Giovanni	172 (GER_3)
Mahncke, Henry W.	108 (CAG_2)
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Mahoney, Edward	152 (POSTER_1)
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Matsuno, Masao	97 (POSTER_1)
Mattei, Eugenio	92 (POSTER_2)
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Miramonti, Cristina	20 (IDU_1)
Miyagishima, Shunsuke	99 (POSTER_2)
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Momoki, Simpei	147 (BRL_3)
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Motova, Takahiro	54 (TM&TC_1)
Mueller, Sonja	106 (IDU_2)
Murayama, Yuichi	149 (WASEDA_1)

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Nagata, Masanori	78 (ELE_3)
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Nair, Sankaran N.	125 (ICT_2)
Naitoh, Masahiro	137 (POSTER_1)
Nakagawa, Ryo	137 (POSTER_1)
Nakajima, Kazuki	54 (TM&TC_1)
Nakamichi, Noboru	83 (IDU_2)
Naritoshi, Iida	99 (POSTER_2)

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Not, Elena	95 (POSTER_1) 48 (IDU_1) 96 (ICT_1)	Pozzato, Stefano	20 (IDU_1)
Noury, Norbert	35 (TM&TC_1)	Prazak, Barbara	27 (ELE_1)
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Philippe, Poignet	177 (REHAROB)		

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Sako, Hirofumi	137 (POSTER_1)
Salo, Sinikka	79 (TM&TC_2)
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Schaff, Mathieu	67 (POSTER_2)
Schill, Kerstin	117 (TM&TC_4)
Schouten, Ben	129 (POSTER_2)
Sdogati, Claudio	12 (TM&TC_1)
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Seraglia, Bruno	183 (POSTER_1) 182 (POSTER_1)
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Shee, Cheng Yap	177 (REHAROB)
Shibata, Takanori	62 (POSTER_1)
Shimizu, Juri	146 (WASEDA_2)
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Shin, Hyun Bong	122 (IDU_3)
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Silva, Teri	110 (CAG_1)
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Song, Bok Hee	122 (IDU_3)
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Spagnolli, Anna	182 (POSTER_1)
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Stulp, Freek	21 (POSTER_1)
Sugahara, Yusuke	75 (BRL_2)
Summa, Antonio	20 (IDU_1)
Sunazuka, Hiroyuki	75 (BRL_2)
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Tanaka, Kunihiko	116 (BMECH)
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