

November 16

- 14.00 - 14.30 **Opening session**
Marco Conti, Director DIITET-CNR
On. Maria Chiara Carrozza,
Professor of Biorobotics, Scuola
Superiore Sant'Anna
- Session 1: Big Data and Open Data**
Session organizers: Andrea Clematis (IMATI)
Carlo Meghini (ISTI)
- 14.30 - 15.30 **Keynote - The dark side of Big Data: efficient algorithms and data structures**
Prof. Paolo Ferragina, Vicerector at
the University of Pisa
- 15.30 - 15.55 **Ranking in the era of Big Data**
Raffaele Perego (ISTI)
- 15.55 - 16.20 **Big Data and 3D media: challenges and opportunities in the future internet**
Michela Spagnuolo (IMATI)
- 16.20 - 16.50 **Coffee break**
- 16.50 - 17.15 **Invited talk - Dr. Marco Bani, Agenzia per l'Italia Digitale**
- 17.15 - 17.40 **Returners and explorers: the dichotomy of human mobility**
Luca Pappalardo (ISTI)
- 17.40 - 18.05 **Online social networks as a BigData social microscope**
Andrea Passarella (IIT)

November 17

- Session 2: Transport**
Session organizers: Silvia Bertoluzza (IMATI)
Carlo Beatrice (IM)
- 09.00 - 10.00 **Keynote - Innovating in the transport sector: the value of starting again from function**
Ing. Nevio Di Giusto, President
Cluster Trasporti 2020
- 10.00 - 10.25 **ICT for Smart Mobility: models and algorithms for the mangement of urban traffic**
Giovanni Felici (IASI)

DIITET 2015 Conference Program

- 10.25 - 10.50 **The new-generation powertrains for 2030 mobility**
Carlo Beatrice (IM)
- 10.50 - 11.20 **Coffee break**
- 11.20 - 11.45 **Energy efficient ships via simulation-based design with experimental assessment**
Matteo Diez (INSEAN)
- 11.45 - 12.10 **Technologies and infrastructures for zero-emission vehicles**
Giuseppe Napoli (ITAE)
- 12.10 - 13.30 **Panel: Cyber-Security and Transport**
Panel chair: Fabio Martinelli (IIT)
Panelists: Rita Forsi (MISE, Director ISCOM)
Walter Nesci (Magnetis Marelli)
Carlo Bergonzini (UNIPOL)
Giuseppe Lami (Automotive Spin Italia)
Eda Marchetti (ISTI)
Ilaria Matteucci (IIT)
- 13.30 - 14.30 **Lunch**
- 14.30 - 14.50 **Prof. Luigi Nicolais, CNR President**
- Session 3: Robotics**
Session organizer: Lorenzo Molinari Tosatti (ITIA)
- 14.50 - 15.50 **Keynote - Flexible and trasformable production by Industry 4.0**
Prof. Dr. Ing. Matthias Putz,
Fraunhofer Institute for Machine
Tools and Forming Technology
- 15.50 - 16.15 **Field robotics at CNR**
Massimo Caccia (ISSIA)
- 16.15 - 16.45 **Coffee break**
- 16.45 - 17.10 **Artificial intelligence and robotics: a CNR perspective**
Amedeo Cesta (ISTC)
- 17.10 - 17.35 **Aereal robotics for environmental monitoring**
Andrea Zappettini (IMEM)

- 17.35 - 18.00 **Robotics for the factory of the future**
Lorenzo Molinari Tosatti (ITIA)

November 18

- Session 4: Aerospace technologies**
Session organizer: Gianfranco Fornaro (IREA)
- 9.00 - 10.00 **Keynote - Radar sensors from the space: current status and future perspectives**
Ing. Andrea Torre, Product Line
Manager dei payload radar di thales
Alenia Space
- 10.00 - 10.25 **The last generation radar "Eyes"**
Fabio Bovenga (ISSIA)
- 10.25 - 10.50 **Active and passive remote sensing technologies**
Stefano Baronti (IFAC)
- 10.50 - 11.20 **Coffe break**
- 11.20 - 11.45 **Application of optical remote sensing**
Claudia Giardino (IREA)
- 11.45 - 12.10 **RF Technologies for space applications**
Oscar Peverini (IEIIT)
- 12.10 - 13.30 **Panel: Perspectives of the technological development in the space sector: application outcomes and impacts for the services market**
Panel Chair: Gianfranco Fornaro (IREA)
Panelists: Antonio Bartoloni (MISE,
Director Division III - Policies for
sustainable development and
competitiveness)
Alessandro Coletta (ASI,
Mission Manager COSMO/SKYMED)
Salvatore Contu (Thales Alenia
Space Italia S.p.A.),
Giovanni Corsini, University of
Pisa, Director of Information
Engineering Department
Marco Luise (President Toscana
Spazio)
Tiziano Mazzoni (SELEX,
delegate to the aerospace
technological district FORTIS)

Aree Progettuali DIITET

Dispositivi e sistemi ICT

Internet del futuro

Dati, contenuti e media

e-Infrastrutture

CyberSecurity

Robotica e automatica

Fabbrica del futuro

e-Health

Biotechnologie

Nanotecnologie e materiali avanzati

Tecnologie per la fruizione e salvaguardia
dei Beni Culturali

Tecnologie per l'aerospazio e l'osservazione
della terra

Sicurezza della società

Tecnologie per l'agricoltura sostenibile e la
sicurezza del cibo

Costruzioni sostenibili

Smart City

Tecnologie energetiche a basse emissioni

Veicoli a basso impatto ambientale

Tecnologie marittime

Fusione termonucleare

Matematica applicata

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Consiglio Nazionale delle Ricerche

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Area della Ricerca di Pisa
16-18 Novembre 2015
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Via Giuseppe Moruzzi 1

