

**JOINT DECLARATION AFTER THE 9TH BIENNIAL REVIEW MEETING ON SCIENTIFIC
AND TECHNOLOGICAL COOPERATION BETWEEN THE REPUBLIC OF ITALY AND
THE UNITED STATES OF AMERICA
Washington DC on April 22-23, 2008.**

Pursuant to the Agreement Between the Government of the Italian Republic and the Government of the United States of America for Scientific and Technological Cooperation, signed in Rome on April 1, 1988, as amended and extended on October 4, 1993, and the Joint Declaration after the 8th Biennial Review Meeting on Bilateral Cooperation, signed in Rome on September 29, 2005 the 9th review meeting was held in Washington DC on April 22-23, 2008.

DELEGATIONS

The U.S. delegation was headed by Ambassador Reno A. Harnish, Principal Deputy Assistant Secretary for the Bureau of Oceans, Environment and Science, State Department, for the first portion and Jeffrey A. Miotke, Deputy Assistant Secretary for Health, Space and Science, Bureau of Oceans, Environment and Science, State Department, for the second portion.

The Italian delegation was headed by Minister Plenipotentiary Sebastiano Cardi, Chargé d'Affaires of the Embassy of Italy to the United States of America, for the first portion and First Counselor Stefano Beltrame, Head Economic, Commercial and Scientific Affairs Office, Embassy of Italy to the United States of America, for the second portion.

The composition of the two delegations is reported in ANNEX I.

AGENDA

The agenda of the joint review meeting was adopted as follows:

1. Review of the bilateral scientific activities carried out in the period 2005-2008.
2. Areas of relevant interest for both countries.
3. Agencies and institutions involved in scientific and technological cooperation: organization, funding policy, perspectives.
4. Instruments to pursue the objectives.
5. New Program of Cooperation
 - a) list of joint projects for the years 2008-2010
 - b) significant bilateral research projects
 - c) financial conditions
6. Meeting of the next Joint Commission.

1. Review

The two delegations reviewed the cooperative activities accomplished to date and expressed their satisfaction with the implementation of the projects established at the 8th Session of the U.S. – Italian Joint Commission on Scientific and Technological Cooperation, held in Rome on September 28-29, 2005.

2. Areas of interest for both countries

The two delegations reviewed progress made in a wide range of scientific and technological areas in the last two years.

Scientists implemented many other bilateral scientific studies and a very large number of cooperative projects were found to be active between the two countries.

Such studies include the traditional research fields where the participation of both sides is fruitful and provides an opportunity for cross-fertilization. These collaborations contributed to invaluable results in many different fields: joint efforts are advancing a deeper understanding in nearly all possible sectors of science and technology.

The two delegations discussed the scientific sectors of new scientific bilateral projects between the two countries in the area of science and technology and agreed on, among other things, their scope, contents, and areas of intervention as well as details with regard to the modalities for their implementation.

The two delegations reconfirmed that the topics of highest priority for Italy and the United States are:

1. Basic Sciences
2. Life Sciences (Including Health, Biotechnology, Agriculture)
3. Space
4. Environment Science, Earth Science and Climate Change
6. Energy
7. Information and Communication Technologies
8. Robotics
9. Nanosciences, Advanced Materials
10. Technology Applied to Cultural Heritage

Many existing scientific bilateral projects fall within these subject areas and involve qualified teams from both countries that produce high quality outputs.

3. New Programs of Cooperation

The call for proposals issued in the period January 29 - February 27, 2008, resulted in the submission of over 400 bilateral scientific projects. Among these, 79 joint mobility projects and 92 “significant research projects” were considered eligible; 46 projects were selected to be granted financial support for the exchange of researchers. The financing of the selected projects will be based upon the national laws and regulations of both Countries. The list of the selected projects is given in Annex II and

relative financial conditions of the co-operation with administrative and financial provisions for the implementation of the Program are given in Annex III.

Significant bilateral research projects

In addition to the bilateral projects listed in Annex II, the Italian party will consider granting an unilateral financial contribution to the 21 significant bilateral research projects ("Progetti di Grande Rilevanza"). A preliminary list of such projects is given in Annex IV. These financial contributions are intended to partially cover the research activities of the project. The financial support will be granted to the Italian partners upon evaluation of the applications to be submitted according to the indications that will be given by the Italian side.

4. Agencies and institutions involved in scientific and technological cooperation

Funding of scientific projects discussed during this meeting and the resulting scientific cooperation will be undertaken without the exchange of funds. The ability of each Party to undertake the scientific projects listed in the present document is subject to the availability of funds and resources in each country.

Nevertheless, the United States and Italian agencies and institutions primarily involved in funding scientific research projects within their respective competencies will be informed of the present document, in order to take in consideration the common interest of the two countries in the implementation of the listed projects.

For Basic Sciences, the involved institutions are CNR, MUR, ENEA, INFN, INAF, ISS, NSF, DOE, and DHHS.

For Life Sciences, the involved institutions are Ministero della Salute, CNR, MUR, ENEA, INMI, INFN, INAF, ISS, NSF, USDA, NOAA, and NIH.

For Space, the involved institutions are ASI, INAF, MUR, INFN, OGS, and NASA.

For Energy, the involved institutions are CNR, MUR, ENEA, Ministry for the Environment and Territory, Ministry of Economic Development, OGS, DOE, USDA, and EPA.

For Environment Science, Earth Science, and Climate Change, the involved institutions are CNR, MUR, Ministry for the Environment and Territory, INGV, ENEA, OGS, EPA, USGS, USAID, NOAA, and NSF.

For Information and Communication Technologies, the involved institutions are MUR, ENEA, CNR, INFN, NSF, and DOE.

For Robotic and Communication Technology, the involved institutions are CNR, MUR, INFN, NIST, and NSF.

For Nanosciences and Advanced Materials, the involved institutions are MUR, ENEA, CNR, INFN, NSF and DOE.

For Technology applied to Cultural Heritage the involved institutions are MUR, ENEA, CNR, INFN, OGS, NSF, Smithsonian, and DOE.

5. Instruments to pursue the objectives

The exchange of scientists and students as appropriate may take place using any available funding resources, including funds within the budgets of U.S. scientific and technical agencies, the European Commission funds designated for mobility of scientists from the United States, and funds designated by the Italian Ministry for Foreign Affairs for the mobility of researchers.

The United States and Italy intend to encourage the exchange of scientists and to provide assistance to facilitate all the necessary visa procedures. In all the priority areas listed above, Italy and the United States intend also to facilitate technical agreements between universities, research institutions, and agencies, as appropriate.

All initiatives discussed in this Programme should be carried out to the best of the Parties' abilities within the limits of the budgets and according to the rules of each country. The Italian Ministry for Foreign Affairs, within the limits of its yearly budget, intends to examine the possibility of contributing to research expenses of the projects in ANNEX II with mobility funds and ANNEX IV as "significant bilateral projects" as provided by Italian Law 401/1990.


6. Next Meeting of the Joint Commission

The two delegations agreed that the next session of the Joint U.S.-Italian Commission on scientific and technological cooperation will take place in Rome no later than the end of 2010.

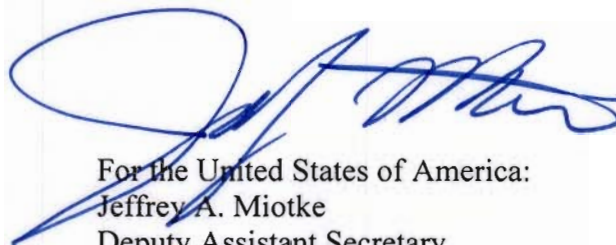
The parties agree to explore prior to the next biennial meeting new means to exchange information on national scientific priorities and areas of potential cooperation.

Any addition to the present document will be agreed on through diplomatic channels.

Signed at Washington DC, April 23, 2008, in duplicate, in the English language.



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ANNEX I

Italian and United States Delegations

ANNEX II

Selected Joint Projects for the Exchange of Researchers.

ANNEX III

Administrative and Financial Provisions for Projects in Annex II

ANNEX IV

Selected Significant Bilateral Projects.

ANNEX I

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Istituto Nazionale Fisica della Materia (INFN)

Dr. Luca Rosi
Istituto Superiore di Sanità (ISS)

ANNEX II

Selected Joint Mobility Projects for the Exchange of Researchers

1	BS	Mathematical modeling of adaptation to light in the rod cell	Andreucci Daniele	Università di Roma La Sapienza Dipartimento di Metodi e Modelli Matematici	Di Benedetto Emmanuele	Vanderbilt University Department of Mathematics
2	NS,AM	Platelet release mechanisms: functional analysis in silk fibroin microtubes as bone marrow vascular niche models	Balduini Alessandra	Università di Pavia Dipartimento di Biochimica	Kaplan David	Tufts University Department of Biomedical Engineering
3	LS	Characterization of the epigenetic mechanisms modulated by the histone demethylase LSD1 in the nervous system	Battaglioli Elena	Università di Milano	Dallman Julia	University of Miami
4	BS	Projective Reconstruction from Multiple Views in Higher Dimensions: Applications of Algebraic Geometry to Computer Vision	Bertolini Marina	Università degli Studi di Milano Dipartimento di Matematica	Besana Gianmario	DePaul University School of Computer Science Telecommunications and Information Systems
5	LS	Non viral vectors for gene therapy: lipid phase control of gene delivery and DNA intracellular trafficking	Caminiti Ruggero	Università di Roma La Sapienza Dipartimento di Chimica	Gratton E.	University of California, Irvine Department of Biomedical Engineering
6	ES,CC	GPS Monitoring of Geodynamics and Ice Sheets in Antarctica	Capra Alessandro	Università di Modena e Reggio Emilia	Wilson Terry	Ohio State University
7	LS	Exploiting microbial genes to rid fruit juices of the mycotoxin patulin	Castoria Raffaello	Università del Molise	Idnurma Alexander	University of Missouri Kansas City

8	LS	Molecular engineering of new chemo-sensors for food pollutants	Cozzini Pietro	Università di Parma Dipartimento di Chimica Generale	Kellogg Glen. E.	Virginia Commonwealth University Institute for Structural Biology and Drug Discovery
9	NS,AM	Meta-materials investigation using a frequency-combined infrared nano-spectrometer	Crosignani Bruno	Università degli Studi dell'Aquila	Mookherjea Shayan	University of California
10	BS	Evolutionary processes in anisakid nematodes: from gene sequences to the hypotheses of speciation mechanisms, host parasite cophylogeny and morphological and life history evolution	D'Amelio Stefano	Università di Roma La Sapienza Dipartimento Scienze della Salute	Nadler Steven a.	University of California Department of Nematology One
11	LS	Integrating bio-economic and conservation goals: fisheries benefits of marine reserves	De Leo Giulio	Università degli studi di Parma Dipartimento di Scienze Ambientali	Micheli Fiorenza	Standford University
12	BS	Adaptive Large Eddy simulation of complex turbulent Flows	De Stefano Giuliano	Seconda Università di Napoli Dipartimento di Ingegneria Aerospaziale e Meccanica	Vasilyev Oleg V.	University of Colorado at Boulder Department of Mechanical Engineering
13	LS	Molecular mechanism in gliomagnesis: gene expression. Data and proteomic approach	Germanò Antonino F.	Università di Messina	Miles Michael	Virginia Commonwealth, Richmond Virginia.
14	BS	Development of a library of PTA-based ligands for sustainable catalytic reaction in water.	Gonsalvi Luca	CNR-ICCOM-Sesto Fiorentino	Krogstad Donald A.	Concordia College, Moorhead

15	ICT	Hybrid Wireless Mesh Access for Next-Generation Service-Oriented Networking	Granelli Fabrizio	Università degli Studi di Trento	Devetsikiotis Micheal	ECE Department Campus Box 7911 North Carolina State University
16	LS	Central and peripheral factors contributing to the impaired oxidative metabolism in microgravity experimental & theoretical approach	Grassi Bruno	Università degli Studi di Udine	Cabrera Marco E.	Case Western Reserve University
17	NS, AM	Flow-microstructure interactions during crystallization of thermoplastic polymers under processing conditions	Grizzuti Nino	Università di Napoli Federico II	Kornfield Julia A.	Department of Chemical Engineering, California Institute of Technology
18	ES,CC	Precise location and study of the source mechanisms of non- volcanic tremor	La Rocca Mario	Istituto Nazionale di Geofisica e Vulcanologia	Creager Kenneth C.	University of Washington Department of Earth and Space Sciences
19	LS	Detecting some early of the Autism Spectrum Disorder by means of non invasive technologies	Lenti Carlo	Università di Milano U.O. Neuropsichiatria Infantile A.O. San Paolo	Sinha Pawan	MIT Brain & Cognitive Science Department
20	ICT	Perceptive Ambient	Mayora Oscar	CREATE-NET, Trento	Rehg James M.	Georgia Institute of Technology
21	ICT	Tera-Scale Wireless Network	Miorandi Daniele	CREATE-NET, Trento	Haenggi Martin	Notre-Dame University Department of Electrical Engineering

22	LS	Mechanism of cation transport ATPases: correlating biochemical reactions with charge displacement	Moncelli Maria Rosa	Università di Firenze Dipartimento di Chimica	Inesi Giuseppe	California Pacific Medical Center Research
23	BS	Deciphering the Dark Side of the Universe using galaxy clusters: predictions for next generation space missions	Moscardini Lauro	Università di Bologna Dipartimento di Astronomia	Evrard August E.	University of Michigan Department of Physics
24	LS	Historical routes of olive fly invasion world wide reconstructed using a mitochondrial genomic approach	Nardi Francesco	Università di Siena	Roderick George	University of California, Berkley.
25	LS	Biological design automation algorithms, model, methodologies for biological circuit design	Niccolai Neri	Università di Siena Dipartimento di Biologia Molecolare	Butcher S.	University of Wisconsin Department of Biochemistry
26	BS	Calibration of the Atlas Muon Spectrometer	Orestano Domizia	Università Roma Tre	Levin Daniel S.	University of Michigan Department Of Physics
27	LS	Quality of Life in Long Term Osteosarcoma Survivors	Ottaviani Giulia	Università di Milano	Jaffe Norman	University of Texas MD Children's Cancer Center MD Anderson Cancer Center
28	BS	Hybrid nanostructures for high performance superconducting photodetectors	Parlato Loredana	CNR-INFM CRS Coherentia	Sobolewski Roman	University of Rochester Department of Electrical and Computer Engineering

29	LS	Detection of protein-protein interactions using AFM	Poltronieri Palmiro	CNR-ISPA Agri-food Department Institute of Sciences of Food Productions	Yifen Wang Ph. D.	Engineering Auburn University Department of Biosystems
30	BS	Design of nanoparticles for biosensors aimed at bioimaging and environmental monitoring: a computer-aided multiscale approach	Rega Nadia	Università degli Studi di Napoli Federico II Dipartimento di Chimica 'Paolo Corradini'	Violi Angela	University of Michigan Department of Mechanical Engineering, Biomedical Engineering and Chemical Engineering
31	LS	DNA electrochemical sensors (DNA-else)	Ricci Francesco	Università di Roma "Tor Vergata" Dipartimento di Chimica	Plaxco Kevin W.	University of California Department Of Chemistry and Biochemistry
32	THC	Technologies Applied to Cultural Heritage	Rinaldi Romano	Università di Perugia	Liang Liyuan	Oakridge National Laboratory
33	ICT	Unsupervised data analysis methods based on relational representations: theory, implementation and applications	Rovetta Stefano	Università di Genova Dipartimento di Computer e Scienze Informatiche	Domeniconi Carlotta	George Mason University Department of Computer Science
34	BS	Mappings of finite distortion: geometric techniques and partial differential equations	Sbordone Carlo	Università di Napoli "Federico II" Dipartimento di Matematica	Iwaniec Tadeusz	Syracuse University
35	NS,AM	Liquid Crystalline Meta-Materials	Simoni Francesco	Università Politecnica delle Marche	Khoo Iam Choon	Pennsylvania State University
36	LS	Crop Growth evapo-transpiration modeling for water resources and climate change management	Spano Donatella	Università di Sassari Dipartimento di Economia e Sistemi Arborei	Snyder Richard	University of California

37	SP	Stellar and planetary parameters of transiting planet systems discovered by Kepler	Sozzetti Alessandro	INAF, OA Torino	Latham David	Harvard Smithsonian Center for Astrophysics , Cambridge, MA
38	ICT	Database integration evolution & archiving: a unified approach	Tanca Letizia	Politecnico di Milano DEI	Zaniolo Carlo	University of California Los Angeles
39	LS	Role of Ape1 in Neurotoxicity of Cancer Treatments	Tell Gianluca	Università di Udine, Dipartimento di Scienze Biomediche Tecnologie	Kelley Mark R.	Indiana University Simon Cancer Center and the Herman Bwells Center for Pediatric Research
40	LS	Tissue factor isoforms, novel multigate Doppler imaging and venous thrombolism in the maternal and pediatric population	Tortoli Piero	Università di Firenze Dipartimento di Elettronica e Telecomunicazioni	Pidas M.J.	Yale University School of Medicine
41	LS	Role of hypoxia in Neuroblastoma growth	Varesio Luigi	Istituto G.Gaslini, Genova	Melillo Giovanni	SAIC Frederick NCI Frederick
42	LS	A life-span perspective on cognitive impairment in low-vision: hints for possible rehabilitation strategies	Vecchi Tommaso	Università di Pavia Dipartimento di Psicologia	Merabet Lotfi B.	Berenson-Allen Center Harvard Medical school Department Of Neurology
43	BS	Nonlinear diffusion and applications	Vespri Vincenzo	Università di Firenze Dipartimento di Matematica	Manfredi Juan Jose	University of Pittsburg Department of Mathematics
44	ICT	Property Synthesis for Automatic Design od Digital System	Villa Tiziano	Università di Verona	Brayton Robert	University of California, Berkeley Department of EECS

45	BS	Determination of the binding mechanism of <i>Bartonella henselae</i> Pap31 protein to N-terminal Domain of fibronectin	Visai Livia	Università di Pavia Dipartimento di Biochimica	Magnus Hook	Texas A&m University System Health Science Center Institute of Bioscience and Technology. Center for extracellular Matrix Biology
46	ICT	Social Robotics	Zanzotto Fabio Massimo	Università di Roma, Tor Vergata	Webb Nick	ILS, University at Albany, SUNY

LEGENDA

BS: Basic Science; LS Life Science; S: Space; ES,CC: Earth Science and Climate Change ;
E: Energy; ICT : Information and Communication Technologies ; R :Robotics ;
NN,AM: Nanosciences, Advanced Materials.

ANNEX III

Administrative and Financial Provisions

The projects to be financed within the present Programme are listed in **ANNEX II**

The researchers will be entitled to the exchange only if they hold Italian or EU nationality and are legally resident in Italy.

For each project listed in **Annex 2**, 1 journey (travel expenses only) will be financed yearly.

The researchers have to submit, within 30 days after finishing their research, a final report on the activities of the study carried out. The report should be co-signed by both the USA and the Italian researchers involved in the joint project.

Journey of Italian Researchers travelling to United States of America

Italian researchers willing to travel to United States of America to perform their research have to submit, two months before the date of their departure, a formal application to the Office V of the Directorate General for Cultural Promotion and Co-operation of the Italian Ministry of Foreign Affairs, Piazzale della Farnesina 1, 00194 Roma.

The Italian Party will pay travelling expenses in economic class only.

The application is to be completed with:

- name and address of the host Institution
- foreseen dates of departure and arrival
- title of the project
- letter of invitation by the host institution
- declaration of Italian researcher with the engagement: to pay penalties in case of renunciation to travel; to deliver air ticket within 15 days after returning with travelling documents and a final report on the activities carried out
- declaration of the project's co-ordinator concerning the participation of the researcher to the project (only in case the researcher is not the project's leader)
- a short curriculum of the researcher

All these rules are available at the following internet address: www.esteri.it following the breadcrumb [Home](#) > [Foreign Policy](#) > [Culture](#) > [Scientific and Technological Cooperation](#) > [Executive programmes](#) > [Researcher mobility](#).

Journey of United States of America Researchers travelling to Italy.

The U.S. researchers travelling to Italy may be funded following the rules of their active U.S. grants.

ANNEX IV

Selected Significant Bilateral Projects

1	BS	Particle Physics in space with the Alpha Magnetic Spectrometer	Battiston Roberto	INFN, Perugia	S.C.C. Ting	MIT #44-02051
2	SP	Development of a gene space cargo	Billi Daniela	Universita di Roma Tor Vergata	Mckay Christopher	NASA-Ames Research Center
3	ICT	Opportunistic networks for vehicular and personal networks and for ubiquitous access. Extension to MAE joint lab on mobile wireless network	Calia Edoardo	Istituto Superiore Mario Boella, Torino	Gerla Mario	University of California Los Angeles Department of Computer Sciences
4	BS	Understanding the chemical mechanism for interaction of stilbene derivatives with biological targets leading to Alzheimer's disease	Caruso Francesco	CNR Istituto di Chimica Biomolecolare	Massa Louis	CUNY Hunter College
5	BS	Solar bidimensional spectropolarimetry with IBIS	Cavallini Fabio	INAF Osservatorio Astrofisico di Arcetri	Rimmele Thomas	National Solar Observatory P.O. Box
6	NS,AM	Nanocarriers for Cancer Therapy	Cingolani Roberto	NNL-CNR-INFN, Lecce	Lvov Yuri M.	IfM, Louisiana Tech University

7	ES,CC	Studies on content and role of volatiles for hazard evaluation at Vesuvius and Campi Flegrei volcanoes, by means of melt investigations and solubility experiments	De Vivo Benedetto	Università di Napoli Federico II Dipartimento di Scienze	Bodnar J.Robert	Virginia Tech Department of Geosciences
8	LS	Optimization of a linked dimer HCN1-4 channel construct for the generation of a biological pacemaker	Di Francesco Dario	Università degli Studi di Milano Dipartimento di Scienze Biomolecolari e Biotecnologico	Robinson Richard B.	Trustees of Columbia University in the City of New York
9	ES,CC	High efficiency piezoelectric nanogenerators	Falconi Christian	Università degli Studi di Roma "Tor Vergata"	Wang Lin Zhong	Georgia Institute of Technology
10	LS	1 Billion project Joint Lab	Guerra Raniero	Istituto Superiore di Sanità, Roma	Mollica Richard	Harvard Program in Refugee Trauma
11	BS	Building a data Mining platform for e-astronomy in a distributed computing environment	Longo Giuseppe	Università di Napoli Federico II Dipartimento di Scienze Fisiche	Djorgovski George	California Institute of Technology Department of Astronomy
12	NS,AM	Electronic properties of graphene based structures	Molinari Elisa	CNR-INFM/National Research Center S3 and NEST	Yardley James T.	Columbia University, Nanoscale Science and Engineering Center

13	BS	Structural studies of single molecule biosensor KCV	Moroni Anna	Università di Milano Dipartimento di Biologia	Minor Daniel	University of California San Francisco
14	LS	The MED1 protein and Akt signaling in DNA damage response and repair	Neri Luca Maria	Università di Ferrara	Bellacosa Alfonso M.D.	Fox Chase Cancer Center
15	LS	Etiopathogene of primary biliary cirrosis: a genome-Wide association	Podda Mauro	Università di Milano	Gershwin Eric	University of California
16	BS	Mgb2: from microscopic mechanism to large scale applications	Putti Marina	INFM-CNR	Larbalestier David	Florida State University National High Magnetic Field Laboratory
17	BS	Identify and controlling super-spreaders in a wild rodent population	Rizzoli Annapaola	Fondazione Edmund Mach-Centro di Ecologia Alpina Viote del Monte Bondone, Trento	Perkins Sarah	Penn State University Center for Infectious Disease Dynamics
18	NS,AM	Verifying the feasibility of Device based on acoustic surfaces plasmons	Rocca Maria	Università di Genova DIFI	Pohl Karsten	University of New Hampshire Department of Physics
19	LS	Production of a chimeric therapeutic single chain antibody in tobacco plants	Santi Luca	Università di Roma "Tor Vergata"	Quiang Chen	Arizona State University

20	LS	Novel Polymeric materials for life sciences applications through biocatalytic routes and nanotechnology	Scandola Mariastella	Università di Bologna Dipartimento di Chimica "G.Ciamician"	Gross Richard A.	Polytechnic University Department of Chemical and Biological Sciences
21	NS,AM	Italy-USA Lab on nanomaterials for hydrogen and sustainable energy and Joint PhD courses.	Traversa Enrico	Università di Roma Tor Vergata	Wachsman Eric D.	University of Florida Department of Material Science and Engineering

LEGENDA

BS: Basic Science; LS Life Science; S: Space; ES,CC: Earth Science and Climate Change ;
E: Energy; ICT : Information and Communication Technologies; R :Robotics ;
NN,AM: Nanosciences, Advanced Materials.