TT Meetup 2020 Sinottico delle innovazioni raccolte nella fase di Mining (rev: 30/11/2020)

							ICT				Life Sciences				Business products & services					Energy & Environment		
N.	Titolo della Proposta	Ente di provenienza	Dipartimento	Tipologia Proposta	Team Leader	Descrizione della proposta	Intelligenza artificiale	Security	Dispositivi elettronici ed elettroottici	Virtual reality	Diagnostica	Biomenicale	Farmaceutico/ Biotech	e-medicine	Industrial automation	Sensors	Edilizia e costruzioni	Automotive &Trasporti	Macchinari & Impianti	Energy	Environment	Agroalimentare
1	**PLANT-INSPIRED GROWING ROBOT FOR AUTONOMOUS EXPLORATION AND MONITORING IN REMOTE AREA**	ISTITUTO ITALIANO di TECNOLOGIA	Center for Micro-BioRobotics (CMBR), Istituto Italiano di Tecnologia, IIT	Tecnologie / Piattaforme	Barbara Mazzolai	An autonomous system, named growing robot, able to build its own body in order to move, adapt and explore unstructured, possibly dangerous, environments.									X	X						
2	**Derivati arilfenolici, loro metodo di preparazione e loro usi**	UNIVERSITÀ VANVITELLI	Scienze e Tecnologie Ambientali Biologiche e Farmaceutiche	PoC MISE	Antonio Fiorentino	Inhibitors of selected molecular marker deemed important in breast cancer growth, and metastasis and in the development of inflammatory chronic disease.							X									
3	**Harvester di energia vibrazionale ottimizzato mediante la tecnica di tuning meccanico emulato elettronicamente**	UNIVERSITÀ VANVITELLI	Ingegneria	PoC MISE	Luigi Costanzo	The invention is a resonant electromagnetic vibration energy harvester, optimized by electronically emulated mechanical tuning technique.														X		
4	**Dispositivo e metodo per ottimizzare la potenza estratta da un harvester da vibrazioni**	UNIVERSITÀ VANVITELLI	Ingegneria	PoC MISE	Alessandro Lo Schiavo	The invention is an electronic system for the maximization of the average power extracted by a vibration energy harvester.														X		
5	**PERFECTED STAIRCASE VARIABLE INCLINATION STAIRCASE WITH ALTERNATED HALF TREAD STEPS**	UNIVERSITÀ VANVITELLI	Ingegneria	PoC MISE	Adriana Rossi	It is possible to span different levels easily and in a limited amount of space using this patented tube system. The system consis in galvanized tubes for hollow scaffolding joints / half treads. The load bearing element, a 48 mm tubular element for a joint system similar to the one for hollow scaffolding tubes, is fixed to the floor and ceiling using hooks and pre-fabricated fixings that are tightened with the use of a star head screwdriver. A number of hollow scaffolding tubes are fixed on the supporting element at pre-calculated intervals. The treads are previously connected to 48 mm tubular elements and then joined to the half treads. The devise is designed to neutralize torsion flexion compression and the left-right step arrangement allows to cover double the rising of a traditional tread at equal surface. The eccentric soldering of the tubular structure that is joined to the treads makes the system extremely versatile. The half treads can be assembled in either direction to increase or decrease the inclination.										X						
6	**Sistema per estrazione di pezzi chirurgici in corso di chirurgia endoscopica videoassistita**	UNIVERSITÀ VANVITELLI	Scienze Mediche Traslazionali	PoC MISE	Giovanni Natale	The invention consists of a disposable surgical bag and a reusable surgical clamp for the collection of patient's biological specimen during a surgical operation.						X										
7	**Apparecchio perfezionato per la riproduzione di immagini e/o video**	UNIVERSITÀ VANVITELLI	Architettura e Disegno Industriale	PoC MISE	Marco Russo	The patent is a product developed for exhibitions market, where similar solutions are designed and realized site-specific; the patent allows to observe a holographic effect through projectors and reflective surfaces to show images in movement or interactive models in real size.				X												
8	**Trasduttore perfezionato**	UNIVERSITÀ VANVITELLI	Ingegneria	PoC MISE	Martina De Cristofaro	The invention relates to a perfected transducer for the detection of deformations and/or temperature variations in engineering works, comprising at least one distributed optical fiber sensor based on Brillouin scattering and characterized by the fact that, for at least a part of its longitudinal development, said optical fiber is housed inside a containment structure which is destined to be associated with the engineering work of which, and along which, to detect the deformations and/or temperature variations, said containment structure comprising: - an intermediate layer wherein said longitudinal part of optical fiber is completely contained; - a couple of coating layers which cover above and below said intermediate layer, said coating layers have mechanical rigidity characteristics substantially corresponding to those of the optical fiber.										X						
9	**BLOCCO MODULARE DA COSTRUZIONE, IN PARTICOLARE PER LA REALIZZAZIONE DI STRUTTURE DIVISORIE O ARREDI - MODULAR BUILDING BLOCK, IN PARTICULAR FOR CONSTRUCTION OF DIVIDING STRUCTURES OR FURNISHINGS**	POLITECNICO DI BARI		PoC MISE	Calogero Montalbano	Self--supporting modular building block with automatic structural hooking, usable in self--construction, in particular for construction of dividing structures or furnishings.											X					
10	**PANTOGRAFO A FATTORE DI SCALA DIFFERENZIABILE SUI VARI ASSI**	POLITECNICO DI BARI		Brevetti non MISE	Mario Massimo Foglia	A three dimensional, continuous scale factor pantograph differentiable on two perpendicular axes.													X			

11	**GIUNTO SMONTABILE RADIALE MULTIPLO**	POLITECNICO DI BARI		PoC MISE	Rossana Carullo	Bespoke bicycles, from craftsmanship to self--construction, reconfiguration of shapes and materials, sustainable production and consumption.												X				
12	**TRAPPOLA PER FLUSSI ORIZZONTALI DI SEDIMENTI MARINI HTRAP**	POLITECNICO DI BARI		PoC MISE	Michele Mossa	Sediment traps are containers placed by scientists in the water to collect particles falling toward the sea floor, like tiny sediment or larger accumulations called marine snow - made up of organic matter, dead sea creatures, tiny shells, dust and minerals. The invention is aimed to solve some problems related to operation of sediment traps, for example in strong currents and deep water.															X	
13	**SISTEMA ESTENSIMETRICO NON INTRUSIVO A BASSO COSTO PER LA MISURA E IL MONITORAGGIO DELLE SOLLECITAZIONI SULLA BIELLA PER LA DETERMINAZIONE DELLA PRESSIONE NEL CILINDRO IN MACCHINE ALTERNATIVE CON MANOVELLISMO DI SPINTA**	POLITECNICO DI BARI		PoC MISE	Riccardo Amirante	It is a method to indirectly measure the in-cylinder pressure of an internal combustion engine or any other machine composed by a piston moving inside of a cylinder and connected to the crankshaft by means of a connecting rod in the way shown in Figure 1.													X			
14	**OPTICAL ROTATION SENSOR AS WELL AS METHOD OF MANUFACTURING AN OPTICAL ROTATION SENSOR**	POLITECNICO DI BARI		PoC MISE	Caterina Ciminelli	An optical rotation sensor formed by a ring resonator including a one--dimensional photonic crystal waveguide is proposed ad high--resolution resonant micro optic gyroscope.										X						
15	**Brevetto in Italia "Associazione di antagonisti del recettore della vasopressina e calciomimetici, composizione e loro uso per il trattamento del rene policistico" - Domanda di brevetto in Europa "Combination of antagonists for the vasopressin receptor and calcimimetics, composition and their use for the treatment of polycystic kidney"**	UNIVERSITÀ DI BARI ALDO MORO	Bioscienze, Biotecnologie e Biofarmaceutica	PoC MISE	Giovanna Valenti	We propose that association of Antagonists of The Vasopressin Receptor and Calcimimetics, can be effective for the treatment of Polycystic Kidney Disease							X								
16	**Brevetto in Italia "Impiego farmacologico di una miochina capace di preservare la funzione e la massa delle cellule pancreatitiche in condizioni dismetaboliche" - Brevetto in USA ex PCT, Europa + estensione in Hong Kong "Pharmacological use of a miokine able to preserve the function and mass of the pancreatic cells under dysmetabolic conditions"**	UNIVERSITÀ DI BARI ALDO MORO	Emergenza e dei Trapianti di Organi	PoC MISE	Annalisa Natalicchio	Irisin as a valid strategy to prevent or halt beta-cellular functional loss occurring in several dysmetabolic conditions							X								
17	**Brevetto in Italia "Dispositivo e procedimento di acquisizione plenottica di immagini" - Brevetto in Europa, convalidato in Svizzera, Germania, Gran Bretagna, Irlanda e Olanda, estensione in hong Kong "Device and process for the plenoptic capture of images"**	UNIVERSITÀ DI BARI ALDO MORO	Fisica	PoC MISE	Milena D'Angelo	The present invention relates to a technique for the acquisition of plenoptic images, called "Correlation Plenoptic Imaging" (CPI), which exploits the spatio-temporal quantum correlations inherent in light to achieve plenoptic imaging without sacrificing image resolution.			X		X										
18	**Brevetto in Europa, convalidato in Albania, Austria, Belgio, Svizzera/Liechtenstein, Germania, Danimarca, Spagna, Finlandia, Francia, Gran Bretagna, Grecia, Irlanda, Olanda, Polonia, Portogallo, Romania, Svezia, Turchia, Norvegia, San Marino, Repubblica Ceca, Slovacchia, Slovenia, Ungheria. "Irisin for care and prevention of osteoporosis" - Domanda in Hong Kong, estensione della corrispondente domanda in Europa, "Irisin for care and prevention of osteoporosis" - DIVISIONALE USA "Irisin for care and prevention of osteoporosis"**	UNIVERSITÀ DI BARI ALDO MORO	Emergenza e dei Trapianti di Organi	PoC MISE	Maria Grano	Development of an exercise-mimetic drug for the treatment and prevention of Osteoporosis							X								
19	**METHOD FOR DETERMINING THE MODAL PARAMETERS OF ROAD OR RAIL VEHICLES AND FOR THE INDIRECT CHARACTERIZATION OF ROAD OR RAIL PROFILES VARI ASSI**	POLITECNICO DI BARI	Dipartimento di Meccanica, Matematica e Management	PoC MISE	Leonardo Soria	Method for the identification of modal parameters (resonance frequencies, damping factors, and modal vectors) of a road or rail vehicle in steady operation, by a smart processing of the outputs of the system (displacements, velocities, or accelerations), measured in defined sensor locations.												X			
20	**Brevetto in Europa ex PCT convalidato in Gran Bretagna e Germania "Selective Agonists of beta-adrenergic type 3 receptors (BAR3) and use thereof / Agonisti selettivi dei recettori beta-adrenergici di tipo 3 (BAR3) e loro impiego" - Brevetto in USA ex PCT**	UNIVERSITÀ DI BARI ALDO MORO	Bioscienze, Biotecnologie e Biofarmaceutica	PoC MISE	Giuseppe Procino	A novel method to cure Nephrogenic Diabetes Insipidus using an agonist of the beta-3 adrenoreceptors.							X								
21	**Brevetto in Italia "Metodo molecolare finalizzato all'autenticazione di pani tradizionali/tipici ottenuti con lievito naturale , primer utilizzati nel detto metodo e kit contenente detti primer"**	UNIVERSITÀ DI BARI ALDO MORO	Scienze del Suolo, della Pianta e degli Alimenti	PoC MISE	Erica Pontonio	Methods for the authentication of traditional/typical breads through the detection and quantify the DNA of lactic acid bacteria possibly present in the bread.															X
22	**Group 3 metal compounds and use thereof in the treatment of solid tumors**	UNIVERSITÀ DI SALERNO	Chimica e Biologia	PoC MISE	Pasquale Longo	New organometallic derivatives of scandium and yttrium with cyclopentadienyl binders are been synthesized and tested as anticancer agents							X								
23	**Hydroxybenzene derivatives having a N-aryl substitute imino group and use thereof in the treatment of solid tumours**	UNIVERSITÀ DI SALERNO	Chimica e Biologia	PoC MISE	Pasquale Longo	We have identified a class of molecules (having hydroxyl, imino and carboxylic functionalities) to be used in the treatment of solid tumours.							X								
24	**Method and system for obtaining reference signals for vehicles controlo systems and corresponding control system**	UNIVERSITÀ DI SALERNO	Ingegneria Industriale	PoC MISE	Cesare Pianese	Speed-profile optimization for electric vehicles' autonomy maximization												X			
25	**Sistema di costruzione modulare**	UNIVERSITÀ DI SALERNO	Ingegneria Civile	PoC MISE	Enrico Sicignano	A modular construction system for prefabricated buildings, based on the use of a modular construction panel for lightweight prefabricated buildings, as well as a corresponding assembly method.											X				
26	**Metodo per la lavorazione di lamine e giunti elastici sottili, in in particolare per la realizzazione di oscillatori meccanici monolitici**	UNIVERSITÀ DI SALERNO	Medicina, Chirurgia e Odontoiatria "Scuola Medica Salernitana"	PoC MISE	Fabrizio Barone	The invention introduces a methodology for manufacturing thin sheets and elastic joints (thickness down to 50 um) by means of milling machining.										X					
27	**Dispositivo di filtrazione**	UNIVERSITÀ DI SALERNO	Ingegneria Civile	PoC MISE	Giacomo Viccione	The conceived device is made of a central PP element covered with a thin-layered inert cotton and surrounded by grain elements to distribute head losses and lengthen life cycle														X	

28	**Composizione per il trattamento di lesioni cutanee**	UNIVERSITÀ DI SALERNO	Farmacia	PoC MISE	Antnello Petrella	Composition based on the protein lactoferrin and the mesoglycan, a natural mixture of glycosaminoglycans, for the treatment of skin lesions of different kinds and degrees.							X										
29	**Metodo e gruppo di regolazione di un sistema frigorifero -**	UNIVERSITÀ DI SALERNO	Ingegneria Industriale	PoC MISE	Angelo Maiorino	To make refrigerators efficient without resorting to expensive and complicated instruments, but only by using intelligence, the artificial one													X				
30	**Realization of self-supporting curved structural elements by lifting**	UNIVERSITÀ DEL SALENTO		PoC MISE	Aniello Cascardi Micelli	The invention is addressed to the construction industry, by providing a new fast, clean and easy procedure to build curved structures such as arches.											X						
31	**MOLECULARLY IMPRINTED POLYMERS SPECIFIC FOR L-KYNURENINE, PROCESS FOR THEIR PREPARATION AND PROCESS FOR THE EXTRACTION OF L-KYNURENINE FROM BIOLOGICAL FLUIDS**	UNIVERSITÀ DEL SALENTO	Ingegneria dell'Innovazione	PoC MISE	Roberta Del Sole	Development of miniaturized L-Kynurenine Screen printed electrode for fast detection of L-Kynurenine in biological fluids							X										
32	**System with Multicolor amplified spontaneous emission**	UNIVERSITÀ DEL SALENTO		PoC MISE	Anni Lattante	The invention consists in the development of a method for the realization of ASE and LASER light sources emitting simultaneously at least to distinct colors, by combining a uniform active layer of the material emitting at the firt color and a second active material with emission at a different color, with a controlled aggregation at the micrometric scale.			X														
33	**Electrospun fibers for the growth and productivity increase of microorganisms**	UNIVERSITÀ DEL SALENTO		PoC MISE	Pietro Alifano	The present invention describes a method for increasing the productivity of antibiotics and other secondary metabolites by these microorganisms by using electrospun fibers as structural supports for their cultivation in both liquid and solid media.							X										
34	**AZA-TANSHINONE DERIVATIVES, PROCESS FOR THEIR PREPARATION AND THEIR USE IN THERAPY**	UNIVERSITÀ DI NAPOLI FEDERICO II	Farmacia	PoC MISE	Luciana Marinelli (Caricato da Arcangelo Barbato)	Object of the present invention are new aza-tanshinone derivatives, a method for their preparation and their use in therapy, particularly, but not limited to, as anti-tumor agents and anti-inflammatories. The invention comprises also the pharmaceutical compositions containing them.							X										
35	**Device with method for monitoring, management and risk prevention of chronic polypathological patients**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria elettrica e delle Tecnologie dell'Informazione - Dipartimento di Sanità Pubblica	PoC MISE	Stefania Santini	The present invention refers to the field of decision support systems in the medical field and more precisely to an equipment which, through the processing of clinical data, allows the monitoring, the informalized management of the patient's state of health and the prevention of clinical risk								X									
36	**Geni responsabili della suscettibilità all'oidio**	UNIVERSITÀ DI NAPOLI FEDERICO II	Agraria	PoC MISE	Giuseppe Andolfo (Caricato da Arcangelo Barbato)	The present invention refers to the genes responsible for susceptibility to White Sickness (Oidium) infection in plants belonging to the Cucurbitaceae family and their use in methods of selection / identification of plants susceptible or resistant to Oidium infection.							X										X
37	**Benzimidazole analogues and related methods**	UNIVERSITÀ DI NAPOLI FEDERICO II	Medicina molecolare e Biotecnologie mediche	PoC MISE	Massimo Santoro (Caricato da Arcangelo Barbato)	The invention relates to compounds of the formula (VIII) wherein the moieties R1, R2, R3, R4, and R5 are as defined in the specification, and salts thereof, as well as their use, methods of use for them, methods of their synthesis, and the like. The compounds are protein tyrosine kinase inhibitors and							X										
38	**EQUIPMENT FOR TWO-DIMENSIONAL PHOTONIC SIMULATION BY MEANS OF PANCHARATNAM-BERRY PHASE LAMINES**	UNIVERSITÀ DI NAPOLI FEDERICO II	Fisica	PoC MISE	Filippo Cardano (Caricato da Arcangelo Barbato)	The present invention concerns in general the techniques for performing photonic simulation of two-dimensional physical systems. In particular, the simulations are mainly based on the implementation of so-called "quantum walks" of the photons of light in a two-dimensional space.			X														
39	**METHOD FOR GENERATING REDUNDANT CONFIGURATION IN FPGASO**	UNIVERSITÀ DI NAPOLI FEDERICO II	Fisica	PoC MISE	Giordano Raffaele (Caricato da Arcangelo Barbato)	The present invention generally relates to Field Programmable Gate Arrays (FPGAs) and more particularly to techniques for generating redundant configuration within those FPGA devices. The redundant configuration can be exploited by properly-devised circuits for detecting and correcting upsets in the configuration memory and mitigating their effects on the implemented functionality.			X														
40	**LAPAROSCOPIC INSTRUMENT ABLE TO IMPLEMENT A ROTATION MOTOR OF A SUTURE NEEDLE**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria elettrica e delle Tecnologie dell'Informazione	PoC MISE	Ficuciello Fanny	The present invention relates to a laparoscopic instrument capable of perform a rotational motion of a suture needle, in particular equipped with a terminal effector capable of grasping and rolling an object						X										
41	**Purely analog optoelectronic interrogation system for optical fiber sensors, fully compatible with the 4 – 20 mA standard**	UNIVERSITÀ DI NAPOLI FEDERICO II	Information Technology and Electrical Engineering	Brevetti non MISE	Vincenzo Romano Marazzo	The proposed system concerns in an innovative way to interrogate one or multiple optical fiber sensors with a fully analog optoelectronic circuit which can be directly embedded into a programmable logic controller (PLC) as a monitoring safety system, relying on the typical advantages of the optical fiber sensors (multiplexability, immunity to electromagnetic interferences and others). The optoelectronic circuit is mainly composed by an optical demultiplexer which leads the signal from the sensor, characterized by a wavelength shifting, to the variable gain analog circuit: the sensor spectrum is discretized by an array of photodetectors, transducing the wavelength shifting (function of the physical quantity to monitor) into an electrical signal which is then properly conditioned obtaining as output an analogical signal compatible with "4-20mA" standard.			X							x							
43	**Reconfigurable machining center**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria Chimica, dei Materiali e della Produzione industriale	Brevetti non MISE	Doriana Marilena D'Addona	The invention relates to machine tools for manufacturing. In particular, the new architecture, based on an innovative screw-nut coupling, allows the machine tool's bed axis to extend without any limit by coupling multiple beds									X								
44	**Modular frame structure for machine center**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria Chimica, dei Materiali e della Produzione industriale	Brevetti non MISE	Doriana Marilena D'Addona	The invention concerns a standardized and modular frame structure for work centers, such as reconfigurable machine tools, which integrates both the structural function to support the devices mounted on the work center as well as the distribution of the process fluids, e.g. metalcutting liquids or gases, necessary to carry out the machining processes performed by aforementioned devices.									X								

45	**Device and method to positioning a module of a modular basement of machine tools and the modular basement**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria Chimica, dei Materiali e della Produzione industriale	Brevetti non MISE	Doriana Marilena D'Addona	The invention claims a device comprising reference bulbs and one base support with adjustable feet in order to permit a precise positioning of one machine tool basement module relatively to another module.									X							
46	**Sensorized gripper for material handling**	UNIVERSITÀ VANVITELLI	Ingegneria	Brevetti non MISE	Ciro Natale	Sensorized gripper for material handling equipped with force/tactile sensors The proposed technology is based on a sensor similar to human touch, i.e., able to measure a distributed tactile map and the contact forces and moments at the same time, by means of suitable control algorithms.	X								X							
47	**A multimodal perception system for human-robot collaborative work cells**	UNIVERSITÀ VANVITELLI	Ingegneria	Brevetti non MISE	Ciro Natale	The proposed technology, based on Artificial Intelligence algorithms, monitors the work space in collaborative robotic work cells, where robots and human workers share the same work space and allows to control the robot speed depending on the position and intention of the human worker inside the work cell, in order to guarantee the safety of the workers.	X								X							
48	**Distributed sensors for acoustic measurements and liquid detection**	UNIVERSITÀ VANVITELLI	Ingegneria	Brevetti non MISE	Aldo Minardo	The proposal can improuve the performances of distributed acoustic sensors based on Rayleigh scattering in a large number of potential applications including oil&gas exploration, intrusion detection, structural health monitoring.		X								X				X		
49	**Physical and Chemical sensing by distributed optical fiber sensors**	UNIVERSITÀ VANVITELLI	Ingegneria	Brevetti non MISE	Aldo Minardo	The proposed technology is based on the use of stimulated Brillouin scattering in side- polished, or tapered optical fibers, in order to gain access to the evanescent part of the optical field inside the fiber. In such a way, the interaction of pump&probe lights inside the fiber becomes sensitive to the refractive index of the external medium, and, as such, to the chemical or biochemical interactions occurring into a transduction material.										X						
50	**Sensore ottico per la rilevazione della concentrazione di almeno una sostanza esplosiva in una soluzione acquosa e metodo di rilevazione che utilizza tale sensore**	UNIVERSITÀ VANVITELLI	Ingegneria	Brevetti non MISE	Nunzio Cennamo	La presente invenzione si riferisce ad un sensore ottico-chimico per la rilevazione della concentrazione di almeno una sostanza esplosiva in una soluzione acquosa, in particolare per la rilevazione di 2,4,6-trinitrotoluene (TNT).										X						
51	**Metodo per la rivelazione in linea della concentrazione di almeno un composto furanico e/o di suoi derivati nell'olio di trasformatori**	UNIVERSITÀ VANVITELLI	Ingegneria	Brevetti non MISE	Nunzio Cennamo	Optical chemical sensor for the specific detection of the furfural concentration in power transformer oil and a detection method using such a sensor.														X		
52	**MOLECULARLY IMPRINTED POLYMER, USES THEREOF AND PREPARATION PROCESS"**	UNIVERSITÀ VANVITELLI	Ingegneria	Brevetti non MISE	Nunzio Cennamo	A novel biomimetic receptor, based on a specific MOLECULARLY IMPRINTED POLYMER, and the relative optical chemical sensor for the specific detection of the PFAs concentration in water solutions and a detection method using such a sensor.										X						
53	**Sensore ottico, sistema di sensori e sistema di rilevazione per rilevare la presenza e/o la concentrazione di un analita in una soluzione, procedimento per la realizzazione di tale sensore ottico**	UNIVERSITÀ VANVITELLI	Ingegneria	Brevetti non MISE	Nunzio Cennamo	Innovative integrated optical sensor system for the specific detection of an analyte in water solutions: procedure for the implementation of such optical sensor.										X						
54	**Guiding system for the insertion of a medical needle**	UNIVERSITÀ DEL SANNIO	Ingegneria	Brevetti non MISE	Alberto Micco	A guiding system that support the insertion of a medical needle into human body, in particular for epidural anesthesia.						X										
55	**Method and system for real-time determination of characteristics of radio-chromic films**	UNIVERSITÀ DEL SANNIO	Ingegneria	Brevetti non MISE	Patrizio Vaiano	The invention relates to a method based on an opto-electronic instrumentation for the real-time reading of radiochromic films for dosimetry purposes.					X											
56	**Glutamine synthetase inhibitors in cancer**	UNIVERSITÀ DI BARI ALDO MORO	Bioscienze Biotecnologie e Biofarmaceutica	Brevetti non MISE	Alessandra Castegna	A novel class of metabolic immunotherapic agents to counteract metastatic burden in cancer							X									
57	**DEVICE AND PROCESS FOR THE CONTEMPORARY CAPTURE OF STANDARD AND PLENOPTIC IMAGES**	UNIVERSITÀ DI BARI ALDO MORO	Fisica	Brevetti non MISE	Milena D'Angelo	The present invention, which is connected to Patent MISE n. 17, allows to perform with the same apparatus both the plenoptic image, as provided by CPI, and the conventional image of the scene, as it would be provided by a conventional imaging device (camera, microscope, etc.).		X	X		X											
58	**PROCESS AND APPARATUS FOR THE CAPTURE OF PLENOPTIC IMAGES BETWEEN ARBITRARY PLANES**	UNIVERSITÀ DI BARI ALDO MORO	Fisica	Brevetti non MISE	Milena D'Angelo	The invention, which is connected to Patent MISE n. 17 and patent non MISE n. 57, is based on the concept of "CPI between arbitrary planes"- The two sensors provide images of two different planes arbitrarily chosen within the 3D scene of interest.		X	X		X											
59	**Nuovo Utilizzo degli Inibitori della Monoammino Ossidasi B**	UNIVERSITÀ DI BARI ALDO MORO - UNIVERSITÀ DEGLI STUDI DI PADOVA	Scienze Biomediche (Bioscienze Biotecnologie e Biofarmaceutica)	Brevetti non MISE	Alessandra Castegna	A novel way to treat autoinflammatory and autoimmune diseases							X									
60	**Optogenic Tool For Multiple and Independently Addressing Of Patterned Optical Windows**	ISTITUTO ITALIANO DI TECNOLOGIA	Center for Biomolecular Nanotechnologies - LECCE	Brevetti A.C.	Ferruccio Pisanello	The present invention relates to a multi-point light-delivering device, comprising a waveguide carrying light along a longitudinal axis and including multiple optical windows, through which the carried light is out-coupled from the waveguide. Such a device may be used as an optogenetic tool to be exploited both for in-vitro experiments with neuronal tissues and for in-vivo experiments or medical applications.					X	X										
61	**System And Method For Axially Resolved Light Collection From A Tapered Waveguide**	ISTITUTO ITALIANO DI TECNOLOGIA	Center for Biomolecular Nanotechnologies - LECCE	Brevetti A.C.	Ferruccio Pisanello	The invention describes a system for in vivo and in tissue depth-resolved optical spectroscopy based on a minimally invasive, single-waveguide probe capable of collecting light from adjacent regions of a turbid medium, such as a living tissue, over a few millimiters of total tissue depth.					X	X										
62	**Innovative on-line control system for both hard tissue and bone**	UNIVERSITÀ DEL SANNIO	Ingegneria	Brevetti A.C.	Martino Giaquinto	The invention consists in a new device that allows for an on line and real time control of the depth of a hole drilled in a bone.						X										
63	**Bar codes and QRcodes for a low cost wireless sensor for structural, medical and environmental monitoring**	UNIVERSITÀ DEL SANNIO	Ingegneria	Brevetti A.C.	Francesco Bruno	The invention describes a new device useful to inspect the health of either a construction or a mechanical piece by simple using a mobile phone										X						

64	**PPG in transmission mode acquired on the wrist**	UNIVERSITY OF PALERMO	Ingegneria	Brevetti A.C.	* caricato da FR&I	The proposed proof-of- concept is a novel system able to acquire PPG signals in transmission-mode also on the wrist. This has been made possible thanks to two important innovations, i.e. the use of (i) Silicon Photomultiplier (SiPM) detectors (provided by STMicroelectronics) having high responsivity and gain mounted on the PPG probes, and (ii) an analogue front end (provided by Texas Instruments) with 24-bit resolution for data acquisition.					X												
65	**OPTICAL FIBER AND DEVICE FOR RELEASING MOLECULES**	UNIVERSITÀ DEL SANNIO	Ingegneria	Brevetti A.C.	Anna Aliberti	The invention describes a new optical fiber-based device useful to delivery drug of interest with higher spatial and temporal control.						X	X										
66	**SMART ENERGY METER WITH DIAGNOSTIC CAPABILITIES AND NETWORKING IMPROVEMENT**	UNIVERSITÀ DI NAPOLI FEDERICO II	Information Technology and Electrical Engineering	Brevetti A.C.	Andrea Irace	The Smart Meter for present and future Smart Grid applications. With ad-hoc networking capabilities it enhances self-diagnostics of the network without the need of a hierarchical structure.														X		
67	**NEEDLE OR CATHETER INTEGRATED WITH A PLURALITY OF OPTICAL FIBERS**	UNIVERSITÀ DEL SANNIO	Ingegneria	Brevetti A.C.	Marco Consales	A needle/catheter system for medical use, within whose lumen several sensorized optical fibers are integrated, each of which is capable of performing a specific function						X										
68	**A device for ultrasonic treatment of cancer tissue**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria elettrica e delle tecnologie dell'informazione	Brevetti A.C.	Antonello Cutolo	The invention relates to the integration of new approach for cancer therapy inside the hospital in the needle. It integrates the selective ultrasound destruction of cancer cell inside a needle.						X										
69	**Optical Bio-chemical Sensor Systems**	UNIVERSITÀ VANVITELLI	Ingegneria	Tecnologie / Piattaforme	Nunzio Cennamo	Low-cost and small size Optical biosensor system for the specific detection of the concentration of substances in water solution.		X			X										X	
70	**CNOS Center (NANOPHOTONIC CENTER FOR INDUSTRIAL AND MEDICAL APPLICATIONS)**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria elettrica e delle tecnologie dell'informazione	Tecnologie / Piattaforme	Antonello Cutolo	The CNOS center is a multidisciplinary laboratory for photonics applications for medical and industrial applications.					X					X					X	
71	**Kubic FLOTAC Microscope (KFM) - innovative digital microscope for an automated parasitological diagnosis in humans and animals**	UNIVERSITÀ DI NAPOLI FEDERICO II	Medicina Veterinaria e Produzioni Animali	Tecnologie / Piattaforme	Alessandra Amadesi	The Kubic FLOTAC Microscope (KFM) is an innovative digital microscope for the automation of parasitological diagnosis in humans and animals					X											
72	**INNOVATIVE VALUE CHAIN DESIGN PLATOFORM APPLIED TO AGROINDUSTRIAL BYPRODUCTS"**	UNIVERSITÀ DI BARI ALDO MORO	Bioscienze Biotecnologie e Biofarmaceutica	Tecnologie / Piattaforme	Isabella Pisano	BIOREFINERY APPROACHES APPLIED TO AGROINDUSTRIAL WASTES FOR THEIR VALORIZATION INTO VALUE-ADDED BIOBASED PRODUCTS																X
73	**Recombinant proteins biosynthesis using cell-free system (CF)**	UNIVERSITÀ DI BARI ALDO MORO	Bioscienze Biotecnologie e Biofarmaceutica	Tecnologie / Piattaforme	Marilina Florio	Cell-free system is an innovative technique which allows the expression of recombinant proteins using the biomolecular translation machinery extracted from cells.							X									
74	**BIOINSPIRED MICROPATTERNED ADHESIVE PATCHES FOR ROUGH SURFACES**	ISTITUTO ITALIANO DI TECNOLOGIA	Center for Micro-BioRobotics	Tecnologie / Piattaforme	Barbara Mazzolai	The prototypes provide a novel multifunctional tool for directional and reversible attachment on rough surfaces (i.e. skin tissues, looped and woven fabrics and plant leaves). The prototypes consist of an array of micro-hooks and can be produced at large scale and at different dimensions by combining different microfabrication techniques (direct printing, molding and casting)						X										
75	**HYBRID SYSTEM FOR GENERATING ELECTRICITY WITH PLANTS**	ISTITUTO ITALIANO DI TECNOLOGIA	Center for Micro-BioRobotics	Tecnologie / Piattaforme	Barbara Mazzolai	The innovation provides a unique system capable of using plants to convert mechanical energy into electricity such as from plant leaf/branch motion in the wind (natural, air blast from cars, trains etc.) or through touching the leaves.										X				X		
76	**Minimally Invasive Technique to Induce Cancer Ablation (MITICA)**	UNIVERSITÀ CAMPUS BIO-MEDICO ROMA	Ingegneria	Tecnologie / Piattaforme	Emiliano Schena	A novel technological platform for real-time 3D damaged volume reconstruction to improve clinical outcomes of minimally invasive thermal treatments.						X										
77	**Profacere srl**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria Chimica, dei Materiali e della Produzione industriale (Unina)	Spin-off/Startup	Doriana Marilena D'Addona	ProFacere Reconfigurable Machine Tools is a machine tools easily modifiable by changing its design to provide diverse processing technologies, different working volume dimension.												X				
78	**Often Medical**	UNIVERSITÀ DEL SANNIO	Ingegneria (Unisannio)	Spin-off/Startup	Alberto Micco	Epidural anesthesia is still considered a challenging procedure, characterized by failure rates up to 30% due to the fact that anesthesiologists still adopt manual and 'blind' approaches. Often Medical, a research spin-off of the University of Sannio, has the objective to commercialize an innovative device, based on on their expertise on optical fiber sensors technology, that cancel completely the failure sources.						X										
79	**OPTOSMART s.r.l.**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria	Spin-off/Startup	Antonello Cutolo	The company designs, constructs and installs optical fiber sensors										X						
80	**Moresense srl**	UNIVERSITÀ VANVITELLI	Ingegneria	Spin-off/Startup	Nunzio Cennamo	Design and development of Optical Biosensors		X								X				X		
81	**Quavlive srl**	POLITECNICO DI BARI	Ingegneria Elettrica e dell'informazione	Spin-off/Startup	Saverio Mascolo	The main product of the company is QuavStreams, an innovative video streaming platform				X												
82	**Natural Intelligent Technologies srl**	UNIVERSITÀ DI SALERNO	Ingegneria dell'Informazione e Matematica Applicata	Spin-off/Startup	Adolfo Santoro	Natural Intelligent Technologies is a spin-off company from University of Salerno, that provides innovative software technologies and advanced skills in ICT sector of Artificial Intelligence and Pattern Recognition for automatic digital document processing, especially handwritten digital documents	X	X														
83	**RIATLAS srl**	UNIVERSITÀ DI SALERNO	Scienze aziendali, management e innovation systems	Spin-off/Startup	Luca Romanelli	RiAtlas Oncology is an all-in-one solution providing decision-making and patient engagement support for a remote monitoring of patient with colorectal cancer in the Continuum of care.								X								
84	**MinervaS s.r.l.**	UNIVERSITÀ DI SALERNO	Ingegneria Industriale	Spin-off/Startup	Ennio Andrea Adinolfi	ADAS Speed-advisor for heavy-duty trucks able to optimize fuel consumption and emissions by the analysis of route information (e.g. elevation).											X					
85	**IeSAC – Innovative Engineering Systems for Advanced Company s.r.l.**	UNIVERSITÀ VANVITELLI		Spin-off/Startup	Marcello Fera	IeSAC s.r.l. is an academic spin--off of the University of Campania Luigi Vanvitelli, located in Aversa. The company offers new engineering services based on the application of innovative methods of design, optimization and performance validation of products and production systems through advanced virtual modeling/simulation techniques.	X															
86	**QPI-Systems**	UNIVERSITÀ DI BARI ALDO MORO	Fisica	Spin-off/Startup	Milena D'Angelo	QPI-Systems is a spin-off company aimed at placing on the market the know-how developed within the Quantum Optical Technologies 2.0 Lab (Lab QuOT 2.0) of the Physics Department of the University of Bari.		X	X		X											

87	**Green Tech Solution Srl**	UNIVERSITÀ DI NAPOLI FEDERICO II	Ingegneria Aerospaziale	Spin-off/Startup	Emanuele Della Volpe	The Company provides integrated solutions in unmanned and collaborative smart vehicles, smart drones and smart systems applications. It owns a proprietary approach and platform integrating optical, acoustics sensors, vision system and measuring unit to catch and manage big data from the environments exploiting IT cloud layers and AI-based algorithms. The company is built on proprietary strategy and optimization approach to automate the process of environmental monitoring including specific missions to exploit specific function. The core approch is to exploit drones to drive the operations of bot working in the ground field or in water.									X					X	X
88	**Immunoveg**	UNIVERSITÀ DI NAPOLI FEDERICO II Biostructure and Bioimaging Institute del CNR (CNR/IBB) Institute of plant genetics del CNR (CNR/IBBR)	Department of Agriculture and Department of Veterinary Medicine and Animal Production	Spin-off/Startup	Antonio Di Loria	ImmunoVeg is inspired to provide, with plants, safe and bioactive elements able to improve and maintain the health status and wellness in humans and animals.							X										X
89	**NeGaNet**	UNIVERSITÀ DI SALERNO	Industrial Engineering Department & IT Department	Spin-off/Startup	Pietro D'Alessio	The spin off is dedicated to the development and commercial exploitation of a SMART electronic kit interconnected to an IoT network which aims to solve the problems of inefficiency related to separate waste collection															X		
90	**MaTOX**	UNIVERSITÀ DI SALERNO	Department of Medicine, Surgery and Dentistry "Schola Medica Salernitana"	Spin-off/Startup	Charlier Bruno	The spin off is aimed to the commercial exploitation of a novel kit for the detection of chemical contaminants on surfaces based on wipe test method and liquid chromatography tandem mass spectrometry						X											
91	**ToHuerta**	UNIVERSITÀ DI SALERNO	Department of Computers Scienc	Spin-off/Startup	Romano Marco	ToHuerta è una piattaforma di orti in condivisione, basata sui principi della sharing economy, un social network che, come gli altri social network, ha l'obbiettivo di far sviluppare interazioni fra utenti.																	X
92	**BluLite**	UNIVERSITÀ DI NAPOLI FEDERICO II	Department of Chemical, Materials and Production Engineering (DICMaPI)	Spin-off/Startup	Campanile Assunta	The proposed spin off is aimed to the commercial exploitation of a method to produce innovative pigments. It consists in using zeolites, microporous inorganic materials with a high specific surface, to accommodate specific chromophore agents (in this case cobalt) and stabilize them through low temperature heat treatments (below 1000 °C). This process is economically advantageous, easily reproducible and sustainable, as it is possible to use small quantities of cobalt (with the same colour rendering) and considerably lower temperatures than traditional techniques.														X		